Think Critically
Definition: Critical thinking is an evaluation process that involves questioning, gathering, and analyzing opinions and information relevant to the topic or problem under consideration. Critical thinking can be applied to all subject areas and modes of analysis (historical, mathematical, social, psychological, scientific, aesthetic, literary, etc.). Students who think critically:

- Identify and define key issues
- Determine information needed, find and cite relevant information
- Demonstrate knowledge of the context and complexity of the issue
- Integrate other relevant points of view of the issue
- Evaluate supporting information and evidence
- Construct appropriate and defensible reasoning to draw conclusions

Engage Diverse Values with Civic and Ethical Awareness
Definition: Engaged students actively participate as citizens of local, global and digital communities. Engaging requires recognizing and evaluating one's own views and the views of others. Engaged students are alert to how views and values impact individuals, circumstances, environments and communities. Students who engage:

- Recognize and clarify personal values and perspectives
- Evaluate diverse values and perspectives of others
- Describe the impact of diverse values and perspectives on individuals, communities, and the world
- Demonstrate knowledge of democratic values and practices
- Collaborate with others to achieve shared goals

Create Ideas and Solutions
Definition: Creative thinking is the ability and capacity to create new ideas, images and solutions, and combine and move ideas to new situations to solve problems or create ideas and solutions. Critical thinking can be applied to all subject areas and modes of analysis (historical, mathematical, social, psychological, scientific, aesthetic, literary, etc.). Students who create:

- Experiment with possibilities that move beyond traditional ideas or solutions. Embark ambiguity and risk mistakes
- Explore or resolve innovative and/or divergent ideas and directions, including contradictory ideas
- Utilize technology to adapt to and create new media
- Invent or hypothesize new variations on a theme, unique solutions or products; transform and revise solution or project to completion
- Persist when faced with difficulties, resistance, or errors; assess failures or mistakes and rework
- Reflect on successes, failures, and obstacles

Communicate Effectively
Definition: To communicate effectively, students must be able to interact with diverse individuals and groups, and in many contexts of communication, from face-to-face to digital. Elements of effective communication vary by speaker, audience, purpose, language, culture, topic, and context. Effective communicators value and practice honesty and respect for others, exerting the effort required to listen and interact productively. Students who communicate effectively:

- Select an effective and appropriate medium (such as face-to-face, written, broadcast, or digital) for conveying the message
- Create and express messages with clear language and nonverbal forms appropriate to the audience and cultural context
- Organize the message to adapt to cultural norms, audience, purpose, and medium
- Support assertions with contextually appropriate and accurate reasons, graphics, and quantitative information
- Attend to messages, check for shared meaning, identify sources of misunderstanding, and signal comprehension or non-comprehension
- Demonstrate honesty, openness to alternative views, and respect for others’ freedom to dissent

Apply Learning
Definition: Applied learning occurs when students use their knowledge and skills to solve problems, often in new contexts. When students also reflect on their experiences, they deepen their learning. By applying learning, students act on their knowledge. Students who apply learning:

- Connect theory and practice to develop skills, deepen understanding of fields of study and broader perspectives
- Use skills, abilities, theories or methodologies gained in one situation to solve problems or problems or explore issues
- Use mathematics and quantitative reasoning to solve problems
- Integrate and reflect on experiences and learning from multiple and diverse contexts

Think • Engage • Create • Communicate • Apply

Strategic Directions
Lane transforms students’ lives through learning

- We acknowledge that students occupy many roles, including those of family members, workers, members of social groups, and citizens of an increasingly interconnected world.
- We provide educational experiences, support services and institutional structures that enhance student learning and success.
- In our work in and outside of the classroom, and in our daily interactions with students and one another, we aim to empower all students; we encourage students to grow, to take risks, and to assume responsibility for succeeding in all aspects of their lives.

A Liberal Education Approach for Student Learning
Equip students to become global citizens with the broad knowledge and transferable skills characterizing a liberal education approach

A Liberal Education Approach for Student Learning
Equip students to become global citizens with the broad knowledge and transferable skills characterizing a liberal education approach

- Expand application of the liberal education approach throughout the college’s programs and services

Optional Student Preparation, Progression and Completion
- Promote students’ progression to goal completion by knowing our students and creating needed systems, processes and learning environments
- Support academically underprepared students’ progression to college-level coursework by providing them with foundational skills, classes and support

Online Learning and Educational Resources
- Build capacity in faculty and staff to create high-quality, sustainable and innovative online learning and educational resources
- Provide the required tools, infrastructure and professional development to use emerging technologies for expanding online learning and educational resources
- Explore the effectiveness of online learning and educational resources

A Sustainable Learning and Working Environment
Build understanding of sustainable ecological, social and economic systems and practices among the college communities

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Build understanding of sustainable ecological, social and economic systems and practices among the college communities

- Apply principles of sustainable economics, resource use, and social institutions to Lane’s learning and working environments

A Diverse and Inclusive Learning and Working Environment
- Create a diverse and inclusive learning college
- Develop institutional capacity to respond effectively and respectfully to students, staff and community members of all cultures, languages, classes, races, genders, ethnic backgrounds, religious beliefs, sexual orientations, and abilities

A Safe Learning and Working Environment
- Maintain a safe learning and working environment
- Improve practices and resources that secure property
- Promote activities, practices and processes that encourage civil discourse and protect college communities from discrimination, harassment, threats, and harm

Core Theme 4: Lifelong Learning
Strategically growing learning opportunities

Core Theme 4: Lifelong Learning
Strategically growing learning opportunities

- Minimizing financial, geographical, environmental, social, and modes of analysis (historical, mathematical, social, psychological, scientific, aesthetic, literary, etc.). Students who think critically:

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- Determine information needed, find and cite relevant information
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- Integrate other relevant points of view of the issue
- Evaluate supporting information and evidence
- Construct appropriate and defensible reasoning to draw conclusions

Environmental, technological and demographic changes
- Technological change

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- Demonstrate knowledge of democratic values and practices
- Collaborate with others to achieve shared goals

Create Ideas and Solutions
Definition: Creative thinking is the ability and capacity to create new ideas, images and solutions, and combine and recombine existing images and solutions. In this process, students use theory, embrace ambiguity, take risks, test for validity, generate new perspectives, and persist with the problem when faced with resistance, obstacles, errors, and the possibility of failure. Students who create:

- Experiment with possibilities that move beyond traditional ideas or solutions. Embark ambiguity and risk mistakes
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- Use mathematics and quantitative reasoning to solve problems
- Integrate and reflect on experiences and learning from multiple and diverse contexts

Lane Community College is committed to providing a working and learning environment that is free from discrimination, harassment and retaliation. Lane is committed to equal opportunity in education and employment, affirmative action, diversity, and compliance with the Americans with Disabilities Act. The college prohibits discrimination in admissions, employment and access to college programs, activities and services on the basis of race, color, national origin, sex, marital status, familial relationship, sexual orientation, pregnancy, age, disability, religion, prior juvenile record, or veterans’ status. This commitment is made by the college in accordance with federal, state, and local laws and regulations. Inquiries may be directed to the Chief Human Resource Officer, Lane Community College, 4000 East 30th Avenue, Eugene, Oregon 97405-0490, 541.463.5585. Inquiries regarding Title IX may be directed to the Women’s Program Director, Building 1, Room 208, 541.463.3010 or Donna Carr, Chief Human Resource Officer and Section 504 Coordinator, Building 3, Room 114, 541.463.5585.
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This information is available in an alternate format upon request by contacting Disability Resources: 541.463.5150 (voice) TTY Relay: 711 email: disabilityresources@lanecc.edu

This catalog is published for informational purposes and every effort is made to insure accuracy at the time of printing. However, the provisions in this catalog are not to be regarded as an irrevocable contract between the student and the college. Lane Community College reserves the right to change any provision or requirement at any time. Students are advised to study the class schedule and to work closely with a counselor or advisor.

This catalog was prepared with assistance from: Angela Miller, editor; Mary Brau, coordinator of student outcomes assessment and curriculum development; Melanie Brown, curriculum specialist; Neil Isaacson, graphic designer; Cover design by Funk/Levis and Associates.
Summer Term 2013 (session 201410)
Registration begins* May 6—9—7 a.m.
Open registration begins* June 4—7 a.m.
Summer term books available June 17
Summer term classes begin June 24
Independence Day observed, college closed July 4
First four-week session June 24—July 20
First six-week session June 24—August 3
Eight-week session June 24—August 17
Twelve-week session June 24—September 14
Second four-week session July 22—August 17
Second six-week session August 5—September 14
Third four-week session August 19—September 14
Labor Day, college closed September 2

Fall Term 2013 (session 201420)
Registration begins* May 20—23—7 a.m.
Open registration begins* September 9—7 a.m.
Fall term books available September 16
Inservice, college closed September 26
Fall term classes begin September 30
Last day to receive a tuition refund October 31—11:59 p.m.
Veterans’ Day, college closed November 11
Last day for schedule changes November 22
Thanksgiving weekend, college closed November 28—December 1
Finals week December 9—14
Fall term ends December 14
Winter break December 15—January 5

Winter Term 2014 (session 201430)
Registration begins* November 4—7—7 a.m.
Open registration begins* December 10—7 a.m.
New Year’s Day observed, college closed January 1
Winter term books available December 30
Winter term classes begin January 6
Last day to receive a tuition refund January 12, —11:59 p.m.
Martin Luther King Day, college closed January 20
Presidents’ Day, college closed February 17
Last day for schedule changes February 28
Finals week March 17—22
Winter term ends March 22
Spring break March 23—30

Spring Term 2014 (session 201440)
Registration begins* February 10—13—7 a.m.
Open registration begins* March 11—7 a.m.
Spring term books available March 24
Spring term classes begin March 31
Last day to receive a tuition refund April 6—11:59 p.m.
Inservice, college closed May 2
Last day for schedule changes May 23
Memorial Day, college closed May 26
Finals week June 9—14
Spring term ends June 14
Graduation June 14

*For detailed registration information, visit lanecc.edu/calendars /registration-calendar.

Taking a class at Lane is easy!
Watch the Getting Started at Lane YouTube video at youtube.com/lanetuberscafe by entering the “Taking a Class at Lane is Easy” in the search box.

Lane Tubers Cafe
Welcome to Lane Community College, a great place to start your college education or train for a career. At Lane you can achieve your dreams—earn a transfer degree, skill up for the workplace, gain basic academic skills, start a business, or pursue lifelong learning.

Whatever your goal, it’s important to stay on course and complete your studies. A degree or certificate matters – for your own personal prospects and for the viability of our economy and democracy. A college credential from Lane will give you a competitive edge in the workplace, increase your earning potential, and prepare you for an advanced degree at much less cost.

Lane welcomes all who desire to learn. We recognize that education is a right, not a privilege, and you need a good education to succeed in a challenging world.

Nearly 37,000 students a year seize the opportunities at Lane—open admission, lower tuition and fees, flexible scheduling, outstanding facilities, experienced and passionate faculty, individualized attention, student services, cultural opportunities, and most of all, quality programs.

You can choose from more than 100 academic transfer subjects and more than 50 professional degrees and certificates. All of our credit programs meet rigorous academic standards and many have earned prestigious special accreditations.

Nationally known for excellence, Lane is the only Oregon college in the international League for Innovation in the Community College. We are engaged in the national Achieving the Dream project and other initiatives focused on your success.

We are prepared to help you achieve your goals. Student success starts here.

Sincerely,

Mary Spilde, President
About Lane Community College

Lane is a comprehensive community college dedicated to providing accessible, high quality, affordable, lifelong education. The college offers dozens of credit and noncredit programs.

Lane serves a population of approximately 354,000 people within a 5,000-square-mile area stretching from the Pacific Ocean to the Cascade Mountains.

The district includes most of Lane County, Monroe Elementary School District in Benton County, Harrisburg Union High School District in Linn County, and a small area in northern Douglas County. The college is governed by a seven-member elected board.

In addition to the main campus in south Eugene, the college has centers at Florence, Cottage Grove, downtown Eugene, and the Eugene Airport.

Enrollment

During the 2011-12 academic year, 38,671 students enrolled in Lane Community College classes. The average age for all students was 35 years.

Accreditation, Certificates and Affiliations

Lane is accredited by the Northwest Commission on Colleges and Universities, 8060 165th Avenue N.E., Suite 100, Redmond, WA 98052. The Commission is an institutional accrediting body recognized by the Council for Higher Education Accreditation and/or the U.S. Department of Education. Related regional accreditation documents are on reserve in the college library.

Individual Lane programs are evaluated for quality by numerous vocational and professional accrediting associations, including:

- Automotive Technology, certified by the National Automotive Technicians Education Foundation, a non-profit foundation within the National Institute for Automotive Service Excellence
- Aviation Maintenance, approved under Part 147 of the Federal Aviation Regulations of the Federal Aviation Administration
- Culinary Arts, accredited by the American Culinary Federation Foundation Accrediting Commission, a specialized accrediting commission recognized by the Council for Higher Education Accreditation
- Dental Assisting, accredited by American Dental Association’s Commission on Dental Accreditation, a specialized accrediting board recognized by the U.S. Department of Education. The Commission may be contacted at 312.440.4653 or 211 East Chicago Avenue, Chicago, Illinois 60611
- Dental Hygiene, accredited by American Dental Association’s Commission on Dental Accreditation, a specialized accrediting board recognized by the U.S. Department of Education. The Commission may be contacted at 312.440.4653 or 211 East Chicago Avenue, Chicago, Illinois 60611
- Diesel Technology, evaluated and accredited by the Association of Equipment Distributors Foundation; membership: Northwest Diesel Industry Council and the Oregon Trucking Association
- Dietary Manager, approved by the Association of Nutrition and Food Service Professionals
- Energy Management, awarded Institute for Sustainable Power Quality accreditation credential from the Interstate Renewable Energy Council, International Standard #0102.1 for accreditation and certification of renewable energy training programs and instructors
- Exercise and Movement Science: The American College of Sports Medicine has endorsed the curriculum for Lane Community College’s Associate of Applied Science program.
- Flight Technology approved by the Federal Aviation Administration. Flight Technology is a Certified Part 141 approved training course and is the only flight school in the state of Oregon with FAA approved self-examining authority for Private Pilot, Commercial Pilot and Instrument Rating.
- Geospatial Information Science and Technology Endorsement of The National Geotech Center, Del Mar Community College.
- Hospitality Management, accredited by the Accreditation Commission for Programs in Hospitality Administration
- Medical Office Assistant, accredited by the Commission on Accreditation of Allied Health Education Programs, a specialized accrediting board recognized by the Council for Higher Education Accreditation, on recommendation of the Medical Assisting Education Review Board of the American Association of Medical Assistants Endowment. Commission on Accreditation of Allied Health Education Programs, 1361 Park Street, Clearwater, FL 33756, 727.210.2350
- Nursing, the Oregon State Board of Nursing, 17938 SW Upper Boones Ferry Rd., Portland, OR 97163-0685, oregon.gov/OSBN
- Physical Therapist Assistant, accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (CAPTE), 1111 N. Fairfax Street, Alexandria, VA 22134; phone: 703.706.3245; email: accreditation@apta.org; website: capteonline.org
- Paramedicine accredited by the Oregon Department of Education (ODE) or the Oregon State Board of Higher Education. The ODE uses the DHS/EMS administrative rules (OAR 333-285) and must meet the standards established by the ODE in OAR chapter 581, division 49. arcweb.sos.state.or.us/rules/OARS_500/OAR_581/581_049.html
- Practical Nursing, accredited by the Oregon State Board of Nursing (OSBN), 17938 SW Upper Boones Ferry Rd., Portland, OR 97163-0685, oregon.gov/OSBN
- Respiratory Care, accredited by the Commission on Accreditation for Respiratory Care, coarc.com

Awards

The college has earned national recognition for many of its instructional programs, services and administrative practices. Lane also is a member of the League for Innovation in the Community College and is an Achieving the Dream College.

Funding

Lane Community College is funded by local property taxes, state revenues, and tuition and fees. The 2011-12 General Fund budgeted resources are $93,691,967 of which 49 percent came from intergovernmental, 48 percent from tuition and mandatory fees, and 3 percent from other sources.

In November 2008, Lane county voters approved an $83 million 15 year bond. Funds are being used to update instructional facilities, equipment and technology at Lane. Work began summer 2009 with upgrades to roofing, central heating and cooling systems upgrades, and increased safety lighting.

The college also has a foundation which is an independent, non-profit corporation that raises funds to support programs for which tax monies are insufficient or unavailable.
How to Get Started at Lane

Who Can Attend Lane
In general, anyone 18 years or older may enroll in Lane Community College credit classes. A high school diploma is not required. Noncredit classes are generally open to persons 16 years or older. The college is dedicated to helping each student accomplish his or her immediate educational goals.

What Lane Has To Offer
Lane Community College offers lower division college courses, career technical training, precollege and skill development, cooperative programs with area high schools, career and life planning, services for businesses, continuing education, and cultural activities.

Credit Classes and Programs
Some of the courses offered at the college are for “credit.” Credit courses are designed to be transferable to other colleges or to be part of a career technical degree program. Information about credit program offerings begins on page 66.

Noncredit Community Education Classes
Noncredit courses are not transferable to Lane’s career technical degree programs or to other colleges. Information about these offerings begins on page 273.

Good Places to Start
Lane offers a variety of educational options which are designed to meet the needs of individuals at different stages of their lives and education. The following are good places to start.

AskLane Lane’s 24/7 online tool for finding answers to general questions related to attending Lane can be found as a search option at the top of each Lane webpage.

Catalog This catalog is produced annually in the spring and is available at no charge at college centers. It also is available through the mail for a small charge. To order a catalog, call the Titan Store Bookstore at 541.463.5256 or use the order form in the Community Education Class Schedule. The catalog also can be found on Lane’s Web site, lanecc.edu.

Lane’s catalog is published for informational purposes and every effort is made to insure accuracy at the time of printing. However, the provisions in this catalog are not to be regarded as an irrevocable contract between the student and the college. Lane Community College reserves the right to change any provision or requirement at any time. Students are advised to study the web class schedule and to work closely with a counselor or advisor. Students also are encouraged to see a counselor or advisor to have an evaluation done early in their programs of study to obtain the most accurate information on their program requirements.

Class schedule The online class schedule is available on the web at lanecc.edu about one week before registration begins. Registration usually begins the fourth week of the preceding term except fall term, which occurs the preceding spring term. The most current registration calendar can be found on Lane’s web site at lanecc.edu/calendars/registration-calendar.

The Community Education Class schedule which contains noncredit offerings is mailed to homes in the college district each term. Lane Community College at Florence also mails schedules specific to the Florence Center to Florence area residents.

Counseling and Advising Center Building 1, First Floor, Room 103, lanecc.edu/counseling, 541.463.3200, coundept@lanecc.edu

The Counseling and Advising Center assists students in planning and meeting their educational goals. The center provides academic advising, career advising and counseling, and retention counseling. Hours are Monday-Wednesday, 8 a.m.-5 p.m.; Thursday, 8 a.m.-4 p.m.; Friday, 8 a.m.-2 p.m. Summer term, Monday-Thursday, 9 a.m.-5 p.m.; Friday, hours vary.

For information about the center and other counseling services, see page 22.

Counseling services also are available at these off-campus centers: Lane Community College at Cottage Grove, 541.463.4202; and Lane Community College at Florence, 541.997.8444 or 541.463.4800.

Enrollment and Student Financial Services Building 1, First Floor (Lobby), lanecc.edu/esfs/ 541.463.3100, 877.520.5391, or TTY 541.463.4722

Enrollment and Student Financial Services admits credit students, provides registration and billing assistance to all students, and responds to all questions and issues regarding financial aid. Hours are Monday-Thursday, 9 a.m.-5 p.m. and Friday, 9 a.m.-2 p.m. The college is closed on Fridays during summer term.

Web Information about the college, such as the catalog, class schedule, and myLane, can be found on the Internet at lanecc.edu.

Other Good Starting Places:
College centers and maps, pages 8-9
Disability Resources, page 23-24
English as a Second Language, page 274
International Student Program, page 26
Multicultural Center, page 26
Native American Program, page 28
TRiO Learning Center, page 30
Veterans’ Office, page 31-32
Women’s Center, page 32
Como Empezar en Lane

Quien puede asistir a Lane
En general, cualquier persona 18 años o mayor puede matricularse en clases de valor curricular en Lane Community College. No se requiere diploma de preparatoria. Las clases al público sin valor curricular generalmente están abiertas a personas de 16 años o mayores. El college está dedicado a ayudar a cada estudiante a lograr sus metas educativas inmediatas.

Que les Ofrece Lane
Lane Community College ofrece cursos de tronco común, capacitación profesional y vocacional, desarrollo de habilidades preuniversitarias, programas cooperativos con preparatorias locales, orientación profesional y personal, servicios para empresas, educación continua, y actividades culturales.

Programas y Clases de Valor Curricular
Algunos de los cursos que el college ofrece son de “crédito” (valor curricular). Los cursos de crédito curricular están diseñados para transferirse a otros colleges/universidades o para que formen parte de un programa técnico/profesional. La información sobre clases de crédito curricular empiezan en la página 66.

Clases de Educación Comunitaria
Los cursos “sin crédito” no pueden transferirse a otros colleges/universidades ni pueden formar parte de un programa de grado técnico/profesional. La información sobre estos cursos empieza en la página 273.

Buenos Puntos de Partida
Lane ofrece una variedad de opciones educativas las cuales están diseñadas para cumplir con los deseos académicos de las personas durante las diferentes etapas de su vida y educación. A continuación presentamos unos buenos puntos de partida.

Ask Lane es la herramienta en línea disponible las 24 horas del día que ayuda a contestar preguntas generales relacionadas con asistir a Lane. Se encuentra en la parte superior de la página inicial de Lane en lanec.edu.

Catálogo Este catálogo se produce anualmente durante la primavera y lo puede adquirir gratis en los centros del college. También se puede ordenar, a bajo costo, por correo. Para ordenar un catálogo, llame a la Librería de Lane al 541.463.5256 o puede usar la hoja de pedido que se encuentra en la revista de Community Education Class Schedule. El catálogo se encuentran en el portal de Lane en el Internet, lanec.edu.

El catálogo de Lane es publicado para fines informativos y se hacen todos los esfuerzos para asegurar exactitud a la hora de imprimirlo. Sin embargo, lo presentado en este catálogo no debe ser considerado como un contrato irrevocable entre el estudiante y el college. Lane Community College reserva el derecho de cambiar, en cualquier momento, cualquier parte de lo presentado o de los requisitos. Se les aconseja a los estudiantes revisar la lista de clases y asesorarse detalladamente con un consejero o asesor. También se les recomienda a los estudiantes obtener una evaluación formal de sus expedientes académicos, al iniciar sus programas de estudios, para así obtener la información más precisa sobre los requisitos que necesitan para sus programas.

Lista de Clases El horario de online clases está a su disposición en el Internet, en lanecc.edu aproximadamente una semana antes de que se inicie el registro. El registro usualmente inicia la cuarta semana del trimestre anterior excepto el trimestre de otoño, el cual se lleva a cabo durante el trimestre de primavera anterior.

La revista impresa con el horario de clases trimestrales también es enviado por correo a los hogares dentro del distrito escolar aproximadamente una semana antes de que se inicie cada trimestre. El centro en Florence también envían por correo horarios de clases específicos a ese centro.

Centro de Consejería y Asesoría Edificio 1, Salón 103, 541.463.3200 El Centro de Consejería y Asesoría ayuda a los estudiantes a planear y alcanzar sus metas educativas. El centro proporciona asesoría académica, y consejería vocacional: Para recibir ayuda, vaya al centro o haga una cita al llamar al 541.463.3200.

Para información sobre el Centro y otros servicios de consejería, ver páginas 22.

Servicios de consejería también se ofrecen el los siguientes centros fuera del plantel:

Downtown Campus, 541.463.5940 Lane Community College en Cottage Grove, 541.463.4202 Lane Community College en Florence, 541.997.8444 o 541.463.4800

Admisión/Enrollment and Student Financial Services Edificio 1, Primer piso, lanecc.edu/esfs/, 541.463.3100, 877.520.5391, or TTY 541.463.4722

Admisión/Enrollment and Student Financial Services proporciona una variedad de servicios para estudiantes de nuevo ingresos y para los que regresan a Lane. Estos servicios incluyen: admisión, apoyo y asesoría para la ayuda financiera, servicios de pagos, y ayuda con matrículación. Los horarios de servicios: lunes-jueves, 9 a.m.-5 p.m. 4 y viernes, 9 a.m.-2 p.m. El colegio estará cerrado los Viernes durante el trimestre de Verano.

Internet Para obtener información sobre el college en el Internet, vaya al lanecc.edu.

Otros Buenos Puntos de Partida
Centros del college, páginas 8-9
Recursos para Discapacitados, páginas 23-24
Inglés como Segundo Idioma, página 274
Programa para Estudiantes Internacionales, página 26
Centro Multicultural, página 26
Programa Nativo Americano, página 28
Centro de Aprendizaje TRiO, página 30
Oficina de Veteranos, página 31-32
Centro para la Mujer y el programas Transiciones, página 32
College Phone Numbers

Main college phone: 541.463.3000

Administrators
- President ............................................ 541.463.5200
- Vice President, College Services ........................................... 541.463.5311
- Vice President, Academic and Student Affairs .......................... 541.463.5302
- Executive Dean Academic Affairs, Career Technical ................. 541.463.5315
- Executive Dean Academic Affairs, Transfer ............................ 541.463.5306
- Executive Dean Student Affairs ............................................ 541.463.5725
- Admissions/Enrollment and Student Financial Services ....... 541.463.3100
- Adult Basic and Secondary Education (ABSE) ...................... 541.463.5214
- Downtown Campus ....................................................... 541.463.6100
- ABSE Volunteer Tutor Program ........................................ 541.463.6180
- Affirmative Action ....................................................... 541.463.5801

Associated Students of Lane
- Community College (ASLCC) ............................................. 541.463.5365
- Athletics ............................................................................. 541.463.5599
- Bookstore ............................................................................ 541.463.5256
- Career and Employment Services ....................................... 541.463.5167
- Child and Family Education .............................................. 541.463.5519
- Continuing Education ....................................................... 541.463.5160
- Cooperative Education ...................................................... 541.463.5203
- Cottage Grove Center* ...................................................... 541.942-4202
- Counseling (Main Campus) ............................................... 541.463.3200

Credit Instructional Departments
- Academic Learning Skills .................................................. 541.463.5439
- Advanced Technology ...................................................... 541.463.5380
- Arts Division ...................................................................... 541.463.5409
- Business Department ....................................................... 541.463.5221
- Child and Family Education .............................................. 541.463.3522
- Computer Information Technology ...................................... 541.463.5221
- Cooperative Education ...................................................... 541.463.5203
- Culinary Arts and Hospitality Management ......................... 541.463.3503
- Flight Technology ............................................................. 541.463.4196
- Health and Physical Education ......................................... 541.463.5545
- Health Professions .......................................................... 541.463.5617
- Human Development (Counseling Department) ..................... 541.463.3200
- Language, Literature and Communication ............................ 541.463.5419
- Mathematics ..................................................................... 541.463.5392
- Music, Dance and Theatre Arts ......................................... 541.463.5209
- Science ............................................................................ 541.463.5446
- Social Science .................................................................... 541.463.5427
- Women’s Program ........................................................... 541.463.5353
- Denali (Student Publication) ............................................. 541.463.5897
- Dental Hygiene Clinic ....................................................... 541.463.5206
- Disability Resources ......................................................... 541.463.5150
- Dislocated Worker Program ................................................ 541.463.5223
- Downtown Campus .......................................................... 541.463.6250
- Emergency Calls (on campus) ........................................... 541.463.5555
- Emergency Medical (on campus) ....................................... 541.463.5555
- Employment Services ....................................................... 541.463.5167
- English as a Second Language .......................................... 541.463.5253
- Enrollment and Student Financial Services ......................... 541.463.3100
- Family Connections of Lane and Douglas Counties ......... 541.463.3954/1.800.222.3290
- Financial Aid ................................................................. 541.463.3100
- Fitness Education Center* .................................................. 541.463.3987
- Florence Center ............................................................... 541.997.8444/541.463.4800
- Foundation ....................................................................... 541.463.5226
- GED, Classes ...................................................................... 541.463.5214
- GED, Testing ....................................................................... 541.463.5324
- Health Clinic ...................................................................... 541.463.5665
- High School Connections .................................................. 541.463.5521
- International Students Counselor ...................................... 541.463.3200
- KLCC (Radio Station) .......................................................... 541.463.6000
- LaneOnline ........................................................................ 541.463.5893
- Library* ............................................................................ 541.463.5220
- Medical Emergencies (on campus) .................................... 541.463.5555
- Multicultural Center ........................................................... 541.463.5276
- Music, Dance and Theatre Arts Ticket Office ................. 541.463.5202
- Public Safety* (emergency calls) ......................................... 541.463.5555
- General Public Safety Information .................................. 541.463.5558
- Recreational/Club Sports ................................................... 541.463.5293
- Registrar, Director of Enrollment Services ......................... 541.463.5686
- Small Business Development Center ............................... 541.463.6200
- Student Life and Leadership Development ...................... 541.463.5336
- Student Child Care Office .................................................. 541.463.5519
- Student Financial Services
  - Student Loan Payments (Perkins) .................................... 541.463.3012
  - Tuition and Other Payments ......................................... 541.463.3100
- Student Legal Services ...................................................... 541.463.5385
- Student Records ............................................................... 541.463.3100
- Student Resource Center .................................................. 541.463.5342
- Substance Abuse Prevention ............................................. 541.463.5178
- TTY (Disability Resources) ................................................... 541.463.3079
- TTY (Personnel) ............................................................... 541.463.3999
- Titan Store ......................................................................... 541.463.5256
- Torch (Student Newspaper) ............................................... 541.463.5881
- Tours (Main Campus) ....................................................... 541.463.5678
- Transitions to Success ........................................................ 541.463.5837
- TRIO Learning Center ...................................................... 541.463.3131
- Veterans’ Benefits ............................................................. 541.463.5663
- Veterans’ Services ............................................................. 541.463.5684
- Women’s Center ............................................................... 541.463.5353
- Work Study ................................................................. 541.463.5039
- Workforce Development .................................................... 541.463.5223

* These offices and facilities also can be reached during evening hours.
Locations and Maps

Facilities
The college has a 301-acre campus on 30th Avenue in Eugene. About one-third of the construction money came from local taxes and two-thirds from state and federal grants.

A new downtown campus in Eugene is centrally located and convenient for those who live, work or shop downtown.

Lane Community College at Cottage Grove provides educational services for the southern part of the college district, and the Florence Center serves residents in the western part of the district.

Siltcoos Station, located south of Florence on Siltcoos Lake, is a facility for educational and recreational use.

Lane's Flight Technology program offers ground/flight courses at its facilities at Eugene's Mahlon Sweet Airport. The college's Return-to-Service facility at the airport provides advanced training for Aviation Maintenance Technology students.

The college also offers classes via television and the Internet.

Bus Pass and Bus Transportation
Credit students, ABSE and ESL students at the main campus and Downtown Campus (DCA) are assessed a $27 per term* transportation fee which covers the cost of several transportation initiatives that benefit our students, including a Lane Transit District/Lane Community College term bus pass. Other students are assessed a $5 per term* transportation fee. For bus routes and bus pass information, log on to the LTD website at ltd.org or call LTD Customer Services at 541.687.5555 or 711 (TTY—Oregon Relay).

Maps to Lane Community College

Parking
**Main Campus**
Parking is permitted in all parking lots on the main campus, hard surface and gravel. Parking is prohibited on main access roads at Gonyea Road and Eldon Schafer Drive. If parking is temporarily permitted in an area where parking is not normally permitted, the area will be clearly marked.

More information about motor vehicle regulations applicable to Lane is available on Lane's website at lanecc.edu/copps/documents/vehicle-regulations or call 541.463.5558.

**Downtown Campus**
- The closest parking option is The Broadway garage, with entries on either side of Broadway along the west side of Charnelton. Parking here is free on weekends and after 6 p.m. with hourly parking available by machine (which accepts credit cards).
- Lane's Downtown Campus (DCA) students may obtain parking validation cards from the Titan Store and Market.
- Parking cards may be used in the Overpark and Parcade (not at The Broadway). Parking cards have no cash value.
- Parking is free on Saturday and Sunday in the Overpark and Parcade, for the first hour of parking Monday through Friday, and before 7 a.m. and after 6 p.m. Monday-Friday.
- For more information, call 541.463.6250, and for the latest information on all things related to our new Downtown Campus and the parking and transportation options available, see: lanecc.edu/facilities/transportation

* subject to change
Parking

- Parking is permitted in all parking lots on main campus.
- Parking is prohibited on the access roads to main campus (Gonyea Road and Eldon Schafer Drive).
Credit Student Admissions and Registration

Who May Enroll in Lane Credit Classes

Students over age 18  Anyone who is at least 18 years of age may enroll in Lane credit classes. A high school diploma is not required. Students planning to use financial aid to attend Lane must have a high school diploma, a GED certificate, completed home-schooling at the secondary level prior to the term the student wishes to receive aid. For more information, contact Enrollment and Student Financial Services at 541.463.3100.

Students under age 18  Anyone under age 18 must be a high school graduate or follow one of the procedures listed below in order to enroll in credit classes at Lane.

- Students who have not graduated and who are not enrolled in high school must have a GED certificate to enroll in credit classes at Lane.
- Students who are under the age of 18 at the time they are applying to Lane to become a credit student, need to complete the on-line admissions application process at lanecc.edu/admissions.html. To finalize the admissions process students under the age of 18 without a high school diploma must complete and submit to Enrollment and Student Financial Services the “Student/Parent-Guardian Consent Signature” form included in the on-line admissions process. Students attending Lane under the age of 18 will not be considered as regularly admitted students until they reach the age of 18 or they have demonstrated that a high school diploma has been earned.

Information about Lane’s noncredit and Adult Basic and Secondary Education programs is in the Community Education section of this catalog.

Residency  More information about residency, including tuition rates and documentation requirements, is provided in the Tuition, Financial Aid and Payment section. Briefly, students are considered In-District* if they

- have maintained a permanent residency within the college district for at least 90 continuous days prior to the first day of the term.

* In-District includes Lane County, the Monroe Elementary District, and the Harrisburg Union High School District.

Students are considered In-State (out-of-district) if they

- have maintained a permanent residency within the state for at least 90 continuous days prior to the first day of the term.

Students who are In-District, In-State or permanent residents of Washington, Idaho, Nevada, or California pay In-State tuition at Lane.

Please be aware that being designated as an Oregon resident at Lane Community College does not guarantee the same status with any other two-year or four-year institutions, both within and outside the state of Oregon. It is vital that you review the residency requirements at all institutions to understand their in-state residency requirements.

Admissions

The admissions process at Lane is very easy. Simply complete the Admissions Process online at lanecc.edu.

International Programs Admissions

Building 11, Room 235, 541.463.3404

International students on F-1 student visa are welcome at Lane. We’re excited to be part of educating international students from over 30 countries each term.

Students applying to Lane need to complete the international application available online (processing fee included) and submit the following documents: copy of passport, transcripts, and official bank statement or letter of support. The following additional documentation is required to be admitted directly to credit level classes: college, university or high school transcripts, and one or more of the following test scores: TOEFL (pBT or cBT or iBT), IELTS or STEP Eiken. Please see lanecc.edu/international for more information about test score minimums.

All credit-level students will take the Accuplacer placement test, regardless of TOEFL or other test scores. Students who do not place into credit-level classes on the Accuplacer will be required to take International English as a Second Language classes or they may choose to transfer to other institutions. Upon completion of IESL, students will be eligible to take the Accuplacer and begin taking credit classes without meeting the TOEFL requirements.

International application deadlines are: August 1, November 15, March 1 and June 1. All materials must be submitted to the International Programs office by this date or students will be considered for the following term. International students, including transfer international students, must attend the International Programs Orientation prior to the beginning of the term. College major and International English as a Second Language students are admitted for fall winter and spring terms. International English as a Second Language students are admitted summer term too.

Students who are transferring to Lane from another college, university or language institute in the USA need to have at least a 2.0 GPA, be eligible to return to their current school, and have earned less than 180 quarter credits to be admitted to the regular program. Students with less than a 2.0 GPA or those who are not eligible to return to their current school must enroll in the International Student Success Program. Students who have earned more than 180 quarter credits need to identify a specific degree plan and specific number of credits needed before they can be admitted. All students must be in status with immigration. Students with terminated I-20s are not eligible to transfer to Lane.

For more information, contact International Admissions at 541.463.3404, Lane Community College, 4000 East 30th Avenue, Eugene, Oregon 97405-0640 or visit lanecc.edu/international. The international application is an online process and includes an application processing fee. Go to lanecc.edu to apply.

Lane International Programs offers special services and activities that help international students succeed at Lane. See page 26. For more information about Lane’s International English as a Second Language Program, see page 274.
Transferring Credit to Lane
The amount of credit transferred depends upon the nature of the student's college work, which is evaluated according to the academic requirements of Lane Community College. Official transcripts and other transfer documents are accepted from students admitted to Lane. Once Lane receives a student’s official transcript from another school, it becomes the property of Lane Community College and is subject to federal law, The Family Education Rights and Privacy Act (FERPA). A student may view the transcripts but Lane cannot release a copy back to the student. It is suggested that students order an unofficial copy for personal use. See Procedures and Policies, page 50.

More information is available on Lane’s transfer practices at lanecc.edu.

Programs with Special Admission Procedures
Each of the following programs has special admission procedures. Students must be officially admitted to these programs. Contact the Health Professions Application Center for more information hpapplicationcenter@lanecc.edu. Admission Packets are available on Lane’s website, lanecc.edu.

- Associate Degree Nursing
- Practical Nursing
- Dental Hygiene
- Dental Assisting
- Emergency Medical Technology/Paramedic
- Health Records Technology
- Medical Office Assistant
- Physical Therapist Assistant
- Respiratory Care

The programs listed below are limited enrollment requiring that the program be listed as the major or requiring a special application for acceptance listing as the major. Contact the sponsoring department for information:

- Apprenticeship Trades ................................................................. 541.463.3333
- Automotive Technology .............................................................. 541.463.3333
- Culinary Arts and Food Service Management ......................... 541.463.3333
- Hospitality Management ............................................................. 541.463.3333
- Early Childhood Education ......................................................... 541.463.3333
- Energy Management: Renewable Energy Technician ............... 541.463.3333
- Energy Management Technician .................................................. 541.463.3333
- Exercise and Movement Science .................................................. 541.463.3333
- Flight Technology ........................................................................... 541.463.3333
- Graphic Design (the second year) .................................................. 541.463.3333
- Occupational Skills ......................................................................... 541.463.3333

Physical Exams and Immunizations
Some academic programs and student activities such as varsity sports have special requirements for physical exams and immunizations. Students can get specific information from the sponsoring department.

Registering for Classes

Registration
Registration for each term is now staged over four days according to the cumulative number of Lane credits earned through studies at Lane (transfer credits do not count). Students can easily check their registration date and see if they have any holds or restrictions preventing registration by going to myLane. For more information, visit the website at lanecc.edu/esfs/registration. For questions, email RegistrationInfo@lanecc.edu.

Schedule Changes
Students may add and drop full-term classes through the eighth week of the term using myLane. Schedule changes could result in additional tuition and fees.

Some classes require the instructor’s consent to enroll. myLane will inform students of this requirement when attempting registration. Increasing the number of credits for a variable credit class can be processed using myLane through the last week of regular classes, prior to the beginning of finals week. Additional tuition and applicable fees will be charged to the student’s account, and payment policies will apply.

Refunds
Tuition is not prorated. Students who drop a class and meet the refund deadline of Sunday midnight, the first week of the term for classes that meet 11 weeks will be refunded all of the tuition. Students who drop after this deadline will not receive a refund. More information about the refund process is provided in the tuition section of this catalog.

Steps to Enroll in Credit Classes
From lanecc.edu, go to “Apply and Enroll” and follow the steps.

All new students will be required to submit an email address when applying to the college by using the online admissions process. Students who already have been admitted are encouraged to enter an email address via their myLane account. Students taking online web courses also may be required to have a valid email address to participate in the course.

If you would like help in arranging for a free email address, contact the IT Service Center by stopping by the SHeD in Bldg. 2, Room 121 or call 541.463.3333 (ext. 3333 on campus).

Pasos para matricularse en clases con valor curricular
En la página inicial de Lane en lanecc.edu, seleccione “Apply and Enroll” y haga clic en los pasos.

Todos los estudiantes nuevos deben presentar una dirección electrónica cuando se matricularan al college al usar el proceso electrónico de matrículación. A los estudiantes que previamente han sido admitidos se les pide que presenten una dirección electrónica por medio de su cuenta myLane. Los estudiantes que toman cursos por medio del Internet también deben tener una dirección electrónica válida para participar en el curso. Si le gustaría obtener ayuda para conseguir una dirección electrónica gratuita, comuníquese con el IT Service Center al visitar el SHeD en el edificio 4, salón 201 o llame al 541-541.463.3333 (ext. 3333 en campus).
Overview of Academic Programs

Lane Community College is a comprehensive community college offering career technical and lower division college classes. The college offers classes at a number of locations in addition to the main campus. These include the Downtown Campus in Eugene, Lane Community College at Florence, Lane Community College at Cottage Grove, and facilities at the Eugene Airport.

In addition to weekday classes, Lane offers some evening and Saturday classes. Evening and Saturday classes for credit are offered on the main campus and at outreach centers. By selecting from among these classes, students can earn college transfer credit or work toward a certificate or degree in one of Lane's career technical programs. Evening courses are listed in the class schedule on Lane's website at lanecc.edu.

Lane also offers a variety of different ways students can learn ranging from traditional lecture or lecture/lab classes to open-entry/open-exit classes that permit students to begin and end the class when they wish.

Career Technical Programs

Career technical programs lead to certificates and associate of applied science degrees. Many classes required to complete two-year programs can be transferred to four-year colleges. Others do not transfer.

For a list of career technical programs offered at Lane, see pages 49-50. For information about specific programs, see pages 66-157.

College Transfer Classes and Degrees

The college offers lower division (freshman and sophomore) college credit classes so that a student may complete the first two years of college at Lane.

Lane offers several college transfer degrees and preparation for a number of college transfer majors. For a complete list of majors, see page 48.

Associate of Arts Oregon Transfer Degree (AAOT)

• Designed for students who want flexibility to transfer to any school in the Oregon University System (OUS).
• AAOT accepted to meet lower division general education requirements
• Ensures junior status for registration purposes
• Limited transferability of career technical courses
• Does not guarantee admission to OUS institutions

Associate of Science Oregon Transfer — Business Degree (ASOT-BUS)

• Designed for students who want flexibility to transfer to any school in the Oregon University System with business-focused general education requirements.
• ASOT - Bus accepted to meet lower division general education requirements
• Ensures junior status for registration purposes
• Limited transferability of career technical courses

Associate of Science

• Designed for some transfer majors to match requirements at some four year colleges
• May meet some lower division general education requirements, but not guaranteed
• Limited transferability of career technical courses

Associate of General Studies

• Designed for students not pursuing a specific transfer or career technical program
• Offers great flexibility in elective credits
• May meet some lower division general education requirements, but not guaranteed
• Limited transferability of career technical courses

Direct transfer

• Designed for students pursuing a specific transfer major at another college or university
• Not eligible for federal financial aid
• Contact Counseling for information on Direct Transfer

Cooperative Education

Cooperative education (Co-op) offers career/technical and college transfer credit for practical work experience related to a student's educational and career goals. Co-op education provides a student with an opportunity to apply theory learned in the classroom to work experience in a career field. The objective of co-op is to provide an on-the-job learning experience in a business or organization which adds meaning and direction to the student's total education. Cooperative education is available in all academic departments.

Advantages to the Student

• financial support through paid employment while earning credit
• guidance in career expectations and demands
• help in locating part-time or full-time employment which may lead to regular employment
• development of skills and self-confidence
• early exploration and confirmation of career choice
• development of job contacts and a work history
• increased motivation for academic achievement
• instruction in resume preparation and interviewing skills

Cooperative education is a three-way partnership which includes the student, Lane Community College, and the co-op employer. Co-op provides a way for a student to combine study at Lane with work experience under the supervision of an employer and, like classroom work, is an integral part of a student's educational preparation.

Lane Community College's Cooperative Education is the second largest among two-year colleges in the United States offering cooperative education. An outstanding model internationally, Co-op has quality learning opportunities locally, regionally, nationally, and internationally. Over 2,000 Lane students each year enroll in co-op and work in both paid and non-paid positions. More than 800 employers participate in Co-op each year. Sixty-five percent of all co-op students are retained by employers as regular employees after graduation, although employment is not guaranteed.
To participate in cooperative education, a student is usually expected to successfully complete a specified set of courses prior to the work experience. Students must consult a co-op coordinator (see the following list) to set up a cooperative education learning experience. Student compensation is at a rate of pay comparable to employees who do similar work. In some instances, students may receive credit for volunteer or non-paid experiences.

**Registration Procedures**
1. meet with co-op coordinator in area of study
2. establish credits
3. complete agreement form
4. register for the co-op course

**Credits** Course credit may be earned for work experience if a job is related to either the student’s major or occupational goal. The student enrolled in co-op receives credit and a grade for work. Normally, a maximum of 18 co-op credits will transfer as elective credit. Credit is assigned on the basis of one credit for 36 hours of work experience. Entry into co-op is by coordinator consent. Certain career technical programs require co-op credits. Unless prior approval is received from the Cooperative Education Division dean, students must enroll for a minimum of three credits. Co-op is offered all terms and students may earn up to 12 credits in one term. Cooperative education credits may not be audited or taken pass/no pass. Co-op credits may not be earned for past work experience (see Student Records for Credit by Assessment).

The Cooperative Education Division administers co-op courses. To learn about cooperative education, visit the website: lance. edulcooped/ or drop by the Co-op office, Building 19, Room 231 or call 541.463.5203.

The following is a list of Cooperative Education coordinators. Students should contact the coordinator in their program prior to enrolling in a cooperative education course.

### Curriculum or Transfer Area

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<th>Area</th>
<th>Co-op Ed Coordinators</th>
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<tr>
<td>Accounting</td>
<td>Jamie Kelsch</td>
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<tr>
<td>Administrative Office Professional</td>
<td>Jamie Kelsch</td>
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<tr>
<td>Aerobics</td>
<td>Sue Thompson</td>
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<tr>
<td>American Indian Languages</td>
<td>Tamara Pinkas</td>
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<td>Anthropology</td>
<td>John del Nero</td>
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<td>Art &amp; Applied Design</td>
<td>Teresa Hughes</td>
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<td>Sue Thompson</td>
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<td>Athletics</td>
<td>Sue Thompson</td>
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<td>Auto Body &amp; Fender</td>
<td>Marv Clemons</td>
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<td>Automotive Technology</td>
<td>Marv Clemons</td>
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<td>Aviation Maintenance</td>
<td>Marv Clemons</td>
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<td>Gerry Meenaghan</td>
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<td>Business Management</td>
<td>Jamie Kelsch</td>
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<td>Coaching</td>
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<td>Construction</td>
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<td>Corrective Fitness</td>
<td>Shannon Gaul</td>
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<td>Criminal Justice</td>
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<td>Culinary Arts</td>
<td>Joe McCully</td>
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<td>Data Processing</td>
<td>Marv Clemons</td>
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<td>Data Processing</td>
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<td>Dental Assisting</td>
<td>Leslie Greer</td>
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<td>Dental Hygiene</td>
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<td>Tamberly Powell</td>
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<td>Tamara Pinkas</td>
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<td>Kathleen Lloyd</td>
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<td>Education (K-14 Teacher Preparation)</td>
<td>Merrill Watrous</td>
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<td>Electronics Technology</td>
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<td>Engineering (Transfer)</td>
<td>Gerry Meenaghan</td>
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<td>Tamara Pinkas</td>
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<td>Flight Technology</td>
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<td>Brenda Kluhsman</td>
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<td>Dorothy Wearn</td>
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<td>Marv Clemons</td>
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<td>Mathematics</td>
<td>Gerry Meenaghan</td>
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<td>Medical Office Assistant (MOA)</td>
<td>Marti Pittman</td>
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<td>Physical Therapist Assistant (Clinical Affiliation)</td>
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<tr>
<td>Service Learning</td>
<td>Beverly Farfan</td>
</tr>
<tr>
<td>Service Learning Honors</td>
<td>Tamara Pinkas</td>
</tr>
<tr>
<td>Simulation and Game Development</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Sociology</td>
<td>Beverly Farfan</td>
</tr>
<tr>
<td>Spanish</td>
<td>Tamara Pinkas</td>
</tr>
<tr>
<td>Speech</td>
<td>Tamara Pinkas</td>
</tr>
<tr>
<td>Sustainability Coordinator</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Systems Support</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Water Conservation Technician</td>
<td>Sarah Whitney</td>
</tr>
<tr>
<td>Watershed Science Technology</td>
<td>Sarah Whitney</td>
</tr>
<tr>
<td>Welding</td>
<td>Marv Clemons</td>
</tr>
<tr>
<td>Wellness</td>
<td>Sue Thompson</td>
</tr>
</tbody>
</table>
High School Connection
Curriculum for High School Students
Lane’s High School Connections office provides assistance to high school students to make the transition from high school to college. Local students have an opportunity to earn college credit while being dually enrolled at their high school and Lane, through the College Now and RTEC programs. Lane Community College does not offer high school completion diplomas.

College Now classes are taught in the high school during regular school hours by high school instructors approved by Lane. These classes are similar to those offered in Lane programs, including course content, textbook and length of course. Courses are taught in many subject areas including English, French, Spanish, art, social science, math, business, culinary, early childhood education, graphic design, drafting, fabrication/welding, and others. College Now credits are free for 2013-14 academic year.

RTEC, Regional Technical and Early College, is a collaborative effort with local schools to provide early college opportunities to high school students. RTEC provides rigorous and relevant career technical training according to industry standards. These classes fill the gaps where high schools can no longer offer these courses. RTEC provides accelerated career technical courses for high schools that need advanced opportunities for their students. Courses are taught at Lane, at the high schools or online in a variety of career technical and academic areas.

The High School Connections office works with local school districts that want to sponsor their students for dual credit in career technical or academic classes. Additionally, school districts contract with Lane to provide college level classes directly at their location.

For more information about High School Connections programs, visit the website at lanecc.edu/hsconnections or call 541.463.5521.

Honors Program
The Lane Honors Program provides you with a transformative learning experience centered around scholarly inquiry, academic rigor, and intellectual growth. Through challenging coursework, special seminars, and experiential learning opportunities, you will develop your critical thinking skills, creativity, and intellectual curiosity.

As an honors student, you will receive many educational benefits, including:

- collaborative learning with other engaged students
- faculty mentorship
- guest speakers and honors events
- graduation from Lane with honors recognition
- a competitive edge when applying for scholarships to 4-year universities

If you are transferring to a four-year institution, you will be well-prepared for upper division coursework and university honors programs. If you are a non-transfer student, you will benefit from the program’s opportunities for personal enrichment.

Lane honors classes fulfill general education electives and requirements for transfer degrees. Most Lane honors classes are also open to any student prepared to complete honors-level coursework; however, the honors seminars are only open to students who have applied for and been accepted into the Lane Honors Program.

For a list of current classes, to learn more about the Honors Program or to apply, please visit our website at lanecc.edu/honors/ or email honors@lanecc.edu with questions.

International Learning Opportunities
International Cooperative Education
The International Cooperative Education program, in partnership with IE3 Global Internships, provides international work opportunities where students earn graded, elective college transfer credit. A wide variety of work experiences are available throughout the world, including Africa, Asia, Australia, North and South America, and Europe. Living and working in a different culture gives students the chance to acquire both technical and international skills that are invaluable in today’s global society. For more information, visit ie3global.ous.edu or contact Tamara Pinkas, Cooperative Education Division, Building 19/Room 231D, 541.463.5011.
Courses with International Focus
Courses with an international focus are available in many subjects including visual arts, music, literature, language, anthropology, geography, and history. Currently, these include:

ANTH 103 Cultural Anthropology
ANTH 211 Selected Topics in Ethnology: Folk Religions
ANTH 227 Prehistory of Mexico
ANTH 228 Cultures of Mexico
ANTH 229 Chicano Culture
ART 207 History of Asian Art: India
ART 208 History of Asian Art: China
ART 209 History of Asian Art: Japan
ART 217 Islamic Art
D 251 Looking at Dance
ECON 204 Introduction to International Economics
ENG 107, 108, 109 Survey of World Literature
ENG 213 Survey of Asian Literature
ENG 215 Latino/a Literature
ENG 218 Literature of the Islamic World
ENVS 182 Atmospheric Environment and Population
FR 101, 102, 103, 150, 151 First Year French
FR 111, 112, 113, 211, 212, 213 Conversational French
FR 201, 202, 203 Second Year French
GEOG 103 Cultural Geography
GEOG 214 World Regional Geography
GEOG 214 Mexico and Central America
GEOG 216 Geography Pacific Asia
GEOG 223 Geography of the Muslim World
HE 255 Global Health and Sustainability
HST 104, 105, 106 World History
HST 195 History of Vietnam War
HST 261 Latin American History
MUS 108 Music in World Cultures
PS 205 International Relations
PS 211 Peace and Conflict Studies: Global
REL 201 Religions of India
REL 202 Religions of China and Japan
REL 203 Religions of the Middle East
REL 231 Buddhist Meditation Traditions
REL 243 Nature, Religion and Ecology
SOC 216 Global Social Movements
SPAN 101, 102, 103 First Year Spanish
SPAN 201, 202, 203 Second Year Spanish
SPAN 211, 212, 213 Conversational Spanish, Intermediate
SP 115 Introduction to Intercultural Communication

For more information, see the course descriptions in this catalog, or call the appropriate academic department.

LaneOnline
LaneOnline provides courses delivered through technology. The Associate of Arts Oregon Transfer (AAOT) degree can be earned through LaneOnline. Significant coursework can also be completed for the Associate of General Studies and Associate of Science degrees. There is an annual course schedule online.

Online Courses Online courses are complete courses delivered on the web. Students may participate anytime, anywhere they have a computer with internet access. Interaction with the instructor and other students is provided through discussion forums and email. Some online courses have on campus labs or exams, or require viewing video programs.

Hybrid Courses Hybrid courses combine traditional classroom activities with online learning so that time spent in the classroom is reduced but not eliminated. A portion of the class instruction is conducted online and the rest is conducted during regularly scheduled classroom meetings.

Telecourses Telecourses include weekly video programs, use of the internet, email, textbooks, assignments, and examinations. Students can view telecourses on cable TV, in the Lane Library, and at LCC at Cottage Grove and Florence. Some courses can be downloaded, streamed, purchased, or rented on DVD. Exams are usually taken on campus.

Live Interactive Courses Students enroll and participate by attending on campus or through videoconferencing at an off campus location. A few courses may be viewed live on cable television. Tuition for LaneOnline courses is the same as other courses. Additional fees may be charged.

For more information about taking LaneOnline courses, call 541.463.5893 or see lanecc.edu/laneonline.

Learning Communities
What are Learning Communities?
Learning Communities are a great way to learn! They help you stay engaged and motivated while you pursue your college and life goals.

Learning Communities classes can be linked in several ways:
• Around a goal, such as writing a successful scholarship application, successfully making a life transition, or succeeding in college
• Around a question, such as how to approach the environment in a sustainable way
• Around a theme, such as the role of food in our culture

Students enroll in two or more classes together, creating a common cohort or “community.” Faculty also work together, often attending the different classes too. Your learning experiences are enhanced by this sense of community and common understanding across disciplines. National research shows that students who take learning communities succeed at higher rates than students who take stand-alone courses. And learning communities classes fulfill the same degree and certificate requirements as stand-alones!

The actual structure of Lane’s learning communities vary among classes and instructors. Some learning communities have very closely integrated curricula, so that the classes seem to “talk” to one another throughout the term. Other learning communities are more loosely organized, and the “community feel” comes from getting to know classmates well and investigating a theme across disciplines.

For more information on how to sign up for a learning community at Lane, go to our website: lanecc.edu/laneonline.

2013-2014 Learning Communities
Lane’s First Year Experience Learning Communities
New Students! Get a jump start on your core classes, meet new people and learn the skills to succeed in college and in life. Take a First Year learning community and get connected.

First Year Learning Communities are geared to your success. Take these linked courses and learn proven strategies to make wise choices about school and life. See detailed course offerings for this term at lanecc.edu/laneonline. Choose from among these options:
<table>
<thead>
<tr>
<th>Fast Lane to Success</th>
<th>Native Circles</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG100  College Success</td>
<td>CG101  Native Circles: It’s Your Life</td>
</tr>
<tr>
<td>EL 115  Effective Learning</td>
<td></td>
</tr>
<tr>
<td>WR 095  College Writing Fundamentals</td>
<td>WR105  Writing for Scholarships</td>
</tr>
<tr>
<td>WR 115  Introduction to College Writing</td>
<td>CG105  Money for College</td>
</tr>
<tr>
<td>WR 121  Introduction to Academic Writing</td>
<td></td>
</tr>
<tr>
<td><strong>Math Success</strong></td>
<td><strong>Show Me the Money (winter term)</strong></td>
</tr>
<tr>
<td>CG100  College Success</td>
<td>WR105  Writing for Scholarships</td>
</tr>
<tr>
<td>EL115  Effective Learning for Math</td>
<td>CG105  Money for College</td>
</tr>
<tr>
<td>MTH 020  Math Renewal</td>
<td></td>
</tr>
<tr>
<td>MTH 060  Beginning Algebra</td>
<td></td>
</tr>
<tr>
<td><strong>Beyond the Field: Fast Lane for Student Athletes</strong></td>
<td><strong>Reconnecting with Nature (spring term)</strong></td>
</tr>
<tr>
<td>CG100  College Success geared to the student athlete</td>
<td>REL 243  Nature, Religion and Ecology</td>
</tr>
<tr>
<td>WR 80, 90, 93, 95, 115, or 121</td>
<td>PS 297  Environmental Politics</td>
</tr>
<tr>
<td><strong>Visualizing Success: Fast Lane for Art Majors</strong></td>
<td>BI 103G  General Biology-Global Ecology</td>
</tr>
<tr>
<td>CG 100  College Success</td>
<td></td>
</tr>
<tr>
<td>ArtT 199  Introduction to the Art Major</td>
<td></td>
</tr>
<tr>
<td><strong>Women in Transition</strong></td>
<td><strong>Service Learning</strong></td>
</tr>
<tr>
<td>CG220  Life Transitions</td>
<td>Would you like to remove invasive plants from a wetland, prepare dinners at a</td>
</tr>
<tr>
<td>CG140T  Career and Life Planning</td>
<td>community meal site, tutor youth at-risk in math or writing, educate others</td>
</tr>
<tr>
<td><strong>Recommended but not required:</strong></td>
<td>about health risks, or advocate for abused women. These are examples of</td>
</tr>
<tr>
<td>CG199 T  Career and Life Planning 2</td>
<td>service learning, a hands-on approach to learning that encourages students</td>
</tr>
<tr>
<td>CG199WS  Life Transitions 3</td>
<td>to increase their knowledge and skills through connections and</td>
</tr>
<tr>
<td>BT030  Computer ABCs for Women in Transition</td>
<td>experiences working in the community.</td>
</tr>
<tr>
<td>CG100T  College Success WIT</td>
<td>Students work outside their classroom in addressing real community needs.</td>
</tr>
<tr>
<td>CG207  Life Transitions 2</td>
<td>Students identify learning activities, learning objectives, and engage in</td>
</tr>
<tr>
<td>EL115T  Effective Learning: Women in Transition</td>
<td>reflection activities designed to promote critical thinking, problem solving,</td>
</tr>
<tr>
<td>MTH010A  Whole Numbers: Fractions and Decimals</td>
<td>and civic awareness.</td>
</tr>
<tr>
<td>MTH020  Math Renewal</td>
<td>Service Learning course formats vary. Service learning activities may be</td>
</tr>
<tr>
<td>PE183U  Strength Training for Women</td>
<td>required, an optional assignment, or extra credit.</td>
</tr>
<tr>
<td>WR115T  Introduction to College Writing: Transitions</td>
<td>For more information, visit lanecc.edu/sl or call 541.463.5395 or email</td>
</tr>
<tr>
<td>WR121T  English Composition: Transitions</td>
<td><a href="mailto:farfanb@lanecc.edu">farfanb@lanecc.edu</a></td>
</tr>
<tr>
<td><strong>Other Learning Communities</strong></td>
<td><strong>BA 195</strong>  Professional Service and Development</td>
</tr>
<tr>
<td><strong>Food for Thought (fall, spring terms)</strong></td>
<td><strong>BI 101I</strong>  Botanical Beginnings</td>
</tr>
<tr>
<td>MTH 025  Basic Math Applications (fall)</td>
<td><strong>BI 102H</strong>  Forest Biology</td>
</tr>
<tr>
<td>CA170  Cooking Theories and Skill Development</td>
<td><strong>BI 103F</strong>  Wildflowers of Oregon</td>
</tr>
<tr>
<td>and/or</td>
<td><strong>BI 103J</strong>  Forest Ecology</td>
</tr>
<tr>
<td>WR115  Introduction to College Writing (spring)</td>
<td><strong>COOP 280SL</strong>  Cooperative Education: Service Learning</td>
</tr>
<tr>
<td>CA 188  Restaurant and Kitchen Lab 2</td>
<td><strong>HE 255</strong>  Global Health</td>
</tr>
<tr>
<td><strong>BioBonds: Building Blocks for Your Body</strong></td>
<td><strong>HS 201</strong>  Introduction to Human Services</td>
</tr>
<tr>
<td>CH 112  Chemistry for Health Occupations</td>
<td><strong>HS 228</strong>  HIV/AIDS and Other Infectious Diseases</td>
</tr>
<tr>
<td>BI 112  Biology for Health Occupations</td>
<td><strong>SOC 108A</strong>  Selected Topics: Women’s Bodies</td>
</tr>
<tr>
<td><strong>and/or</strong></td>
<td><strong>SOC 207</strong>  Women and Work</td>
</tr>
<tr>
<td><strong>SUST</strong></td>
<td><strong>SUST 101</strong>  Introduction to Sustainability</td>
</tr>
<tr>
<td><strong>WATR</strong></td>
<td><strong>WATR 101</strong>  Introduction to Water Resources</td>
</tr>
<tr>
<td><strong>and/or</strong></td>
<td><strong>WATR 105</strong>  Water Conservation Indoor</td>
</tr>
<tr>
<td><strong>WS</strong></td>
<td><strong>WATR 107</strong>  Water Conservation Outdoor</td>
</tr>
<tr>
<td><strong>and/or</strong></td>
<td><strong>WS 101</strong>  Introduction to Women’s Studies</td>
</tr>
</tbody>
</table>

**Service Learning**

Would you like to remove invasive plants from a wetland, prepare dinners at a community meal site, tutor youth at-risk in math or writing, educate others about health risks, or advocate for abused women. These are examples of service learning, a hands-on approach to learning that encourages students to increase their knowledge and skills through connections and experiences working in the community.

Students work outside their classroom in addressing real community needs. Students identify learning activities, learning objectives, and engage in reflection activities designed to promote critical thinking, problem solving, and civic awareness.

Service Learning course formats vary. Service learning activities may be required, an optional assignment, or extra credit.

For more information, visit lanecc.edu/sl or call 541.463.5395 or email farfanb@lanecc.edu

**BA 195**  Professional Service and Development  
**BI 101I**  Botanical Beginnings  
**BI 102H**  Forest Biology  
**BI 103F**  Wildflowers of Oregon  
**BI 103J**  Forest Ecology  
**COOP 280SL**  Cooperative Education: Service Learning  
**HE 255**  Global Health  
**HS 201**  Introduction to Human Services  
**HS 228**  HIV/AIDS and Other Infectious Diseases  
**SOC 108A**  Selected Topics: Women’s Bodies  
**SOC 207**  Women and Work  
**SUST 101**  Introduction to Sustainability  
**WATR 101**  Introduction to Water Resources  
**WATR 105**  Water Conservation Indoor  
**WATR 107**  Water Conservation Outdoor  
**WS 101**  Introduction to Women’s Studies
### Tuition, Fees, Financial Aid and Payment

#### Noncredit Community Education Classes

Noncredit Community Education students pay the following charges:

- **Tuition + fees**: listed next to each class
- **Resource fee**: $5 per term

#### Credit Classes

Credit students pay the following charges:

- **Tuition**: see below
- **Class fees**: listed next to each class
- **Technology fee**: $5 per credit

<table>
<thead>
<tr>
<th>Credit Classes</th>
<th>Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residents of Oregon</td>
<td>$93 per credit hour</td>
</tr>
<tr>
<td>Non-residents of Oregon</td>
<td>$227 per credit hour</td>
</tr>
</tbody>
</table>

#### Other Fees

**ASLCC Student Activity Fee**

Credit students taking main campus classes: $50.30

**Harrisburg Union High School District.**

#### Differential Pricing Program

Beginning with the 2003-04 academic year, Lane's Board of Education approved a differential pricing program to preserve some higher cost career technical programs. Some courses in the following programs currently have differential fees: Auto Body and Fender, Automotive Technology, Culinary Arts, Diesel Technology, Manufacturing Technology, Dental Hygiene, Dental Assistant, EMT/Paramedicine, Medical Office Assistant, Health Records Technology, Nursing, Practical Nursing, Physical Therapist Assistant, and Respiratory Care.

#### Average Total Costs

Typical average yearly expenses excluding room and board, transportation, tools, and personal expenses:

- **Tuition**: $4,140
- **Books**: $1,182
- **Special and Miscellaneous Fees (varies by program)**: $342
- **Student Activity Fees**: $145

A mandatory ASLCC student activity fee is required of all students taking credit classes on Lane’s main campus.

Tuition rates, fees and refunds are subject to change without prior notice.

### Determination of Residency

#### Residents of Oregon

**In-District**

A student at least 18 years of age or a high school graduate who has maintained a permanent residency within the college district for no less than 90 continuous days prior to the first day of the term is classified as In-District. Residency requirements must be met prior to the date that a term begins.

To change residency to In-District or In-State, the student must initiate the change by printing out a residency form available in the forms section at lanecc.edu/esfs/enrollment-services-forms. Students must hand the form directly to an Enrollment and Student Financial Services advisor at Enrollment and Student Financial Services, main campus.

#### In-State (Out-of-District)

A student who has maintained a permanent residency within the state for no less than 90 continuous days prior to the first day of the term is classified as In-State and pays Oregon tuition. Residency requirements must be met prior to the date that a term begins.

Students who have maintained permanent residency within the states of Washington, Idaho, Nevada, or California for at least 90 days prior to the first day of the term also pay In-State tuition at Lane.

This exception in tuition does not allow for an exception in residency requirements for special or limited enrollment programs.

Please note that residency requirements are different at Oregon University System schools. Students intending to transfer should research specific residency requirements at public or private schools to which they will transfer. For more information, visit ous.edu.
Out-of-State and International

There are two residency categories in addition to In-District and In-State:

- Out-of-state but a citizen of the United States or registered resident alien.
- International (not a U.S. citizen or registered alien). International students do not become residents regardless of the length of residency within the district.

Special Circumstances: A student may be classified as In-District or In-State if special circumstances can be documented. The following criteria are used to define special circumstances:

- A veteran and or veteran’s dependants who have established permanent residence inside the college district within 90 days prior to the first day of the term and within one year of veterans discharge from active duty will be considered in-district.
- A DD214 (military discharge papers) for the veteran or a DD-93 (record of emergency data listing dependants of veteran) may be required in order to qualify for residency status.
- A released Oregon State prisoner is considered In-District regardless of residency prior to sentencing if a state agency is the sponsor.
- A legal dependent or spouse of a person who has moved into the college district and established a residence is considered In-District.

Residency: Student residency is determined from information provided by each applicant to the college. Residency does not change without some kind of student interaction. If a student wants to change residency, the student must initiate the change by visiting Enrollment and Student Financial Services, Building 1. The college may require additional documentation to clarify residency status. Only applicants who can provide sufficient documentation that the 90-day residence requirement clearly has been met will be classified In-District or In-State. Once residency has been changed to In-district or In-State, it cannot be reversed. Residency changes will not take affect until the subsequent term following the change.

Please be aware that being designated as an Oregon resident at Lane Community College does not guarantee the same status with other two-year or four-year institutions, both within and outside the state of Oregon. It is vital that you review the residency requirements at all institutions to understand their in-state residency requirements.

Noncredit Continuing Education Classes: have no residency requirement.

Financial Aid

Lane Community College recognizes that many individuals cannot assume the full financial burden of a college education. For this reason, financial aid is available to help bridge the gap between the costs of education and the available student and/or family resources.

To apply for financial aid, students must submit a Free Application for Federal Student Aid (FAFSA) each academic year—summer through spring. The FAFSA is available at fafsa.gov. Students should apply as early as possible after January 1 for the upcoming academic year.

Lane offers three basic types of financial aid to eligible students: grants, work-study and loans. Typically, students are offered a combination of these financial aid awards. Loans must be repaid. Grants, work-study and scholarships do not have to repaid as long as the student remains enrolled in the term they received funding.

To view eligibility requirements, see lanecc.edu/finaid/eligable.

To view further information regarding the financial aid process at Lane, see lanecc.edu/finaid.

Paying for Classes

When you register for a class, you are agreeing to pay for the class. If you cannot attend the class, you must drop the class within the timelines listed in the class schedule or the college will charge you for it. See Refunds and Financial Aid for more information.

You may pay your college bill in the following ways:

By Web

Payments can be made on the web by check or savings account, VISA or MasterCard. Log on to lanecc.edu and access myLane. Once in myLane, click on "myFinances" tab, then click on “Make an Online Payment.” Contact Enrollment and Student Financial Services at 541.463.3100 if you have questions about payments on the web.

By Mail

Send your payment to Lane Community College, P.O. Box 7100, Springfield, OR 97475-0025. You can pay by check or money order payable to Lane Community College. Include your student ID number (‘L’ student ID number).

With a Sponsoring Agent

If a sponsoring agency is paying some or all of your educational expenses, it is your responsibility to see that the agency has provided written authorization to Enrollment and Student Financial Services before you register. If the college doesn’t receive your authorization in a timely manner, finance charges will be added to your account balance. If you have questions, call 541.463.3011 or e-mail SponsoredAccounts@lanecc.edu.

With Financial Aid (credit students only)

Assistance from financial aid is intended to help pay your educational expenses; however, if you do not receive the aid you expect or in time to apply to each terms bill, you still owe the college for charges to your Deferred Billing Terms Agreement account and have the same financial obligations to the college as any other student. If you receive financial aid, that aid will be used to pay all or part of your Deferred Billing Terms Agreement account, depending on the amount of your financial aid awards. The college disburses any remaining financial aid funds to your HigherOne Lanecc Debit Card, direct deposit or check. You will receive written directions on how to choose your refund option according to the financial aid disbursement schedule. For more information about the “LaneCC Debit Card”, go to laneccdebitcard.com.

For more information, see the sections on Deferred Billing Terms Agreement, Refunds and Financial Aid in this catalog.

If you have questions about your bill, contact Enrollment and Student Financial Services at 541.463.3100.

Deferred Billing Terms Agreement

When you register for the first time, the college sets up a college charge account to process your tuition and fees, other charges, credits, refunds, financial aid disbursements, and payments. You are responsible for paying your account in full, even if you are sponsored, expect to receive Financial Aid, think that a family member will pay, or never attend the class.
*By registering, you have automatically accepted the terms of Lane's Deferred Billing Agreement. See lanec.edu/copps/documents/accounts-receivable-billing to access the Deferred Billing agreement. Furthermore, by registering for any class at Lane, you are agreeing to retrieve your 1098T form by accessing the electronic version in myLane. The college does not mail 1098T’s.

Payments On Account Using myLane at lanec.edu Students will be able to make payments on outstanding balances using myLane. Students taking credit classes will not be mailed a billing notice until the final pink notice is mailed the month before an unpaid account goes into collection status. Credit level students may use the Billing Statement link under Student Records in myLane to arrange to have a paper bill mailed. Non-credit level students will be mailed paper statements unless they opt not to receive them. myLane will accept partial or full payments using credit cards, checks, or savings accounts. Refunds will be credited to the student’s Lane account, and any credits/balance due will be mailed to the student. If a student is eligible to receive a refund but has a balance owed to Lane, which could be for the past, present or next term, the refund will be applied to the outstanding debt. Lane uses a third party pay system called Third Party Payment Authorization to allow you to assign access to a third party to make payments on your account. You may review the information and instructions on setting this up at lanec.edu/efs/tuition-fees-and-payments. All transactions are handled through a secure payment system.

General Account Information
To find out how much you owe, access myLane at lanec.edu, click on “myFinances” tab.

You must pay all money you owe the college before you can register each subsequent term.

Late Fees
• The college will assess a late fee of 2 percent on your unpaid balance from a prior billing period.
• A billing period is the time between statements.

Notify the college if your address changes by using myLane. It is your responsibility to maintain a current address, phone number and email in myLane at all times. The college will block you from registering or making any schedule changes if we receive returned mail. At the end of each term, any account with an invalid address and a balance will be moved to a collection agency.

The college will charge you a returned item fee for insufficient funds checks or rejected VISA or MasterCard charges.

The college has the right, without prior notice, to stop or suspend the extension of financial credit, withhold services, apply some non-payroll monies due you as a payment on your account, and/or turn your account over to a collection agency, under the following circumstances:
• The post office returns a bill the college sends you.
• The bank refuses payment on checks you wrote.
• Your VISA or MasterCard payment is declined.
• Failure to pay.

Withholding services means that the college may withdraw you from your current classes, block your registration for future classes and workshops, and withhold transcripts.

Consequences of Not Paying
If you fail to pay your account, the college may take any or all of the following actions:
• Require immediate payment in full
• Purge advance registration for future term
• Block enrollment for any future terms
• Decline to provide official transcripts
• Turn accounts over to a collection agency for non-payment after four months*
• Oregon State Tax Return offset

* Students will be mailed a final notice for accounts that are overdue before the college assigns them to a collection agency which reports them to a credit bureau. The collection agency will add additional collection fees, court and attorney costs to account.

Past Due Accounts Assigned to a Collection Agency After Four Months (120 days) Accounts will be turned over to a collection agency for non-payment after four months (120 days). Students will be mailed a final demand “pink” billing statement for past due accounts before the college assigns them to a collection agency. The collection agency will add their own fees and has the right to report past due accounts to a credit bureau. Failure to maintain a correct address in myLane will result in your account going to a collection agency if unpaid.

Past Due Accounts Must be Paid to the Assigned Collection Agency Students are not able to make payments to Lane for past due accounts that have been assigned to a collection agency. Students wanting to pay off outstanding debts owed to Lane cannot pay at Lane or in myLane and must contact the collection agency listed with the hold message in myLane to make payment arrangements.

Students who have paid their accounts in full with the collection agency will not be able to register or have a transcript released until Lane receives the funds from the collection agency and the Lane account balance has been completely cleared. Payments from collection agencies can take eight weeks to reach Lane. No exceptions will be made to allow a student to register or receive an unofficial or official transcript until the account shows paid in full in myLane at lanec.edu.

Refunds
Tuition
When you register for a class, you agree to pay for it. If you officially drop the class by the refund deadline, the college will refund your tuition. If the college cancels a class, we will refund your tuition in full. It is your responsibility to drop any class that you do not plan to attend. Students must use myLane to officially drop a class. Refer to class schedule for deadlines.

Lane has an all or no refund policy. Whether or not a student receives a refund or not is based on the length of the class and the date that the student drops the class. Students who drop after the refund deadline will not receive a refund or credit for dropping the class. (Tuition is not prorated.) If a refund is applicable, the amount is automatically posted as a credit to the student’s Deferred Billing Terms Agreement account.

myLane
Use myLane for registration, account payments, viewing schedules, class details, and grades. Check each term’s class schedule for information on registration dates, getting your “L” number and going online in myLane.
Interpreting the table below, the class duration is the number of weeks the class is scheduled to meet. “Refund Deadline” means by midnight (11:59 p.m.) on Sunday of the first week. For workshop refunds, students need to contact the sponsoring department.

### Credit and Noncredit Classes Tuition Refund Table

<table>
<thead>
<tr>
<th>Class duration</th>
<th>Prior to start of classes</th>
<th>Drop Sunday week 1 by midnight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classes 4 weeks or longer</td>
<td>ALL of the tuition will be refunded.</td>
<td>ALL of the tuition will be refunded.</td>
</tr>
<tr>
<td>Classes 2 to 3 weeks</td>
<td>ALL of the tuition will be refunded.</td>
<td>NO tuition will be refunded.</td>
</tr>
<tr>
<td>Workshops &amp; classes, 1 week or less</td>
<td>ALL of the tuition will be refunded if dropped three working days or more before the workshop begins.</td>
<td>NO tuition will be refunded.</td>
</tr>
</tbody>
</table>

It is the student’s responsibility to drop/withdraw from any class/classes he or she does not plan to attend. No refunds or adjustments of tuition and fees will be granted after stated refund deadlines.

**ASLCC Student Activity and Registration Fees**

If the college cancels your only credit class, or you withdraw from all your classes during the refund period, the college automatically refunds these fees.

**How Refunds Are Processed**

- Refunds are first applied to any outstanding balance owed.
- If financial aid or a sponsoring agency paid your account, refunds are credited either to you or to the funding source, as appropriate.
- If you have paid your account with VISA/ MasterCard, a refund will be issued to the student by check or onto the laneccdebit card.
- The college applies all other refunds as a credit to your account. **Refund checks are mailed or loaded onto the laneccdebit card, weekly.**
- The Transportation Fee is nonrefundable after the full-term refund deadline. No exceptions will be made.

If medical/emergency circumstances beyond your control prevent you from dropping your classes by the refund deadline, you may request an exception to the refund policy. You must complete the Request for Exception to Refund Policy form available at lanecc.edu/esfs/enrollment-services-forms.html and attach medical/emergency documentation of the circumstances. Petitions received after the eighth week of the term and/or without documentation will be denied.

**Statement of Non-Discrimination**

If you have a documented medical or emergency reason why you dropped your class after the refund deadline, you can fill out the Petition for Exception to Refund form and submit it to Enrollment and Student Financial Services. A committee will review your request and respond.

Contact Enrollment and Student Financial Services, 541.463.3100, 4000 E. 30th Avenue, Eugene OR 97405, for petitions about credit classes.

The deadline for submitting petitions requesting an exception to the refund policy is 5 p.m. on Friday of the eighth week of the term. Refund requests submitted after this date will only be considered when a medical emergency prevented you from using myLane to drop classes by the refund deadline. Even if your petition is approved, you may still owe fees and finance charges.

For information about exceptions to the refund policy, call Enrollment and Student Financial Services at 541.463.3100.

Contact the following departments for refund petitions about Community Education classes.

- Small Business Development Center, 101 W. 10th Avenue, Suite 304, Eugene OR 97401
- Continuing Education, 101 W. 10th Avenue, Eugene OR 97401
- Workforce Development, 4000 East 30th Ave., Eugene OR 97405-0640

If a student does not plan to attend a class, official withdrawal from that class is the student’s responsibility.
Academic and Student Services

Academic Advising
Building 1, Room 103, 541.463.3200, counsdep@lanecc.edu

Academic advising is available through the Counseling and Advising Center. Lane Community College's academic advising model is replicated in many two- and four-year institutions, and meets the standards of the National Academic Advising Association. The model addresses the student's development from enrollment through graduation. Services encompass student retention, academic advising (student advocacy, program development, course selection, career advising, scheduling and decision-making, and referrals) as well as career and retention counseling (career and life planning, counseling and dealing with obstacles including personal issues that impede success).

Lane uses a comprehensive centralized professional advising unit, with academic advisors, counselors, faculty, and other key staff. Advising teams have shared responsibilities to provide a managed advising system for students. The advising teams are clusters or “neighborhoods” identified with: instructional programs, geographical areas and diversity services areas. An administrator oversees all advising functions.

The Counseling and Advising Center offers students several academic advising services. They help students:

- learn about Lane services and programs,
- understand college procedures,
- obtain up-to-date written information about requirements for Lane programs and degrees,
- plan course schedules to meet personal needs and program requirements,
- understand how credits from prior colleges may be used toward Lane degrees and certificates,
- select from Lane courses that meet degree requirements at Lane and at four-year schools throughout the state,
- and develop ways to do well in classes and feel satisfied about school.

A counselor and academic advisor are assigned to each academic division and to students who are undecided about a major. A list of transfer programs, counselors and academic advisors appears on page 48. A list of career technical programs, counselors and academic advisors appears on pages 49-50. A list of counselors and academic advisors for students who are undecided is located in Counseling and Advising Center.

Students learn about counselor or academic advisor availability at the reception desk in the center, by calling 541.463.3200, or by directly contacting the counselor or academic advisor. Schedules for the term are posted along with online academic advising resources by going to Lane's website at lanecc.edu, choose Moodle, choose Academic Advising, choose the Academic Advising link for your chosen major or area of interest.

Counselors and academic advisors have in-depth knowledge of academic departments' procedures and resources. New students meet with a department counselor or academic advisor during the program orientation/advisory session. These sessions orient students to their academic programs and provide help with course planning. Students are encouraged to meet with a counselor or academic advisor on a regular basis throughout their stay at Lane.

Representatives from four-year schools in the state make regular visits to Lane Community College. Students considering transfer should meet with these representatives. Schedules of these visits are available in the Counseling and Advising Center.

Class Registration The process known as Advance Registration has been discontinued. Registration for each term is now staged over four days according to the cumulative number of Lane credits earned through studies at Lane (transfer credits do not count). Students are able to easily check to see their registration date and to see if they have any holds or restrictions preventing registration, by going to myLane. For more information, visit the website at lanecc.edu/esfs/registration. For questions, email RegistrationInfo@lanecc.edu.

Academic Learning Skills
Center Building, Second Floor, 541.463.5439

Academic Learning Skills (ALS) offers courses to improve student success in lower division, career technical, and transfer courses. ALS courses offer clear and direct articulation with courses required for the Associate of Arts Oregon Transfer degree. ALS coordinates class sequences and outcomes with the following departments and programs: Adult Basic and Secondary Education; English as a Second Language; Language, Literature and Communication; Health Careers; Mathematics; Learning Communities; and Women in Transition.

Academic Learning Skills includes:

- Credit courses to develop skills The Academic Learning Skills department helps students gain confidence and succeed in college by improving their reading, writing, vocabulary, computer, math, and study skills. Students who are attending college for the first time, who want to improve on previous school performance, or whose goals are to achieve high grades and acquire strong knowledge are provided the instructional coursework to assure their success in college classes.
- Support for students who have specific learning disabilities Multi-sensory approaches to learning are included in many skill-building courses. Students strengthen their basic skills through step-by-step instruction.

Credit Courses Academic Learning Skills offers courses for college credit in lecture, hybrid and online formats. For more information about courses, see the Study Skills and College Prep heading in the course description section of this catalog. Other specialized courses may be found under the following headings in the course descriptions: Mathematics; Computers: Introduction/Information Systems/Computer Science; Computers: Keyboarding; Women in Transition; and Writing.

Developmental Credit Limit Most of the courses in Academic Learning Skills are considered developmental courses. Students may be eligible to receive financial aid for 45-quarter credits (or equivalent) to complete developmental courses. For more information on this important lifetime 45-credit limit (Developmental Credit Limit), contact Enrollment and Student financial Services at 541.436.3100 or visit lanecc.edu/esfs/contact.

Guided Studies Program Guided Studies is designed for students whose placement test scores indicate the need to strengthen academic skills before entering college-level courses. Guided Studies students are required to take appropriate preparatory courses and are restricted from other college-level courses their first term. Students must meet with the Guided Studies counselor/advisor to set up an appropriate academic plan.
Career and Employment Services
Building 1, First Floor, Room 102 in Counseling and Advising Center, 541.463.5167, lanecc.edu/ces, ces@lanecc.edu

Career and Employment Services (CES) is the place to go for help with scholarships, job search, career exploration and planning. Many students enter Lane undecided about their educational and career plans. CES can help students with career assessments, occupational information, employment outlook, information on colleges and universities, and education training requirements. CES staff can guide students to resources that will help them make important decisions about their educational and career goals.

Career Exploration and Planning
- Introductory career assessments for Lane students and community members
- Career advisors available on a drop-in basis
- Help available for clarifying goals, career exploration and planning

Scholarship Resources
- Workshops offered throughout the year
- Annual January workshop, How to Pay for College...In One Day
- Scholarship research at lanecc.edu/ces/scholarships
- Help available for research and scholarship applications

Job Search Assistance
- Job listings for on and off campus jobs at Lane, Job Connection at lanecc.edu/ces
- Help with résumés, cover letters, and mock interviews
- Search job internet sites

Job Fair
- Annual Job Fair held in mid-April
- Opportunity for students to connect and network with local employers
- Job Fair information at lanecc.edu/ces/upcoming-events

Student Service Associates (SSAs) Students trained as peer mentors to work in Counseling and Advising Center and Career and Employment Services. Interested students go to lanecc.edu/ces/student-service-associates

Child Care

Child and Family Department, Building 24, Room 114, 541.463.5517

The child care center is state licensed and nationally accredited program located on the main campus. It provides child care for students, staff and community families. The Child and Family Center is open from 7:00 am to 5:30 pm., Monday-Friday and serves children 30 months to five years old. Preschool classrooms are staffed by professional teachers, Lane students and parents. The center is a lab school for students in the Early Childhood Education program and a cooperative where parents can work to reduce their fees. Child care grant and subsidy assistance is available. For additional information and fee schedules, contact the Child and Family Education Department office.

Family Connections of Lane and Douglas Counties, Building 24, 541.463.3954, or 800.222.3290 Family Connections (FC) is a community-based program that works to ensure the children of Lane students and other families have access to safe, quality and affordable child care. FC provides the following services:

- Providing orientation services for new students.
- Returning to school and adjusting to changes.
- Making career and educational decisions.
- Developing academic programs.
- Improving interpersonal communication skills.
- Coping with stress and depression.
- Resolving personal and family problems.
- Strengthening student success.

During open hours, there is a counselor available to help students with crises or emergencies.

Lane counselors are highly trained professionals with a variety of credentials. All counselors engage in continuing education to maintain

Parents
Parents receive personalized referrals to child care options in Lane and Douglas Counties based on specific family needs. Trained consultants search hundreds of child care listings and offer support in making appropriate child care connections. Parents receive research-based information to help assess the quality of their child care choices.

Child care professionals
Assistance in launching a child care business, training, technical assistance, and resources are offered to people who are interested in caring for children. Training topics include first aid/CPR, business development, and child guidance. Classes are offered evenings and weekends. Professional development scholarship opportunities are available on a limited basis.

Servicios en Español
Servicios en Espanol son ofrecidos y disponibles a todos.

Employers
FC helps employers assess the child care needs of their employees. Enhanced referral services, employer tax credits, dependent care assistance programs, and other family friendly benefit information is available.

Computer Labs

All registered students have unlimited access to open computing labs on the main campus, and at the Downtown, Cottage Grove and Florence Campuses. The technology resource fee paid by each student provides this access.

Open computing lab space is available in two locations. The Library offers laptop computers, netbooks, desktop computers, and Macintosh computers. These resources are available during library open hours. The open lab in Building 2, Room 216 offers thin clients running Windows and Macintosh computers. This lab is open from 8 a.m.-5 p.m., Monday through Friday.

Software includes word processing, spreadsheet, database, graphics, desktop publishing, miscellaneous educational programs, and various program languages. For more information, call 541.463.5288 or see lanecc.edu/it/computerlabs.

Counseling and Advising Center
Building 1, First Floor, Room 103; 541.463.3200; lanecc.edu/counseling; counsdept@lanecc.edu

Counseling provides retention and support services to help students achieve success during their learning experiences.

The counselors, academic advisors and support staff work together to present a variety of services to the diverse student population.

Counselors offer assistance with:
- providing orientation services for new students.
- returning to school and adjusting to changes.
- making career and educational decisions.
- developing academic programs.
- improving interpersonal communication skills.
- coping with stress and depression.
- resolving personal and family problems.
- strengthening student success.

During open hours, there is a counselor available to help students with crises or emergencies.
excellence and currency in services. All counselors subscribe to the Ethical Standards of the American Counseling Association, and Licensed Professional Counselors are bound by the Oregon Code of Ethics. These standards and laws protect student confidentiality and other rights. Personal information discussed with a counselor is private and confidential, unless the student gives written permission to share it with others; it involves potential danger to self or others; it involves child, elder or vulnerable adult abuse; a court orders the release of information; or other exceptions in accordance with Oregon statutes.

Students and prospective students may contact counselors or academic advisors directly during their posted office hours or through Counseling. The center is available to prospective students and new students for orientation and information on a drop-in basis, as well as continuing students for advising or for referral for counseling or advising.

Human Development Classes The teaching component of Counseling is called Human Development. Human Development classes help students with entering college, career and life planning, decision making, maintaining productive personal and work relationships, understanding families and children, parenting skills, and coping with stress and depression. Personal awareness and growth in applied life skills is emphasized.

Some courses with CG, CPSY and HS prefixes fulfill the social science/human relations component for the associate of applied science degrees and certificates, associate of science, associate of general studies degrees and certificates, and count as electives for the associate of arts Oregon transfer degree.

The department offers both credit and noncredit classes. Methods of delivery include classroom, independent study, telecourse, and online.

Counseling and Advising is open Monday through Wednesday, 8 a.m.-5 p.m.; Thursday, 8 a.m.-4 p.m.; Friday, 8 a.m.-2 p.m. Summer term Monday-Thursday, 9 a.m.-5 p.m.; Friday hours vary. Counseling and advising services also are available at the Cottage Grove and Florence centers. Contact these centers for information or appointments.

Credit for Prior Learning Generally, there is no need to take a class when a student has already learned the material, no matter where or how. Four alternative ways of earning credit are listed below:

Credit-by-Examination Credit-by-Examination (CBE) gives students the opportunity to demonstrate they have mastered material covered in a Lane course. In some cases, they take written examinations covering the content of a course. In other cases, they give performances or demonstrations of their skills in certain areas. If they are successful, Lane will award them college credit. Students must have completed at least 12 credits of non-CBE coursework at Lane and must currently be enrolled in at least six credit hours. Many courses may be challenged through the CBE process. Information on procedures and fees is available at Enrollment and Student Financial Services in the lobby of Building 1.

Credit-by-Assessment Students who have experience and knowledge in certain areas may receive college credit for many Lane courses through the Credit-by-Assessment (CBA) process. Examples of relevant experiences are work, volunteer work, travel, certain hobbies, noncredit courses, workshops, and work at schools accredited differently than Lane. If a student can describe and satisfactorily document that such learning satisfies one or more course requirements, faculty members will evaluate these accomplishments and may award course credit. Students must have completed at least 12 credits of non-CBE or CBA coursework at Lane and must currently be enrolled in at least six credit hours. CBA is different from having one’s transcript evaluated, a service of the Student Records Office, and also is different from the Credit-by-Exam procedure. Information on procedures and fees is available at Enrollment and Student Financial Services in the lobby of Building 1.

The maximum CBE and CBA credit which may be applied to any degree or certificate is 25 percent.

College-Level Examination Program and Advanced Placement Students may take exams on many college subjects through the College-Level Examination Program (CLEP) and receive credit for satisfactory scores in both general areas and various other specific subject areas. The credit Lane grants also is granted at most four-year colleges and universities. These credits do not appear on the Lane transcript. Lane accepts the following general examinations: social sciences/history, natural sciences, and humanities (arts and letters). Lane also accepts the following subject examinations: American History I and II, American Literature, Biology, Calculus with Elementary Functions, Chemistry (General), English Literature, French, Microeconomics, Macroeconomics, Spanish, and Sociology. Contact the Enrollment and Student Financial Services/Student Records Office for more information.

Students who have earned credit through the Advanced Placement (AP) program, usually through advanced high school courses, may receive credit for satisfactory scores. You need to provide Lane with an official report. To order a report, contact the College Board/Advanced Placement at 1-888-CALL-4-AP.

There is more information on Lane’s website on scores and exams for both CLEP and AP.

Miscellaneous Training and Credit Credit is granted for military training and for work completed at some proprietary schools. Such credit generally applies only toward a vocational program and does not appear on the student’s Lane transcript. The student should apply for such credit in Enrollment and Student Financial Services, bringing certificates of completion, school records or other available documentation. The student is notified of the credit granted by requesting a general evaluation (request forms are in Enrollment and Student Financial Services and Student Records), and a record is kept in the student’s file. A veteran student will be granted 3 credits of PE (either required or 3 credits in Open Electives) by providing the college with a copy of a DD 214 with an Honorable Discharge.

Disability Resources
Building 1, Room 218, 541.463.5150, (voice); TTY Relay: 711 541.463.4739, Fax; disabilityresources@lanecc.edu; lanecc.edu/disability
Disability Resources collaborates with students, staff, faculty, and community members to create inclusive, equitable, diverse and sustainable learning environments for all.

The department is a resource for creative problem-solving to enhance access in the following areas:

- Admission/registration assistance, advising and advocacy
- Accommodations for classes, including:
  - Test accommodations (extended time, reduced distraction, reader, scribe)
  - Alternate format (computer text with digital audio, Braille)
  - Technology (computer software and hardware, and other devices)
  - Service Providers (sign language interpreter, classroom aide)
- Consultation, referral and disability awareness information
- Accessibility information, maps and basic mobility orientation

Other departments provide the following services:

**Career and Employment Services** Career/job/scholarship information is provided for persons with disabilities.

**Health and Physical Education Department** Health and PE teaches a Progressive Integrative Fitness course for temporarily or permanently disabled persons. The instructor sets up an individualized exercise program for each student, taking into account the student’s disability, needs and goals.

**Library** The following technology is available for use in the library; ergo and split keyboards, large screen monitors, scanners, CCTV, headphones, recorders, closed caption decoders, Alva Braille Display, JAWS, Natural Reader and Wynn screen reading software, Dragon Naturally Speaking speech to text software, Inspiration and Zoomtext. The library is also equipped with automatic doors and wheelchair accessible adjustable workstations.

**TRiO Learning Center** Students eligible for Disability Resources may also be eligible for services through Lane’s TRiO Programs.

**Enrollment and Student Financial Services**

Building 1, First Floor, 541.463.3100, 877.520.5391, TTY 541.463.4722, lanecc.edu/esfs/ or AskLane@lanecc.edu

Enrollment and Student Financial Services provides services for new and returning Lane students. These services include:

- Admission assistance
- Financial aid advising
- Cash payments
- LCC Photo ID cards (optional)
- Receiving documents from students
- Assistance with myLane on:
  - Obtaining financial aid information
  - Registration
  - Ordering official transcripts
  - Making credit card, debit, or check payments
  - Updating address, telephone and e-mail information
  - LaneCC Debit Card

**Hours of operation (subject to change):**

Monday-Thursday, 9 a.m. - 5 p.m. and Friday 9 a.m - 2 p.m. The college is closed on Fridays during summer term.

**Food Services**

Food services provides several dining options around campus for students, faculty and staff. The Cafeteria, the main dining operation located on the first floor of the Center building, provides an assortment of choices for breakfast, lunch and dinner. The Snack Bar features traditional “grill” fare including chicken tenders, burgers, specialty sandwiches, and grab-n-go items. The Foodcourt features pizza, made-to-order sandwiches, salads, soups, Pan-Asian (Asian inspired entrees), the Carver’s Station (entrees like “Mom” used to make), Veggie Ville (vegetarian and vegan entrees), and an assortment of drinks and snacks.

Also located in the Center building is Blenders Espresso Bar, which features fresh coffee beverages, blended smoothies, sandwiches, salads, grab-n-go items and fresh in-house pastries. All coffee served is fair trade certified and 100 percent organic.

Located on the first floor of the Health and Wellness Building, is the Juice Bar. The Juice Bar will feature organic coffee beverages, real fruit smoothies, handmade soups and salads, fresh baked pastries, and healthy grab-n-go snacks.

Food services also has two limited-service convenience operations that operate on a cash only basis. The Terrace Cafe located in Building 16 on the second floor serves drip coffee, fresh pastries and grab-n-go snacks. The Hot Dog Cart, located near Bristow Square and when weather permits offers made-to-order burgers, Philly cheese steaks, brats and dogs with all the fixings.

A full line of vending machines located throughout campus offer traditional vending and healthy items.

Search for Lane Community College Foodservices on Facebook for the most up-to-date information on hours of operation, daily menu items and specials.

**Hours of Operation (subject to change):**

<table>
<thead>
<tr>
<th></th>
<th>Mon-Thurs</th>
<th>Fri</th>
<th>Sat-Sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foodcourt</td>
<td>7-10:45 a.m.</td>
<td>7-10:45 a.m.</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>11:15 a.m.-3 p.m.</td>
<td>11:15 a.m.-3 p.m.</td>
<td>Closed</td>
</tr>
<tr>
<td>Snack Bar</td>
<td>10:30 a.m.-2 p.m.</td>
<td>10:30 a.m.-3 p.m.</td>
<td>Closed</td>
</tr>
<tr>
<td>Blenders</td>
<td>7 a.m.-6 p.m.</td>
<td>7 a.m.-3 p.m.</td>
<td>Closed</td>
</tr>
<tr>
<td>Juice Bar</td>
<td>7 a.m.-3 p.m.</td>
<td>7 a.m.-3 p.m.</td>
<td>Closed</td>
</tr>
<tr>
<td>Terrace Café</td>
<td>7 a.m.-3 p.m.</td>
<td>7 a.m.-3 p.m.</td>
<td>Closed</td>
</tr>
<tr>
<td>Hot Dog Cart</td>
<td>10:45 a.m.-3 p.m.</td>
<td>10:45 a.m.-3 p.m.</td>
<td>Closed</td>
</tr>
</tbody>
</table>

**Health Clinic**

Building 18, Room 101 541.463.5665 lanecc.edu/healthclinic/

The LCC Health Clinic provides health care services to Lane students and employees, including treatment for acute illnesses, minor injuries, and some chronic conditions. Please make an appointment. We also provide information and referrals to community resources.

The mission of the LCC Health Clinic is to provide accessible, quality health care to the students and employees of Lane Community College. Our goal is to maximize LCC community health and enable students to remain in school. The Health Clinic staff works in a collaborative partnership with the students and employees, with respect for diverse beliefs and needs, toward informed decisions about disease prevention and management of health conditions. The clinic...
provides education to individuals and groups to enable them to be better consumers of health care and stewards of their own health.

**Services available to eligible students and employees**

Students who pay the Health Clinic Fee when registering for classes on the main campus and employees who pay the Health Clinic fee are eligible for these services:

**Free Services**
- Office visits
- X-ray referral (the clinic does not pay for x-rays)
- Limited follow-up for chronic illness
- Diagnosis and treatment of most acute illnesses
- Treatment of minor trauma including sprains, strains, cuts and abrasions
- Assistance managing mental health issues
- Tobacco cessation support
- Loan of crutches

**Low Cost Services**
- Specialized procedures such as spirometry, wart treatments and suture removal
- Immunizations including flu vaccine
- EKGs
- Lab testing, on-site and reference lab work
- Family planning/contraceptives, pregnancy testing, pap smears
- Men’s and women’s sexual and reproductive health care
- Physicals for LCC programs and athletics

**Oregon Contraceptive Care**
- A Medicaid funded project offers limited FREE services such as birth control, exams, testing and supplies to those who are eligible. See our website: lanecc.edu/healthclinic

**Services available to all students and employees regardless of eligibility**

**Free Services:**
- Emergency response
- First aid
- Blood pressure checks
- Referrals to community agencies and health providers

**Services available to individuals with disabilities**
- Limited personal care assistance
- Medication assistance

**Payment methods** Payments for our fee-based services are **due at time of service** (cash, check or charge to an open LCC account). Reference lab costs can be billed directly to your insurance by the reference lab.

**Confidentiality** All services provided are confidential. A confidential medical record is established for each patient. This record is kept for 10 years. Federal and Oregon State laws govern the release of these records.

**Health Insurance** Lane Community College does not sell health insurance or handle any insurance claims.

**Referrals** Patients with health problems beyond the scope and mission of the LCC Health Clinic are referred to specialists in the community, urgent care centers, or local emergency rooms at the patient's expense. If an ambulance is required, the **patient will be responsible for costs incurred**.

**Health Clinic Hours** The health clinic is open Monday through Friday during fall, winter, and spring terms on days that classes are in session. Appointment times are available from 8:20 a.m. until 4 p.m. The Health Clinic is closed from 12:15 p.m. to 1:15 p.m. for lunch. The clinic is also open summer term on a limited basis. Please call for times. Practitioners are not available on weekends, holidays or during school breaks. For more information, see the website, lanecc.edu/healthclinic.

**Housing**

**Titan Court** is a 6-story apartment community located in Downtown Eugene, Oregon. This certified LEED Gold community features Studio, 2 bedroom shared, and 4 bedroom apartments with an all-inclusive utility package. These apartment homes are leased individually by the bedroom and come fully furnished for an easier move. The brand new building includes upgraded lighting, enhanced cabinetry, brand new appliances, high-end finishes, and a card access entry system. In addition, each unit is furnished with a 32” flat-panel HDTV with cable service. All residents are able to take advantage of the properties amenities which include the multimedia room with the large screen projector, on-site high efficiency laundry machines, quiet study lounges on each floor, free bike loan program, indoor bike storage and free onsite trash and recycling areas. Titan Court is within walking distance to many downtown attractions including the public library, bus station and several restaurants. Titan Court offers an engaging students first program filled with resident events to encourage social interaction and academic success. For more information, visit titancourt.com or call 541.344.2828.

The following options also are available for Lane Community College students taking credit classes leading to a degree, certificate or transfer program. Students must meet application and income criteria determined by the agency operating each complex and must complete a separate application process for each location. Once the application process is complete, space will be allocated as available.

**Bagley Downs, 19th Avenue between Pearl and High, Eugene**
- St. Vincent de Paul offers these units in partnership with Lane. All units are two bedroom.
- Call 541.687.5820, ext. 130 to get on the Lane Community College waiting list. As units become available students on the list will be contacted to complete application and verify income and student status.

**Aurora Building, 100 East 11th, Eugene**
- Students can apply in person at the Lane County Housing Authority, 300 West Fairview, Springfield. Some students may already be on the waiting list at these places. Students also may be on lists at other HACSA complexes. Contact the Lane County Housing Authority, 300 West Fairview, Springfield, and also ask to be placed on the Lane Community College waiting list.

**Firewood, 2139 West 12th, Eugene**
- Students who are dual-enrolled may access the UO Housing Office, 541.346.4277.

Many students reside in rental apartments throughout the Eugene-Springfield area. Lane’s Student Life and Leadership Development office provides housing referral information to Lane students. Housing information also can be found at regisctrsguard.com and at lanecc.edu/studentlife/housing-information.
Contact Lane Community College Student Life and Leadership Development, 541.463.5336.

**International Programs**

Building 11, Room 235; 541.463.3434; lanecc.edu/international

Admissions/Advising and Student Activities: Bldg. 11, Room 235

Director: Jennifer Falzerano

Administration: Christine Marshall, Shi Nae DeCoster

Admissions/SEVIS Information: Jane Marshall, Colby Sheldon, Alicia Madani

Academic Advising/Student Services: Jennifer Hare, Dao Tran and Beth Schenderlein

More than 300 international students from over 30 countries attend Lane Community College. Students who are in the United States on an F-1 student visa can study in either the IESL Program or in credit level classes. International Programs helps student create a positive and successful educational experience that includes an orientation to the college and community, immigration advising, academic advising, transfer planning, assistance with housing and recreational activities. Opportunities are available throughout the school for both international and American students, including on-campus activities and enrichment trips to local, regional and statewide places of interest. Students from all over the world join together and share their cultures in activities such as Conversation Tables, Coffee Talk social hours, holiday celebrations and an annual International Day. Activities focus on making friends and learning about each other and other cultures.

International Programs supports students in maintaining their F-1 status and with SEVIS rules. SEVIS requirements mandate that international students successfully complete 12 credits/18 hours per term with a 2.0 GPA. Support is provided to international students with difficulty meeting this requirement through the International Success Program, which includes tutoring, required classes and extra advising. This is offered to help students meet their academic goals and stay in status with immigration rules and regulations. Students who do not meet these requirements have their SEVIS status terminated and must return home or transfer. For information about the SEVIS rules see lanecc.edu/international/immigration-policies.

**Legal Services**

Building 1, Room 206, 541.463.5365

Legal advice is free and available to all credit students on main campus through the mandatory student activity fee. An attorney is available 20 hours per week with limited hours during summer term. Appointments may be made through the Access the Law office, 541.686.4890, 245 W. 13th Avenue, Eugene.

**Library**

Center Building, Second Floor, 541.463.5220

The Library provides resources for instructional, research, recreational, and general information needs of students, faculty, staff and community residents. The collection includes over 65,000 volumes of books and audiovisual materials, subscriptions to print periodicals, and a wide variety of online databases and e-books. Remote access to the Library’s catalog and full-text online databases is available to Lane students and staff. The Library’s website is lanecc.edu/library.

**Instruction and Services** Librarians provide information assistance to individual students, faculty and staff; offer classes in library research skills; present orientations to classes; assist with the preparation of research assignments; prepare specialized bibliographies; design course-specific web pages; and work with faculty to develop the Library’s collection and provide curriculum support. Lane students can borrow materials from libraries in the Pacific Northwest and beyond. The library also provides computers and equipment, group study rooms, video viewing, library classroom, and assistive technology.

**Hours** The Library is open 7:30 a.m.-7 p.m. Monday through Thursday and from 7:30 a.m.-5:30 p.m. Friday. The Library is closed Saturday and Sunday.

**Multicultural Center**

Building 1, Room 201, 541.463.5276

Drop by the Multicultural Center lounge and relax, socialize and enjoy tea or coffee in a racism and homophobia-free zone. The center strives to create a space that is safe and supportive of all people, a space that inspires students to stretch and realize their potential.

The center offers support services to students of all ethnic backgrounds to ensure their academic success. Center staff can assist with admissions and financial aid information; referral to community resources including food, shelter, childcare, and medical and dental health; participation in student clubs and associations; starting your own student club; and organizing events throughout the year that promote inclusion and understanding.

**Multicultural Center**

Edificio 1, sala 201, 541.463.5276

Venga a la sala del Multi-Cultural Center y relájese, socialice y disfrute té o café en un ambiente libre de racismo e homofobia. El centro crea un lugar que es seguro para todas las personas, es un lugar que inspira a los estudiantes a extender y desarrollar sus potenciales.

El Centro ofrece servicios de apoyo a estudiantes de todos los étnicos para asegurarles el éxito académico. El personal del Centro puede asistirle con información sobre admisión, ayuda financiera, participación en clubes y asociaciones estudiantiles, como empezar su propio club estudiantil, organizar eventos durante el tiempo escolar para promover entendimiento e inclusión. También encontrara información sobre servicios disponibles hacia la comunidad, tales como: comida, refugio, guarderías, y servicios de salud medica y dental.


Music, Dance and Theatre Arts

Music Music students at Lane have many opportunities to perform publicly as soloists and as members of vocal and instrumental ensembles. Lane has a chamber choir, concert choir, gospel choir, vocal jazz ensemble, symphonic band, jazz ensemble, chamber orchestra, and various small ensembles. These groups perform regularly at term's end and on special occasions, including tours. Solo musicians are encouraged to perform in showcases held once or twice a term, usually at noon, on the main stage. Some of Lane's music ensembles are open to all students, others require auditions. Whether students already have some music training or want to get started, they can share the joy of making music at Lane.

Dance Lane's dance program offers a variety of performance opportunities for dance students at all levels. "Open Show" allows students to gain performance experience in a fun, informal setting at the end of each term. "The Works" Student Dance Concert is an annual concert showcasing student's choreography and dancers in a formal theatrical setting. Students move from the studio to the stage and learn about lighting, costuming, and performance skills. Advanced dancers are invited to audition for the Lane Dance Company which performs in the annual faculty concert and in several community venues. The Lane Dance Company represents the quality and breadth of our program through participation in the American College Dance Festival in the spring. "Collaborations" highlights the talents of faculty, students, and guest dancers. Hip-hop, African, modern, tap, jazz dancers come together and share their love and passion for dance.

Theatre Productions Productions are the logical outcome of class work, and Lane strongly encourages its theatre arts students to audition for shows. Public performance is the ultimate test of skill and courage. The Theatre Arts program produces several shows a year. Casting policy puts students first and often includes guest artists and performers from the greater Lane community and beyond. Lane has earned a reputation for producing some of the best shows in the area. In addition to faculty directed plays, the Student Production Association produces shows throughout the year including an evening of one act plays written by and for students. Lane faculty maintains strong relations with other producing groups in the community, often recommending students upon the request of that organization and providing students an opportunity to receive credit for their work. Talent grants and scholarships are available. For more information, call 541.463.5648.

Photo ID

A Lane Community College Photo ID is not required for conducting business at Lane. Many business processes will require a form of photo ID, including a valid driver's license, Lane photo ID or passport. The $5 charge of a Lane Photo ID is not included in the ASLCC student activity fee. Any faculty/staff member or student currently registered at Lane may purchase a Lane Photo ID from Enrollment and Student Financial Services on the main campus. Replacement cards are $5. Photo IDs are available beginning the Tuesday of the second week of each term. For information and hours, contact Enrollment and Student Financial Services at 541.463.3100.

Sports and Fitness

Fitness Education Center, Building 5, Room 101, 541.463.3987

The Fitness Education Center provides state-of-the-art exercise equipment and educational instruction in the area health and fitness. Staff and students gain access to the center during usage hours by registering for Fitness Education: Introduction and Fitness Education: Orientation. Students and staff may continue to take the course by registering for Fitness Education: Returning. Students satisfy course requirements through attending exercise sessions during usage hours. The class is available for credit or non-credit through Continuing Education. The environment is supportive, not competitive, educational and encourages people of all fitness levels and abilities. In addition, a professionally trained and dedicated staff is always available for personal guidance.

Potential benefits of participation in a regular exercise program include: increased energy, improved ability to cope with stress, reduced risk of developing chronic diseases, increased focus and concentration, weight maintenance, and improved self-image.

Recreational and Club Sports Program, Building 5, Room 204, 541.463.5293

A current valid student ID or other proof of current term enrollment is required for participation/purchase.

The Recreational Sports program offers a selection of services at discounted rates for eligible students. These include: community sports, family activities, trips and outings. Recreational Sports special events provides a variety of opportunities for participation in individual and team activities. Eligible Lane students may participate in local athletic leagues at discounted rates. The one-day and weekend events offer an opportunity for social growth and recreational participation in a safe and fun environment. By design, the program is intended to create a climate where everyone is welcome. Participation in the program is voluntary and determined by interest. Please visit the Recreation Office in the Building 5 foyer area for current term offerings. All recreational sports activities are governed by regulations provided in the Recreational Sports Handbook and supervised by the Recreational Sports office.

Intercollegiate Athletics, Building 5, Room 205, 541.463.5599

Lane Community College sponsors intercollegiate athletics that encourage an emphasis on academics, personal development, personal enrichment, community support, career development, and athletic excellence. The intercollegiate athletic program offers students opportunities to compete in eight varsity sports: Men's and Women's Basketball, Men's and Women's Cross Country, Men's and Women's Track and Field, Men's Baseball, and Women's Soccer. Teams participate in the Northwest Athletic Association of Community Colleges (NWAC) with 35 other Oregon, Washington, and Canadian colleges. The NWAC governs the conference, which is divided into four main regions (north, east, south, and west). Lane competes in the southern region. Qualifiers from each region compete annually for conference championship titles.

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The administration of the Athletic program is conducted through the Health, Physical Education and Athletic Division. The division chair oversees all employees of the Intercollegiate Athletic and Recreational programs. Personnel include the athletic director, head coaches, assistant coaches, athletic trainer, athletic administrative specialist, student recreation director, recreation assistants, and student academic coordinator.
Student Government: ASLCC
Building 1, Room 210, 541.463.5290

The Associated Students of Lane Community College (ASLCC) legislative body is the Senate, composed of four executive officers, ten senators, and seven student staff positions (appointed, non-voting positions). The purpose of ASLCC is to represent student interests and concerns and to promote student involvement in all phases of college life. Financing for ASLCC comes from the mandatory $48.40 student activity fee.*

Contact the ASLCC president (541.463.5335), vice president (541.463.3197) or the Student Activities Office if you would like to:
- serve on a college committee.
- form an organization.
- plan an activity.
- become involved in student government.
- make suggestions and express concerns.

* This fee is subject to change pending ASLCC elections.

Student Life and Leadership Development
Building 1, Room 206, 541.463.5336

The Student Life and Leadership Development office coordinates and supervises the following areas: Student Life Programs; Black Student Union, Latino Student Union, QSA, Native American Student Association, Phi Theta Kappa, and other student clubs and organizations; Associated Students of Lane Community College (ASLCC) including the ASLCC senate and staff, ASLCC Legal Services, Cultural Events and Programs, Recreational Sports, Oregon Student Association, and the Oregon Student Public Interest Research Group.

Student Life programs provide students with opportunities to develop and enhance leadership skills and gain experiences in administration, budget development, computers, programming, and communication through participation in ASLCC, committees, cultural programs, and workshops.

Active clubs vary from year to year and represent many student interests on campus. Students are encouraged to organize new clubs and special groups compatible with the spirit of the college community. Students interested in contacting specific clubs can stop by Student Life and Leadership Development office. Groups or individuals interested in forming clubs and organizations should contact the ASLCC Campus Events Director at 541.463.5330.

The Student Life and Leadership Development office is open Monday - Thursday, 8 a.m.- 6 p.m. and Friday, 8 a.m.- 5 p.m.

Black Student Union, Building 1, Room 201, 541.463.5340

The Black Student Union (BSU) is a student-based organization focused on the cultural, social and academic needs of African-American students attending Lane. It seeks to build cultural and community bridges in the general context of the academic environment. The BSU is involved with the sponsorship of three campus/community events during the academic year: Kwanzaa, the Martin Luther King, Jr. Celebration, and Black History Month.

The BSU is open to all students, regardless of race, creed, color, religious affiliation, or sexual orientation. Membership requires a commitment to the BSU mission. BSU is committed to the development of cross-cultural ties with all groups on campus and in the community at-large. The faculty advisor is Greg Evans.

Gender and Sexuality Alliance, Building 1, Room 206, 541.463.5331

Queer Straight Alliance (QSA) is dedicated to creating alliances between the local queer population and its straight allies. The primary objectives of the QSA include educating the college and community groups about homophobia, heterosexism, and queer experiences; raising awareness about anti-queer legislation at the state and local levels; providing a safe space for open discussions about sexuality and gender issues; and providing queer-positive outreach to local high schools and community organizations.

Latino Student Union, Building 1, Room 201, 541.463.3236

The goal of the Latino Student Union (LSU) is to unite, educate and empower Chicano, Mexicano, Latino, Carribbean, and Hispanic students attending Lane. LSU provides personal, social and academic support and encourages bicultural leadership skill development to serve the needs of the growing Latino community in Lane County. LSU assists with Lane’s recruitment and outreach activities to high school students, including the Puertas Abiertas Leadership Academy. The faculty advisor for the LSU is Jim Garcia.

Native American Student Association, Building 1, Room 201A, 541.463.5238

The Native American Student Association (NASA) is an organization established to provide Native American students an environment which supports traditional cultural values and beliefs and academic achievement. NASA’s priority is fostering a positive educational environment for Native American students while they are attending Lane. NASA assists all Native American students in maintaining contact with their tribal educational and financial departments, family, and the Bureau of Indian Affairs. Contacts are supported through the NASA faculty advisor and the network of Lane advisors. NASA openly welcomes all students at Lane to actively participate in NASA events and feel at ease to ask questions about tradition, heritage and the history of the Native American people. The Native American Student Advisor is James Florendo.

Phi Theta Kappa Honor Society, 541.463.5345

Phi Theta Kappa is the only honor society for students enrolled in two-year colleges. It originated in 1918 in Mississippi and has over 1,000 chapters which honor students' academic achievement in every discipline. The Sigma Zeta Chapter began at Lane in 1968 and is one of the oldest chapters in Oregon.

To join, students must currently be enrolled in a degree, certificate or transfer program, have completed 12 full-time or 18 part-time credits, have a GPA of 3.25 or better, and be recommended by two members of the faculty as being self-motivated and committed to excellence. There are one-time dues which are payable in several options.

Student Publications
Denali, Building 18, Room 213, 541.463.5897

Denali is LCC's literary and visual arts magazine published once a year. Original poetry, prose, visual and graphic arts are accepted for evaluation by a student-run editorial board.

Students are employed to assist in editing and production of the magazine and can receive Cooperative Education credit in journalism, graphic design or media arts. Denali operates under the guidelines of the LCC Media Commission and is distributed free of charge to Lane students and staff and to community members of Lane County.

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Students wishing to submit copy or art, or become involved in any aspect of producing the magazine may contact the Denali editor at denali@lanecc.edu.

Students interested in earning Cooperative Education credit may contact Cooperative Education Coordinator Tamara Pinkas at 541.463.5011.

**Torch, Building 18, Room 212, 541.463.5655**

The Torch is an award-winning, student-produced, weekly campus newspaper with an average circulation of 3,000 copies. Published by authority of the Lane Community College Board of Education through the LCC Media Commission, it is an autonomous newspaper free from censorship by the college administration, faculty and student government.

The Torch serves three purposes: it provides news and information of importance and interest to Lane students and staff; it serves as a learning laboratory for students of journalism, graphic arts, photography, publication design, web design, and advertising; and it provides a communication channel for student commentary and debate. All Lane students may submit guest commentaries and letters for publication in the Torch.

Cooperative Education credit in journalism, graphic design, photography, web design, and media arts is available for students working on the Torch. Students interested in joining the Torch staff as writers, photographers or designers may contact Paige Frank, news and editorial adviser, at 541.463.5654 or Dorothy Wearne, production adviser, at 541.463.5656.

**Student Service Associate (SSA)**

The Student Service Associate (SSA) program was designed to improve services provided by Career and Employment Services and the Counseling Department through the use of peer mentors. SSAs are trained paraprofessionals who guide fellow students with regard to college resources, services and procedures. SSAs serve as positive role models, provide outreach to diverse student groups, and assist with campus-wide events. In addition to serving others, SSAs gain skills and knowledge that benefit them both personally and professionally. Lane’s SSA program has been in effect since the 1970s and serves as a model for programs throughout the state.

Students interested in becoming a SSA should contact Career and Employment Services, Building 1/Room 102, 541.463.5167 in April to apply for the upcoming year. For more information, visit lanecc.edu/ces/student-service-associates.

**Student Snack Shack**

Building 1, Second Floor, 541.463.5343

The student run snack shack is offered through Student Government and sells bagels, muffins, cold drinks, candy, chips, fruit, yogurt, coffee, hot dogs, fresh sandwiches, etc. for students on a daily basis. Hours vary from 8 a.m. - 3:30 p.m. most days. Free coffee is offered every Wednesday.

**Substance Abuse Prevention**

The Recovery Center, Building 1, Room 226, 541.463.5178

The Recovery Center (“Recovering Sobriety, Recovering Culture”) offers comprehensive and confidential substance abuse prevention services for students and staff. Services include information, referral and individual and group support, counseling about issues which affect students, staff and their families. Support groups are available to support recovery or simply to gain information on a variety of issues including alcohol and other drug abuse, smoking cessation, eating issues, parenting, co-dependency, and related problems. The center suggests a wide variety of choices based on each individual’s circumstances. The center does not advocate any particular program of recovery or self-help, other than what works.

The Recovery Center facilitates the formation of student-run support groups on topical issues such as Narcotics Anonymous and Alcoholics Anonymous. While these meetings are listed in the community as open meetings, they are facilitated by Lane students and therefore are subject to time changes from term to term. They are not held during finals week and school breaks.

All services are open to currently enrolled Lane Community College students and their families in credit, Adult Basic and Secondary Education, and Workforce Development classes. There is no cost to students or their families. Most services are provided by professionally trained staff. Information and referral services are provided by trained volunteers and students.

All services provided are confidential. Information is not released without student permission, except upon court order. Office hours for fall, winter and spring terms are 9 a.m. to 5 p.m., Monday through Friday. The center is closed summer term.

For more information, e-mail: harrism@lanecc.edu or call the center at 541.463.5167 or visit lanecc.edu/counseling/substance-abuse-prevention.

**Sustainability**

Lane’s commitment to sustainability is best summarized by its sustainability core value of:

- Integrating practices that support and improve the health of systems that sustain life.
- Providing an interdisciplinary learning environment that builds understanding of sustainable ecological, social, and economic systems, concern for environmental justice, and the competence to act on such knowledge.
- Equipping and encouraging all students and staff to participate actively in building a socially diverse, just, and sustainable society, while cultivating connections to local, regional, and global communities.

Lane has many degree programs, classes, and extra curricular activities related to sustainability. Sustainability Associate of Applied Science degrees are:

- Energy Management Technician
- Renewable Energy Technician Option
- Resource Conservation Manager Option
- Sustainability Coordinator
- Water Conservation Technician

Extra-curricular activities include several student clubs:

- Global Health-Power to Change, Contact: Susie Cousar at 541.463.5271 or cousars@lanecc.edu
- Green Chemistry Club, Contact: John Thompson at 541.463.5199 or thompsonj@lanecc.edu
- Learning Garden Club, Contact: 541.463.5899
- Oregon Student Public Interest Research Group, Contact: 541.463.5166 or aspirg@lanecc.edu

To find current sustainability events and to learn more about sustainability at Lane visit the website at lanecc.edu/sustainability.
The Titan Store and Market is open Monday-Friday, 7:30 a.m.-4:30 p.m. The Titan Store at main campus also is open extended hours during Book Buyback.

TRiO Programs

TRiO Regular
Building 1, Room 219, 541.463.3131, lanecc.edu/trio/

TRiO STEM (Science/Technology/Engineering/Math)
Building 12, Room 201, 541.463.3138, lanecc.edu/triostem

TRiO programs at Lane Community College help students succeed. These federally funded programs have the goal of helping students stay in school and successfully graduate from Lane Community College and if desired transfer to a four-year institution. The services provided to eligible students assist in meeting varied challenges of college life and are free of charge. TRiO staff are available to assist students individually with their concerns.

TRiO offers advice, support and encouragement to students; individual and small group tutoring with emphasis in math, science, writing, and computers; computer lab; academic advising; personal and career counseling; information and referral to services on and off campus; mentoring; cultural enrichment activities; study groups; special workshops and classes; assistance with transfer planning; and visits to Oregon four-year colleges and universities.

Eligibility

The following criteria must be met to qualify for TRiO.

• enrollment or acceptance for enrollment at Lane Community College.
• working full-time toward a degree at Lane and have a need for academic support.
• U.S. citizen or registered permanent resident.
• one or more of the following applies:
  – neither parent received a four-year degree
  – qualify for financial aid or meet financial need guidelines
  – have a documented disability that interferes with education

Tutoring Services
lanecc.edu/tutor/

Tutoring Services coordinates free drop-in tutoring in many subject areas and centers on main campus. All tutoring is free to currently enrolled Lane students and provides one-on-one assistance in academic endeavors. Tutors will clarify information presented in class or textbooks, help students learn how to think about concepts in courses, engage in discussing ways to work problems, help with effective ways to study and learn, and offer support and encouragement.

Tutors will not complete a student’s homework, edit papers, help with take-home tests, rescue, or do problems without direct student involvement and critical thinking in the process of learning. Students are expected to take responsibility for their own learning, but tutors can empathize with the difficulty of a subject and offer coaching and guidance to make the process easier. For assistance in specific areas, visit the tutoring centers listed below. For general questions, contact Liz Coleman, Tutoring Services Coordinator by phone at 541.463.5783, email at coleml@lanecc.edu or come to Tutor Central in the Center Building, Room 208.

Tutor Central, Center Building, Room 210, 541.463.5783 (Liz Coleman) lanecc.edu/tutor/tutor-central

Open during all academic terms. Tutor schedules are posted on the

Testing Office

Building 1, Room 116, 541.463.5324, lanecc.edu/testing, testingoffice@lanecc.edu

For current information about Testing Service office hours, fees, to make an appointment and other details, please visit lanecc.edu/testing.

Lane Community College offers a wide range of tests to students who want help in understanding themselves and making wise career decisions. The college uses tests as one of several counseling/advising tools, not merely as a record of performance. Testing Services tries to provide all students an opportunity to discuss their test results with a counselor/advisor who will assist them in exploring the meaning and implications of their test results.

Any current Lane student may use Testing Services, and in many cases people who expect to become Lane students may use it. Students who wish to take vocational interest surveys and personality inventories need to see a counselor to determine if a test is desirable and to get a referral. However, students do not need a referral to take GED tests, screening exams conducted for various departments, or the placement tests for new students in reading, writing and math. FAA tests require authorizations in most cases.

Occasionally, in the process of doing research, the college may also require tests of various students or groups of applicants.

Placement tests

Placement tests also are available at the Cottage Grove and Florence centers, and many local high schools. Vocational interest surveys are available through counselors at Cottage Grove and Florence.

Many kinds of tests and assessments are available:

• Placement tests in reading, writing, and math
• General Educational Development (GED) tests for people wanting their high school Certificate of Equivalency
• Vocational interest surveys
• Personality inventories
• FAA computer-assisted tests for airplane pilots and mechanics
• Screening tests required for entry into some programs with limited enrollments
• FCC computer-assisted tests for radio applications licenses

Titan Store (Bookstore)

Main Campus: Center Building, Third Floor, 541.463.5256 titanstore.lanecc.edu.

Downtown Campus Titan Store and Market: 975 Charnelton St., Eugene, 541.6156, titanstore.lanecc.edu

The Titan Store carries course materials, including textbooks, e-books, textbook rentals, general books, art supplies, computer hardware and software. Students may also purchase clothing, gifts and school supplies at the Titan Store. Course materials are available online at titanstore.lanecc.edu.

The Titan Store is open Monday - Thursday, 8 a.m.-5 p.m. and Friday, 8 a.m.-4 p.m. Summer term hours are Monday-Thursday, 8 a.m.-4 p.m. Summer term hours are Monday - Thursday, 8 a.m. - 4:30 p.m. The college is closed Fridays during summer term.

The Titan Store and Market is open Monday-Friday, 7:30 a.m.-7:30 p.m. and Saturday, 10 a.m.-4 p.m. Both locations are open extended hours during the first week of fall, winter and spring terms.

The Titan Store at main campus also is open extended hours during Book Buyback.
front table. This is a great place to study independently with easy access to tutors in the following subjects:

- Academic Learning Skills
- Computer Skills (CS 120 and CIS 101, Tutor Central, Room 205)
- Math 10
- Psychology
- Speech, Voice and Articulation
- Writing Center (help with papers from any class)
- Quiet study room (Tutor Central, Room 206)
- Group study rooms (Tutor Central, Rooms 209, 214)

**Business Resource Center**, Building 19, Room 249, 541.463.5799 (Dee Paisted)

The Business Resource Center provides assistance in Accounting and Business courses. Hours are posted on the door.

**CIT Computer Lab**, Building 19, Room 135A, 541.463.5823 (Pam Diodon)

The Computer Information Technology Department has tutoring available for all students enrolled in classes that use the lab. Tutors are advanced majors in the field of computing.

**Math Resource Rooms**, MTH 10 - MTH 97, Building 16, Room 169, 541.463.5399; MTH 105 and up, Building 16, Room 177 (Kristina Holton)

Peer and professional tutors are available. lanecc.edu/math/math-resource-center

**Music Lab**, Building 6, Room 125, 541.463.5649 (Alberto Redondo)

Assistance is available for music theory, fundamentals, literature, history, and electronic music. lanecc.edu/perarts/music/multa-resource-center

**Science Resource Center**, Building 16, Room 193, 541.463.5041 (Star Glass)

Drop-in tutoring, microscopes, models, textbooks, and a computer tutorial for anatomy and physiology are available. lanecc.edu/science/src/

**Adult Basic and Secondary Education** The ABSE Volunteer Tutor program provides individual and small group tutoring for adult students in Basic Skills, GED, and English as a Second Language. The program has been in existence since the mid 1980’s and is located at the Lane Community College Downtown Campus. Volunteers are trained in a free 12 hour workshop and may tutor students at any of our campus locations and outreach sites. Tutors can work one-on-one, with small groups, and as classroom assistants in the areas of reading, writing, grammar, conversation, math computers, American culture, and citizenship. To become a tutor, please contact Amy Gaudia at 541.463.5919. Basic information can be found lanecc.edu/volunteer/tutor/. If you need a tutor, please ask your instructor to help you submit the Tutor Request form.

**Veterans Services**

Building 19, Room 233

**VA Educational Benefits**

Building 19, Room 233A, 541-463-5663, lanecc.edu/va

Programs at Lane Community College are approved by the Oregon Department of Education State Approving Agency as a qualified training institution for students eligible for Veterans’ Administration education benefits. All applications for federal VA educational benefits and enrollment certifications are processed through the VA Regional Office in Muskogee, OK; 1-888-442-4551, 1, 0 or gibill.va.gov

**Eligibility Rules** to determine eligibility for VA Educational Benefits are very complex, and you may have choices to make to determine under which benefit chapter you wish to receive benefits. All who qualify for benefits need to have submitted an application to the VA through the VONAPP (VA On-line Application) process. For more information, contact the VA Educational Benefits Office at 541.463.5663.

**Credit Load/Payment** For payment purposes, during a standard term, 12 credits is considered full-time. A credit load less than 12 credits will be pro-rated at the rate determined by the VA Benefit Chapter under which you are eligible to receive benefits. Even though you may qualify for more than one VA Educational Benefit Chapter, you only may be certified to collect benefits under one VA Benefit Chapter.

**Program of Study** Students using VA educational benefits must be enrolled in an approved degree or certificate program and only courses applicable toward the degree or certificate and their prerequisites can be certified for VA payment.

**Academic Standards** Students using VA educational benefits will be required to follow all Lane’s GPA requirements in accordance with the Academic Standards outlined in this catalog. Each student applying for VA educational benefits will receive a copy of the Standards of Academic Progress for Using VA Benefits at the time of initial certification. These standards apply to all eligible persons using educational benefits administered by the VA.

**Unsatisfactory Progress** The Veterans’ Administration will be notified if a student fails to meet the minimum standards of academic progress for three consecutive terms, or receives all “F,” “NC,” or “NP” grades in any one term, in accordance with Lane’s procedures for academic standards. In order to have VA educational benefits reinstated after unsatisfactory progress, a student must satisfactorily complete a subsequent term. The student will be reimbursed retroactively by the VA after completion of a successful term.

**Schedule Changes, Drops and Adds**

**Within Drop Period** If courses are dropped any time during the first four weeks of the term, the student is paid at the previous rate up to the date the course is dropped.

**After Drop Period** The VA allows a student to withdraw up to six credits one time only after the fourth week of the term and assumes that there are mitigating circumstances; hence, benefits will be paid at the previous rate until the date the course(s) is dropped. Outside of this one-time, six credit exclusion to the “mitigating circumstances” rule, unless mitigating circumstances are submitted and accepted by the VA, any reduction in credit load after the fourth week of the term will result in an overpayment retroactive back to the first day of the term. If there are “mitigating circumstances” involved in the reduction of credits, documentation and a statement by the student must be submitted to the Veterans Office to be forwarded to the VA for determining any overpayment.

**Prior Credits (Transcripts)** Students applying for Veterans’
benefits at Lane who have received college credits prior to entry at Lane either using VA educational benefits or not must provide transcripts to Lane. Unless all transcripts are submitted to Lane during the student’s first three terms of enrollment, subsequent enrollment periods cannot be certified.

**Supplemental Information**

- Students may not repeat any classes previously passed.
- Students will be paid for only those specific courses required in their declared major and any prerequisites.
- If a passing grade was not received in a program’s required course, excluding electives, it can be repeated once again for VA payment.
- In order for a student to take prerequisites for major requirements for VA payment in math and writing, testing results from Testing Services must indicate they are necessary.

**Lane’s Robert D. Maxwell Student Veterans Center**

Building 19, Room 233B

Lane’s Maxwell Student Veterans Center includes a computer support/study area and lounge. This room can be used for studying, sharing resources, holding meetings and making connections with fellow student veterans. Lane’s Student Veterans Club meets twice a month in the center as well.

**Lane’s Integration of Vets in Education (LIVE)**

Building 19, Room 233A, 541.463.5497

The LIVE program is designed to engage student veterans more fully in their learning experience while assisting them with their transition to college. LIVE works in collaboration with others on and off campus to provide student veterans with support services, such as: academic and career advising, peer-to-peer mentoring and access to community resource people for VA-related support. In addition, LIVE offers three Career and Guidance courses (CG 151, 152, 153) that focus on student veteran issues. Off-campus veteran service providers are also welcome to arrange to meet with student veterans and join in on events at Lane.

**Women’s Program**

Building 1, Room 202, 541.463.3535, lanecc.edu/wup

The Women’s Program provides integrated, comprehensive services and programs for women and a variety of gender equity activities and projects. The program ensures that women students have access to programs and services tailored to their needs and that the campus climate is sensitive to gender issues. Major program components include the Women’s Center, Women in Transition, Career Technical Education advising, and Transiciones.

**Mission Statement**

The mission of the Women’s Program is to provide an educational environment where women are empowered to improve their lives.

**Purpose**

The Women’s Program:

- focuses on women’s strengths and capacities.
- offers opportunities to women of diverse backgrounds to create community and pursue education and life goals.
- promotes the college’s ability to build and sustain a welcoming and supportive learning environment for women and create gender equity throughout the college community.
- offers programs, advocacy, information, classes, advising, support services, referrals, and maintains and strengthens relationships with the community.

**Women’s Center**

The Women’s Center acts as a supportive entry point to the college as well as providing services to assist women to stay in school. The center provides information, resource and referral, crisis intervention, advocacy, advising, and individual support. The center maintains bulletin boards on upcoming events and groups, has computer stations for students, has a library focused on women’s and gender issues, and a lounge area with coffee and tea. Both drop-in services and individual appointments are available.

**Women in Transition**

Women in Transition empowers women in transition to become economically self-sufficient and improve their lives through access to education. The program forms a learning community that includes:

- one-term, seven-credit core classes focusing on life/career planning, decision making/goal setting, self-exploration, and esteem-building
- optional classes in effective learning, math, writing, college success, physical education, and computer skills
- limited assistance with tuition and books
- individual and small group advising
- follow-up services
- evening and online Transitions classes offered some terms
- a follow-up Life Transitions 2 class
- a follow-up Career and Life Planning 2 class

**Transiciones**

Transiciones is a life and career-planning program for Spanish speaking women who wish to explore their self-esteem, educational options, financial assistance for school, and community resources. The program offers career and life courses, academic advising, workshops, and computer courses in Spanish. For more information, please call 541.463.3253.

Transiciones es un programa de planeación de vida y carrera para mujeres de habla Hispaña que desean explorar su autoestima, opciones de educación, ayuda financiera para los estudios, y recursos comunitarios. El programa ofrece cursos en planificación de vida, carrera y computación, consejería académica, y talleres. Para más información llame al 541.463.3253 y déje su mensaje.

**Career Technical Education Advising**

The Career Technical Education advisor assists Women in Transition and Transiciones students in exploring the CTE programs offered at Lane. The advisor provides information, advising, group activities, workshops and other experiences that will assist students as they learn about one-and two-year training programs and other avenues to high-wage, high-demand employment.

Other activities of the Women’s Program include working with departments to develop classes and services which meet women’s needs, organizing workshops and events, providing leadership on gender equity issues and assisting with sexual harassment and gender based complaints.
Degree and Certificate Overview

Lane operates on the quarter system. The catalog is published and dated with each academic year, which begins summer term and ends with the following spring term. To earn an associate degree or a Certificate, students may meet the requirements in the catalog that is current when they earn their first credit(s) at Lane as long as they continue to enroll in the same program of study. Students who change programs of study, or who do not enroll for four terms or more, must re-apply to Lane and meet the requirements of the current catalog year. A student who enrolled at Lane prior to June 30, 2013, may apply for an exception if the program of study will be completed by June 20, 2014.

An edition of the catalog is valid for five academic years for Associate Degree and Two-year Certificate programs, and three years for One-year Certificate programs. However, some program coordinators may impose shorter time limits on accepting credits for degree or certificate requirements. Occasionally, the college may change courses and course numbers within a program. Students should work closely with counselors, advisors, and program coordinators in their major department to meet appropriate and current degree and certificate requirements.

While every effort is made to ensure the accuracy of the information in this catalog, Lane has the right to make changes at any time without prior notice. This catalog is not a contract between Lane and current or prospective students.

**Degrees** Lane confers five Associate degrees for satisfactory completion of prescribed credit programs:
- Associate of Arts Oregon Transfer (AAOT)
- Associate of Science Oregon Transfer - Business (ASOT-Business)
- Associate of General Studies (AGS)
- Associate of Science (AS)
- Associate of Applied Science (AAS)

**Certificates** Lane confers three kinds of certificates for satisfactory completion of prescribed credit programs:
- One-year Certificate of Completion
- Two-year Certificate of Completion
- Career Pathways Certificate of Completion

Each student should consult with a counselor or academic advisor to determine an appropriate degree or certificate program.

**Waiver of Program Requirements** Lane does not authorize individual departments to waive degree requirements of Foundational Skills and Discipline Studies requirements, or certificate requirements of communication, computation, and human relations. The Academic Requirements Review Committee will consider petitions to substitute a college General Education requirement. Petitions are available on the web at lanecc.edu/esfs/enrollment-services-forms.

**Earning a Second Degree** A student working toward a second degree must complete an additional 24 credit hours of course work. These additional hours must be completed at Lane and are in addition to the credits earned for a first degree. Students completing two Associates degrees at Lane must complete a minimum of 114 credits. No additional credits are required for related certificates.

**Recognition awards** may be granted, depending upon the nature of the programs and the decision of the administration and faculty. In some cases, for example, a student can earn an award from an instructional department for completion of a sequence of courses. However, a recognition award is different from a degree or certificate in a vocational major issued by the Lane Board of Education and approved by the Oregon Department of Education.

**To Apply for a Degree or Certificate** Students apply for their degrees or certificates the term they intend to complete. Application forms are submitted online at lanecc.edu/esfs/application-degree or through myLane. There is a $20 fee for the Oregon Transfer Module notation on a transcript. Review for degree/certificate completion takes approximately 20 business days following the end of each term.

**Graduation Ceremony** At the end of spring term Lane hosts one graduation ceremony. Detailed information about the commencement ceremony is available from the office of Student Life and Leadership Development, lanecc.edu/stuact. All students are eligible to participate in commencement. Applicants must apply online at lanecc.edu/esfs/application-degree or through myLane by April 30 to ensure being listed in the commencement booklet.

**Transfer Guidelines for Degrees and Certificates**

The following policies apply to transfer course work.

Lane uses course work from U.S. colleges and universities that are regionally accredited by:
- Middle States Association of Colleges and Schools, Middle States Commission on Higher Education
- New England Association of Schools and Colleges Commission on Institutions of Higher Education
- New England Association of Schools and Colleges Commission on Technical and Career Institutions
- North Central Association of Colleges and Schools the Higher Learning Commission
- Northwest Commission on Colleges and Universities
- Southern Association of Colleges and Schools Commission on Colleges
- Western Association of Schools and Colleges, Accrediting Commission for Community and Junior Colleges
- Western Association of Schools and Colleges, Accrediting Commission for Senior Colleges and Universities

**Transfer Credit Process** Students transferring to Lane must complete the Request for Transcript Evaluation form at lanecc.edu/esfs/general-information-transferring-credits. Current Lane Community College students enrolled in six credits or more may have transcripts reviewed. Articulation of credits may only be started when Lane receives your official transcripts(s). Articulations are completed on a first-come, first-served basis. Turn-around time is dependent upon the volume of requests and other factors, such as end of term graduation requests. All documents submitted to Lane become the property of Lane and are subject to federal law, as well as the Family Education Rights and Privacy Act. Courses may transfer even if Lane does not offer an identical course. Not all transfer course work is eligible to meet defined degree or certificate requirements.
U.S. Transfer Credits
- Coursework must be completed at a regionally accredited institution.
- Grades of ‘Pass’ are only transferable when the issuing institution defines the grade as C (including C-) or better.
- Coursework at 300 levels or above is reviewed on a case-by-case basis and may require instructional department’s review.
- The college or university must have been accredited or be a candidate for accreditation when the coursework was taken.

International Transfer Credits
- Coursework listed on non-U.S. transcripts may only be evaluated when accompanied by an evaluation from an approved evaluation service. Students may select an agency of their choice from the NACES website, naces.org
- A course-by-course evaluation from the evaluation service is required.

Non-Traditional Transfer Credits
- Credit-by-Assessment and Credit-by-Exam may be granted for some courses. Students can use these methods to earn credits when institutions are not regionally accredited for a maximum of 25 percent of the degree or certificate. More information is available at lanec.edu.
- Lane will evaluate any of the following learning experiences for credit depending on test and score: Advanced Placement (AP), College Level Entrance Examination Program (CLEP), International Baccalaureate (IB), DANTES (DSST), Military Service Credit, (AARTS, CCAF, CGI, and SMART) based on American Council on Education (ACE) recommendation.
- A military Veteran will be granted three credits of PE upon the submission of a DD214.

Student Outcomes Assessment
For the purpose of assuring a high-quality learning environment, Lane Community College conducts outcomes assessments to measure student learning. Students may be asked to participate in satisfaction surveys, compile portfolios of academic work, take achievement or licensure exams, or demonstrate skills in other ways. The purpose in all these activities is to monitor the quality of learning at Lane and provide evidence to evaluate and improve programs. Participants can be assured that all assessment results will be treated with strictest professional confidentiality. Results appearing in Lane assessment reports and other public documents are presented anonymously, and no student is individually identified. Students are strongly encouraged to participate to the best of their abilities in these assessment efforts.

Credit Student Outcomes
The following summary of first-time degree-seeking students entering Lane Community College in fall 2007 is provided in accordance with the federal Student-Right-to-Know act. More information about students and student outcomes at Lane is available at lanec.edu/research/institutional-research or from Institutional Research, Assessment and Planning, 541.463.5576.

From a 2007 cohort of 700 full-time, first-time, degree/ certificate-seeking students, 12% completed a degree by spring 2010 and 23% transferred to another higher education institution.

In 2011, Lane surveyed 2009-10 graduates and students who completed a majority of degree requirements before leaving Lane. According to the 567 survey respondents:
- 97 percent achieved their goals at Lane.
- 72 percent of students from career technical programs were employed in jobs related to their field of study after leaving Lane.
- 91 percent of these career technical students reported Lane’s courses were “Very Relevant” or Relevant” to their jobs.
- 75 percent of students from transfer programs had continued their education after leaving Lane.
- 70 percent of these transfer students reported Lane prepared them “Well” or “Very Well” for classes at their new institution.

Oregon Outcomes for AAOT, ASOT Business, OTM
Students earning the AAOT, ASOT Business, or the OTM will complete coursework with the following General Education Outcomes:

Writing Outcomes
- Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
- Locate, evaluate, and ethically utilize information to communicate effectively.
- Demonstrate appropriate reasoning in response to complex issues.

Information Literacy Outcomes
- Formulate a problem statement.
- Determine the nature and extent of the information needed to address the problem.
- Access relevant information effectively and efficiently.
- Evaluate information and its source critically.
- Understand many of the economic, legal and social issues surrounding the use of information.

Mathematics Outcomes
- Use appropriate mathematics to solve problems.
- Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

Speech/Oral Communication Outcomes
- Engage in ethical communication processes that accomplish goals.
- Respond to the needs of diverse audiences and contexts.
- Build and manage relationships.

Arts and Letters Outcomes
- Interpret and engage in the Arts and Letters, making use of the creative process to enrich the quality of life.
- Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.

“Arts and Letters” refers to works of art, whether written, crafted, designed, or performed, and documents of historical or cultural significance.

Social Science Outcomes
- Apply analytical skills to social phenomena in order to understand human behavior.
- Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.
Science or Computer Science Outcomes
- Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models and solutions and generate further questions.
- Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner.
- Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Cultural Literacy Outcomes
- Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Human Relations Outcomes for AAS and Certificates
Associates of Applied Science degrees and 1-year and 2-year certificates require students to successfully complete a course qualifying for human relations requirements. Courses on the list on page 38-39 require students to meet at least three of the following eight outcomes:

1. Describe and use appropriate communication skills including non-verbal communication and active listening, barriers to communication and how to overcome them, assertive behavior and how it differs from passive and aggressive behavior.
2. Describe the characteristics of an effective work team, the typical stages of team development, and how to be a capable team member.
3. Understand the issues involved in working with people from different cultural backgrounds and how to work effectively in a diverse workplace.
4. Describe and demonstrate the rules of “principled negotiation” and conflict resolution.
5. Describe and demonstrate customer satisfaction skills for “internal” and “external” customers.
6. Identify character traits associated with being an ethical person and use a systematic method for making ethical decisions and behaving ethically in the workplace, i.e., what sexual harassment is, how to prevent it, and how to deal with it if it occurs.
7. Describe and give examples of how to effectively manage workplace stress and anger.
8. Identify their individual work style and personality (i.e., where they like to focus their attention, the way they like to take in information and the way they like to make decisions), and the strengths and weaknesses of that style.

Associate of Arts Oregon Transfer Degree

The Associate of Arts Oregon Transfer degree is designed for students who want to complete the first two years of a college education, with flexibility to transfer to any institution within the Oregon University System (OUS). The AAOT is a block-transfer degree, which means a student with an AAOT is guaranteed to have met lower-division (100- and 200-level) general education requirements at any OUS institution. AAOT degree recipients are considered juniors for purposes of registration at OUS institutions.

A student selecting this transfer option still must meet the receiving university's admission requirements, including course standing, grade point average and foreign language. The AAOT does not guarantee admission to an OUS institution, or admission to a competitive major, or junior standing in a major. Some transfer institutions also require additional upper-division general education courses.

Each student is strongly encouraged to work with an advisor or counselor to match career goals with an appropriate program, and to select appropriate courses for a major at an intended transfer institution.

Guidelines
Complete a total of 90 credits with a minimum of 24 credits earned at Lane to be awarded the AAOT.

All courses should be aligned with the student's intended program of study and the degree requirements of the intended transfer institution. A student is encouraged to work with an advisor in the selection of courses.

Foundational Skills and Discipline Studies courses must be a minimum of 3 credits, except for Health/Wellness/Fitness courses, which may be any number of credits.

All Elective courses may be any number of credits.

All courses must be passed with a grade of “C-,” “P” or better.

Cumulative GPA must be at least 2.0 at the time the Associate of Arts Oregon Transfer is awarded.

I. Foundational Skills

Writing
8 credits Students taking writing classes of 4 credits each must take WR 121 and either WR 122 or 227. Students taking writing classes of 3 credits each must take WR 121, 122, and either WR 123 or 227. Information Literacy will be included in the Writing Requirement.

Oral Communication
One course in the fundamentals of speech or communication from the list on page 38.

Mathematics
One course in college-level mathematics, for which Intermediate Algebra is a prerequisite.

Health/Wellness/Fitness
One or more courses totaling at least three credits from the list on page 38-39.

II. Discipline Studies
In addition to courses used for Foundational Skills in section I, students must select additional courses in the areas identified below.

Cultural Literacy
Courses that satisfy the Cultural Literacy requirement are marked with an (*) in the list of approved courses on the following pages.

Arts and Letters
Three courses chosen from two or more disciplines from the list on page 36-37.

Social Science
Four courses chosen from two or more disciplines from the list on pages 37-38.

Science/Math/Computer Science
Four courses from at least two disciplines including at least three laboratory courses in biological and/or physical science from the lists on pages 38.
Electives
Any college-level courses that bring total credits to 90 quarter hours including up to 12 credits of Career Technical Education. Career Technical course prefixes are listed on page 45.

- Policies on accepting career technical credits vary at the four-year colleges in Oregon. Consult an academic adviser about taking career technical courses as electives for transfer to a four-year institution.
- Up to 18 credits of Cooperative Education may be included as electives. See lists on page 205-206.
- Up to 12 credits of Individual Music Lessons (MUP) may be included as electives.
- Up to 12 credits of Physical Education activity may be included within the entire degree (Electives and Health/Wellness Fitness).
- WR 115 may be included in the AAOT degree as an elective providing that the WR 115 course was completed summer 1999 or later.

Notes and Clarifications
1. Choose courses numbered 100 or higher. Although they are important in terms of preparation, courses that are developmental in nature are designed to prepare students for college-level work and are not counted in the 90 quarter hours required for the AAOT. Course numbers 001-099 identify these courses (e.g., RD 090 or WR 080). Additionally, the following courses are considered developmental: ENG 110, 116, 117; RD 115; WR 110, 115 (taken before summer 1999) or 120.

2. Foundational Skills are open to demonstration of proficiency. For information of waiver testing or credit for prior learning contact a counselor or advisor. Waiver testing is not the same as placement testing.

3. Second year foreign language courses, but not first year, may be included among courses that count toward the Arts and Letters requirement.

4. For transfer students graduating from high school in 1997 and thereafter, the Oregon University System has a second language admissions requirement:
   - two terms of a college-level second language with an average grade of C- or above, OR
   - two years of the same high school-level second language with an average grade of C- or above, OR
   - satisfactory performance on an approved second language assessment of proficiency.
   - demonstrated proficiency in American Sign Language meets this second language admission requirement.

5. Credit-by-Exam and Credit-by-Assessment may comprise up to 25% of total degree credits.

6. Some courses may be repeatable. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements, unless specifically excluded by your program. Repeating courses may not help you progress toward program completion. Read the course description to understand how many times the course may be repeated. Most Independent Study courses and all PE activity courses may be repeated. Read your program of study to understand if and how a repeat will be applied to your program.

7. Lower-division college level courses (100 and 200-level) taken at Lane may not meet the requirements of an upper-division course with a similar title and content offered by an Oregon University System institution. In such cases, the courses in question will normally transfer as electives.

8. Students may select up to 16 credits P/NP option. This limit does not include courses only offered P/NP.

Approved courses for Oregon Transfer programs
Only the following courses meet the Oregon Transfer Module, Associate of Arts Oregon Transfer degree, and Associate of Science Oregon Transfer: Business Discipline Studies degree requirements.

Art and Letters
*Note: Courses marked with (*) also will satisfy the Cultural Literacy requirement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AIL 201,202,203</td>
<td>Chinuk WaWa</td>
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<tr>
<td>ART 111</td>
<td>Introduction to Visual Arts</td>
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<tr>
<td>ART 113,213</td>
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<td>ART 131</td>
<td>Introduction to Drawing: 3D</td>
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<td>ART 134</td>
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<td>ART 200</td>
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<td>ART 202</td>
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<td>ART 203</td>
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<tr>
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<td>ART 207,208,209*</td>
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<tr>
<td>ART 211</td>
<td>Survey of Visual Arts: Early Modern Art</td>
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<td>ART 212</td>
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<td>ENG 217</td>
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<td>ENG 218</td>
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<tr>
<td>ENG 232*</td>
<td>Native American Literature</td>
</tr>
<tr>
<td>ENG 240</td>
<td>Nature Literature</td>
</tr>
<tr>
<td>ENG 243*</td>
<td>Native American Autobiography</td>
</tr>
<tr>
<td>ENG 244*</td>
<td>Asian American Literature</td>
</tr>
<tr>
<td>ENG 250*</td>
<td>Introduction to Folklore and Mythology</td>
</tr>
<tr>
<td>ENG 253,254</td>
<td>Survey of American Literature</td>
</tr>
</tbody>
</table>
| ENG 257* | The American Working Class in Fiction and
Non-Fiction

ENG 259* African American Poetry, Plays, and Film
ENG 260* Introduction to Women Writers
ENG 261 Science Fiction
ENG 270 Bob Dylan: American Poet
ENG 271,272,273 Film Genre: Varied Topics
FA 255 Understanding Movies: American Cinema
FA 263 Film in the Fifties
FA 264* Women Make Movies
FA 265* African American Film Images
FR 201,202,203 Second Year French
HUM 100 Humanities Through the Arts
J 134 Photojournalism
J 216 Newswriting 1
MUS 101 Music Fundamentals
MUS 102 Jazz Fundamentals
MUS 103* Songwriting Techniques and Analysis 1
MUS 108* Music in World Cultures
MUS 111,112,113 Music Theory 1
MUS 118,119 Music Technology MIDI/Audio 1,2
MUS 201,202,203 Introduction to Music and Its Literature
MUS 205* Introduction to Jazz History
MUS 211,212,213 Music Theory 2
MUS 261,262,263 Music History
MUS 264*,265*,266* History of Rock Music 1,2,3
PHL 201 Ethics
PHL 202 Theories of Knowledge
PHL 203 Theories of Reality
PHL 205* Contemporary Moral Issues
PHL 221 Critical Thinking
REL 201* Religions of India (Hinduism, Buddhism)
REL 202* Religions of China and Japan (Taoism, Confucianism, Buddhism, and Shinto)
REL 203* Religions of the Middle East (Judaism, Christianity, and Islam)
REL 230 Christian Beginnings
REL 231 Buddhist Meditation Traditions
REL 243 Nature, Religion and Ecology
SLD 244* Native American Storytelling
SP 100 Basic Communication
SP 105 Listening and Critical Thinking
SP 111 Fundamentals of Public Speaking
SP 112 Persuasive Speech
SP 115* Introduction to Intercultural Communication
SP 130 Business and Professional Speech
SP 218 Interpersonal Communication
SP 219 Small Group Discussion
SP 220* Communication, Gender and Culture
SP 262 Voice and Articulation
SPAN 201,202,203 Spanish, Second Year
TA 140 Acting Shakespeare
TA 141,142,143 Acting 1,2,3
TA 144 Improvisational Theatre 1
TA 241,242,243 Intermediate Acting
WR 241 Introduction to Imaginative Writing: Fiction
WR 242 Introduction to Imaginative Writing: Poetry
WR 245 The Poet in the City
WR 240 Creative Nonfiction

Social Science

*Note: Courses marked with (*) also will satisfy the Cultural Literacy requirement.

ANTH 101 Physical Anthropology
ANTH 102* World Archaeology
ANTH 103* Cultural Anthropology
ANTH 227*,228* Prehistory of Mexico; Cultures of Mexico
ANTH 229* Chicano Culture
ANTH 231*,232*,233* American Indian Studies
CJA 214 Introduction to Forensic Science
ECON 200 Principles of Economics: Introduction to Economics
ECON 201 Principles of Economics: Introduction to Micro Economics
ECON 202 Principles of Economics: Introduction Macro Economics
ECON 204 Introduction to International Economics
ECON 250*/ES 250* Class, Race, and Gender in the U.S. Economy
ECON 260 Introduction to Environmental and Natural Resource Economics
ES 101* Historical Racial and Ethnic Issues
ES 102* Contemporary Racial and Ethnic Issues
ES 211* Chicano/Latino Experience: Historical and Ideological Perspectives
ES 212* Chicano/Latino Experience: Political and Ideological Perspectives
ES 213* Chicano/Latino Experience: Contemporary Identity and Cultural Issues
ES 221* African American Experience: Down From the Pyramids, Up From Slavery 10,000 BCE-1877
ES 222* African American Experience: Aspiration 1877-1945
ES 223* African American Experience: A Luta Continua: The Struggle Continues 1945 to Present
ES 231* Asian American Experience: First and Second Generation
ES 232* Asian American Experience: Social Movements of the 20th Century
ES 233* Asian American Experience: Contemporary Issues in Asian America
ES 241* Native American Experience: Consequences of Native American and European Contact
ES 242* Native American Experience: Nineteenth Century Federal-Indian Relations
ES 243* Native American Experience: Contemporary Native American Issues
ES 250*/ECON 250* Class, Race, and Gender in the U.S. Economy
GEOG 141* Natural Environment
GEOG 142* Introduction to Human Geography
GEOG 201* World Regional Geography
GEOG 223 Geography of the Muslim World
GIS 151 GIS/GEOG 151 Digital Earth
GIS 245 Maps and Spatial Information
GIS 246 Introduction to GIS
GIS 249 Raster Analysis and Remote Sensing
GIS 260 Applications in GIS
HST 101,102,103 History of Western Civilization
HST 104*,105*,106* World History
HST 195* History of the Vietnam War
HST 201,202,203 History of the United States
HST 207 History of the American West
HST 208 U.S. History Since 1945
HST 209 American History: The Civil War
HST 286* U.S. Women’s History
HST 268* U.S. Women’s History
HUM 100 Humanities through the Arts
PHL 201 Ethics
PHL 202 Theories of Knowledge
PHL 203 Theories of Reality
PHL 205* Contemporary Moral Issues
PHL 221 Critical Thinking
PS 104 Problems in U.S. Politics/Film 1
PS 105 Problems in U.S. Politics/Film 2
PS 201,202 U.S. Government and Politics
PS 203 State and Local Government and Politics
PS 204 Introduction to Comparative Politics
PS 205* International Relations
PS 208 Introduction to Political Theory
PS 211 Peace and Conflict Studies: Global
PS 212 Peace and Conflict Studies: National
PS 213 Peace and Conflict Studies: Local
PS 225 Political Ideology
PS 275 Legal Processes Through Civil Rights and Liberties
PS 297 Environmental Politics
PSY 201,202,203 General Psychology
PSY 214 Introduction to Personality
PSY 215 Lifespan Developmental Psychology
PSY 216 Social Psychology
PSY 218* Multicultural Psychology
PSY 235,236 Human Development 1,2
PSY 239 Introduction to Abnormal Psychology
REL 201* Religions of India (Hinduism, Buddhism)
REL 202* Religions of China and Japan (Taoism, Confucianism, Buddhism, and Shinto)
REL 203* Religions of the Middle East (Judaism, Christianity, and Islam)
REL 230 Christian Beginnings
REL 231 Buddhist Meditation Traditions
SLE 103* Post-Racial America: Challenges and Opportunities
SLE 121* African American Leadership: History, Philosophy and Practice
SOC 108* Selected Topics: Women’s Studies
SOC 108A Selected Topics: Women’s Studies: Women’s Bodies, Women’s Selves
SOC 204 Introduction to Sociology
SOC 205 Social Stratification and Social Systems
SOC 206 Institutions and Social Change
SOC 207* Women and Work
SOC 208* Sport and Society
SOC 210 Marriage, Family and Intimate Relations
SOC 211 Social Deviance
SOC 213* Race and Ethnicity
SOC 215* Social Class
SOC 216* Global Social Movements
SOC 218* Sociology of Gender
SOC 225 Social Problems
WS 101* Introduction to Women’s Studies

Science, Mathematics, and Computer Science
Note: Courses marked with (*) also will satisfy the Cultural Literacy requirement.

Biological Sciences with laboratories
Note: Only one of the BI 101’s, and one of the BI 102’s, and one of the BI 103’s will meet the Science/Math/Computer Science requirements for any Lane degree. Any additional BI 101, 102, or 103 course credits will count as electives for a Lane degree. (See the course description section of this catalog for more information.)

BI 101,102,103 General Biology (See note below)
BI 102J* Ethnobotany and BI 103G* General Biology: Ecology also will satisfy the Cultural Literacy requirement.
BI 112 Cell Biology for Health Occupations
BI 211 Principles of Biology (formerly BI 201, BOT 201 or Z 201)
BI 212 Principles of Biology (formerly BOT 202 or Z 202)
BI 231,232,233 Human Anatomy and Physiology 1,2,3
BI 234 Introductory Microbiology
BOT 213 Principles of Botany (formerly BOT 203)
Z 213 Principles of Zoology (formerly Z 203)

Physical Sciences with laboratories
ASTR 107 Astronomy
CH 104 Introductory Chemistry 1
CH 221,222,223 General Chemistry 1,2,3
CH 241,242,243 Organic Chemistry
CJA 214 Introduction to Forensic Science
ENVS 181 Terrestrial Environment
ENVS 182 Atmospheric Environment and Population
ENVS 183 Aquatic Environment
ENVS 184 Global Climate Change
G 101 Earth’s Dynamic Interior
G 102 Earth’s Dynamic Surface
G 103 Evolving Earth
G 146 Rocks and Minerals
G 147 National Parks
G 201 Earth Materials and Plate Tectonics
G 202 Earth’s Surface Systems
G 203 Evolution of the Earth
GIS/GEOG 151 Digital Earth
GIS 245 Maps and Spatial Information
GIS 246 Introduction to GIS
GIS 249 Raster Analysis and Remote Sensing
GIS 260 Applications in GIS
GIS 261 General Science (Nature of the Northwest)
GS 104,105,106 Earth Science: Earth Revealed +L
GS 142 Earth Science: Earth Revealed +L
GS 147 Oceanography +L
GS 148 Universe: Infinite Frontier +L
PH 101,102,103 Fundamentals of Physics
PH 201,202,203 General Physics
PH 211,212,213 General Physics with Calculus
WST 230 Watersheds and Hydrology
+L must be taken for four credits to include lab

Other Science/Math/Computer Science Courses (non-laboratory)

ANTH 101 Physical Anthropology
ASTR 121 Astronomy of the Solar System
ASTR 122 Stellar Astronomy
ASTR 123 Cosmology and the Large-Scale Structure of the Universe
CH 112 Chemistry for Health Occupations
CJA 214 Intro to Forensic Science
CS 160 Orientation to Computer Science
CS 161,162 Computer Science 1,2
CS 233 Advanced Programming
CS 260 Data Structures 1
CS 271 Computer Architecture and Assembly Language
EGEO 141 Natural Environment
GS 142 Earth Science: Earth Revealed
GS 147 Oceanography
GS 148 Universe: Infinite Frontier
MTH 105 Introduction to Contemporary Mathematics
MTH 111 College Algebra
MTH 112 Trigonometry
MTH 211,212,213 Discrete Mathematics 1,2,3
MTH 231,232,233 Elementary Calculus 1,2
MTH 241,242 Calculus 1 (Differential Calculus)
MTH 251 Calculus 1 (Differential Calculus)
MTH 252 Calculus 2 (Integral Calculus)
MTH 253 Calculus 3 (Infinite Series and Sequences)
MTH 254 Vector Calculus 1 (Introduction to Vectors and Multi dimensions)
MTH 255 Vector Calculus 2 (Introduction to Vector Analysis)
MTH 256 Applied Differential Equations
MTH 261 Introduction to Linear Algebra
PSY 217 Introduction to Experimental Psychology

Cultural Literacy
Courses approved for the Cultural Literacy requirement are marked with an (*) in the lists of courses on the previous pages. A course taken to meet the Cultural Literacy Requirement will also be used to satisfy Discipline Studies Requirements. The credits for such courses will only be counted once toward the 90 credits required to complete the degree.

Speech/Oral Communication
SP 100 Basic Communication
SP 111 Fundamentals of Public Speaking
SP 112 Persuasive Speech
SP 130 Business and Professional Speech
SP 217 Interpersonal Communication
SP 219 Group Discussion

Health/Wellness/Fitness
EXMS 214+ Physiology of Exercise and Healthy Aging
FN 225+ Nutrition
HE 125 Workplace Health and Safety (summer 1997 or later)
HE 152 Drugs, Society and Behavior
HE 209 Human Sexuality
HE 222 Consumer Health
HE 240 Holistic Heath
Guidelines

1. Complete a total of 90 credits with a minimum of 24 credits earned at Lane to be awarded the ASOT-Business.
2. All courses should be aligned with the student’s program of study and the degree requirements of the intended transfer institution. Transfer students are encouraged to work with an advisor in the selection of courses.
3. All Foundational Requirements and Discipline Studies courses must be a minimum of 3 credits. All Elective courses may be any number of credits.
4. All courses must be passed with a grade of “C-” or better.
5. Cumulative GPA must be at least 2.0 at the time the Associate of Science Oregon Transfer-Business degree is awarded.
6. Foundational Skills and Discipline Studies courses must be a minimum of 3 credits.
7. All Elective courses may be any number of credits.

The Associate of Science Oregon Transfer in Business (ASOT-Business) degree has business-focused lower division general education requirements accepted by any institution in the Oregon University System (OUS), and electives tailored for requirements at each intended transfer institution. Students transferring with this degree will have junior standing for registration purposes.

The ASOT-Business degree does not guarantee admission to an OUS institution, or admission to a competitive business major, or junior standing in a major. Course, class standing, or GPA requirements for specific majors, departments, or schools are not necessarily satisfied by an ASOT-Business degree.

Each student is strongly encouraged to work with an advisor or counselor to select electives that align with requirements at an intended transfer institution. Careful advising especially is needed for this degree program, as requirements at OUS institutions vary, and elective choices differ depending on the intended transfer institution.

Each student must contact the specific OUS business school/program early in the first year of an ASOT-Business degree to be advised about additional requirements and procedures for admission consideration to the OUS institution and the Business school/program.

+Note: Career Technical courses fulfilling Health/Wellness/Fitness requirements will not be counted in the 12-credit limit on CT courses.

**Sustainability-focused courses**
- BI 103M  General Biology: Biodiversity & Sustainability
- HE 255  Global Health and Sustainability
- PS 297  Environmental Politics
- REL 243  Nature, Religion and Ecology

**Associate of Science Oregon Transfer: Business**

The Associate of Science-Oregon Transfer in Business (ASOT-Business) degree has business-focused lower division general education requirements accepted by any institution in the Oregon University System (OUS), and electives tailored for requirements at each intended transfer institution. Students transferring with this degree will have junior standing for registration purposes.

The ASOT-Business degree does not guarantee admission to an OUS institution, or admission to a competitive business major, or junior standing in a major. Course, class standing, or GPA requirements for specific majors, departments, or schools are not necessarily satisfied by an ASOT-Business degree.

Each student is strongly encouraged to work with an advisor or counselor to select electives that align with requirements at an intended transfer institution. Careful advising especially is needed for this degree program, as requirements at OUS institutions vary, and elective choices differ depending on the intended transfer institution.

Each student must contact the specific OUS business school/program early in the first year of an ASOT-Business degree to be advised about additional requirements and procedures for admission consideration to the OUS institution and the Business school/program.

Guidelines

1. Complete a total of 90 credits with a minimum of 24 credits earned at Lane to be awarded the ASOT-Business.
2. All courses should be aligned with the student’s program of study and the degree requirements of the intended transfer institution. Transfer students are encouraged to work with an advisor in the selection of courses.
3. All Foundational Requirements and Discipline Studies courses must be a minimum of 3 credits. All Elective courses may be any number of credits.
4. All courses must be passed with a grade of “C-” or better.
5. Cumulative GPA must be at least 2.0 at the time the Associate of Science Oregon Transfer-Business degree is awarded.
6. Foundational Skills and Discipline Studies courses must be a minimum of 3 credits.
7. All Elective courses may be any number of credits.

**I. Foundational Skills**

**Writing**
- 9 credits of WR121, WR122, and WR123, OR
- 8 credits of WR121 and either WR122 or WR227.

Information Literacy will be included in the writing requirement.

**Oral Communications**

**Mathematics**
- 3 courses MTH 105 and above, one of which must be MTH 243.

**Computer Applications**
- Proficiency in word-processing, spreadsheet, database, and presentation software as demonstrated by successful completion of appropriate courses. Each student must see an advisor or counselor to determine which course(s) will best meet the requirements of an intended transfer institution. CIS 101, CS 120.

**II. Discipline Studies**

In addition to courses used for Foundational Skills in section I, students must select additional courses in the areas identified below.

**Arts and Letters**
- 3 courses from approved list on page 36-37 chosen from at least two disciplines.
Social Sciences
4 courses from approved list, with a minimum of two courses in "principles of economics" (to include microeconomics and macroeconomics) at the 200 level.

Science
4 courses from at least two disciplines including at least three laboratory courses in the biological and/or physical sciences from approved list on pages 38.

Cultural Literacy
One course from any discipline studies courses designated as meeting the statewide criteria for cultural literacy.

Notes:
• Repeatable Discipline Studies courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats meet Electives requirements.
• Courses numbered 199, 280, 298, or 299 count as electives, and do not meet Discipline Studies requirements. Courses numbered 199 and 299 are experimental, and may later be reviewed and approved for Discipline Studies. Consult an advisor or counselor.

III. Business-Specific Requirements
BA 101 Introduction to Business, 4 credits
BA 211 Fundamentals of Financial Accounting and
BA 213 Decision Making with Accounting Information, 8 credits
BA 226 Business Law 1 (or other advisor-approved Business course from the list below), 4 credits

Check with a business advisor if you intend to substitute one of the courses below for BA 226 Business Law. Some OUS institutions require BA 226.

BA 206 Management Fundamentals
BA 223 Marketing
BA 224 Human Resource Management
BA 227 Law of Business Transactions

BA 242 Fundamentals of Investments
BA 249 Retailing
BA 278 Leadership and Team Building
BA 280 Cooperative Education
BA 281 Personal Finance

IV. Electives and University-Specific Prerequisites
Any college-level courses that will bring total credits to 90 quarter hours including up to 12 credits of Career Technical Education. Career Technical subject codes are listed on page 45. Consult Lane's Counseling and Advising department for list of university-specific prerequisites and recommended coursework. Please note: Prerequisites and recommendations of specific institutions may change without notice.

Notes and Clarifications
1. Choose courses numbered 100 or higher. Although they are important in terms of preparation, courses that are developmental in nature are designed to prepare students for college-level work and are not counted in the 90 quarter hours required for the ASOT-Business. Course numbers 001-099 identify these courses (e.g., RD 090 or WR 080). Additionally, the following courses are considered developmental: ENG 110, 116, 117; RD 115; WR 110, 115 (taken before summer 1999) or 120.
2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or advisor. Waiver testing is not the same as placement testing.

3. Second year foreign language courses, but not first year, may be included among courses that count toward the Arts and Letters requirement. American Sign Language (ASL) is considered a foreign language.

4. For transfer students graduating from high school in 1997 and thereafter, the Oregon University System has a second language admissions requirement:
   - two terms of a college-level second language with an average grade of C- or above, OR
   - two years of the same high school-level second language with an average grade of C- or above, OR
   - satisfactory performance on an approved second language assessment of proficiency. Demonstrated proficiency in American Sign Language meets this second language admission requirement.

5. Credit-by-Exam and Credit-by-Assessment may comprise up to 22 credits of degree.

6. Some courses may be repeatable. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements, unless specifically excluded by your program. Repeating courses may not help you progress toward program completion. Read the course description to understand how many times the course may be repeated. Most Independent Study courses and all PE activity courses may be repeated. Read your program of study to understand if and how a repeat will be applied to your program.

7. Lower-division college level courses (100 and 200-level) taken at Lane may not meet the requirements of an upper-division course with a similar title and content offered by an Oregon University System institution. In such cases, the courses in question will normally transfer as electives.

8. Students may select up to 16 credits P/NP option. This limit does not include courses only offered P/NP.
Guidelines

Each student is strongly encouraged to work with an advisor or counselor to match career goals with an appropriate program, and may later be reviewed and approved for Discipline Studies. Consult an advisor or counselor.

III. Electives

Electives may include any college-level course that would bring total credits to 90 quarter hours including up to 12 credits of Career Technical Education. Career Technical subject codes are listed on page 45.

• Policies on accepting career technical credits vary at four-year colleges. Consult an academic advisor about taking career technical courses as electives for transfer to a four-year institution.
• Up to 18 credits of Cooperative Education may be included as electives. See lists on page 205-206.
• Up to 12 credits of Individual Music Lessons (MUP) may be included as electives.
• Up to 12 credits of Physical Education activity may be included within the entire degree (Electives and Health/Wellness Fitness).
• WR 115 may be included in the degree as an elective providing that the WR 115 course was completed summer 1999 or later.

Notes

1. Choose courses numbered 100 or higher. Although they are important in terms of preparation, courses that are developmental in nature are designed to prepare students for college-level work and are not counted in the 90 quarter hours required for the ASOT-Business. Course numbers 001-099 identify these courses (e.g., RD 090 or WR 090). Additionally, the following courses are considered developmental: ENG 110, 116, 117; RD 115; WR 110, 115 (taken before summer 1999) or 120.
2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or advisor. Waiver testing is not the same as placement testing.
3. Students may select up to 16 credits P/NP option. This limit does not include courses only offered P/NP.
4. For transfer students graduating from high school in 1997 and thereafter, the Oregon University System has a second language admissions requirement: - two terms of a college-level second language with an average grade of C- or above, OR
   - two years of the same high school-level second language with an average grade of C- or above, OR
   - satisfactory performance on an approved second language assessment of proficiency. Demonstrated proficiency in American Sign Language meets this second language admission requirement.
5. Credit-by-Exam and Credit-by-Assessment may comprise up to 22 credits of the degree.
6. Some courses may be repeatable. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements, unless specifically excluded by your program. Repeating courses may not help you progress toward program completion. Read the course description to understand how many times the course may be repeated. Most Independent Study courses and all PE activity courses may be repeated. Read your program of study to understand if and how a repeat will be applied to your program.
7. Lower-division college level courses (100 and 200-level) taken at Lane may not meet the requirements of an upper-division course with a similar title and content offered by an Oregon University System institution. In such cases, the courses in question will normally transfer as electives.

Additional Information: See “Degrees and Certificates,” page 33.
II. Discipline Studies
In addition to courses used in section I, students must select additional courses in the areas identified below.

Arts/Letters
12 credits choose from the following: Art, Dance, Effective Learning, Film Arts, Foreign Language, Humanities, Journalism, Literature, Music, Philosophy, Religion, Speech, Theater Arts, Writing.

Social Science
12 credits choose from the following: Anthropology, Economics, Ethnic Studies, Geographic Information Science (GIS), Geography, History, Human Relations (CG and HS prefixed courses), Humanities (HUM 100) Through the Arts, Philosophy, Political Science, Psychology, Religion, Sociology, Women's Studies.

Science/Math/Computer Science
14 credits choose from the following: Biology (see Note on page 43 for instruction) Astronomy, Botany, Chemistry, Computer Science (CS prefix courses only, not CIS), Engineering, Geographic Information Science (GIS), Geology (G or ENVIS), Mathematics (MTH 105 and higher), The Natural Environment (GEOG 141), Physical Anthropology (ANTH 101), Physical Science (GS prefix), Physics, Zoology; ANTH 101, CJA 214, DA 110, DRF 205, DRF 207, ET 129, ET 130, ET 131, ET 145, ET 146, ET 151, ET 152, FT 113, GEOG 141, HO 150, HO 152, and PSY 217.

Notes
- Repeatable Discipline Studies courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats meet Elective requirements.
- Courses numbered 199, 280, 298, or 299 count as electives, and do not meet Discipline Studies requirements. Courses numbered 199 and 299 are experimental, and may later be reviewed and approved for Discipline Studies. Consult an advisor or counselor.

III. Electives
Electives may include any college-level course that would bring total credits to 90 quarter hours:
- Policies on accepting career technical credits vary at four-year colleges. Consult an academic adviser about taking career technical courses as electives for transfer to a four-year institution.
- Up to 18 credits of Cooperative Education may be included as electives. See lists on page 205-206.
- Up to 12 credits of Individual Music Lessons (MUP) may be included as electives.
- Up to 12 credits of Physical Education activity may be included within the entire degree (Electives and Health/Wellness Fitness).
- WR 115 may be included in the degree as an elective providing that the WR 115 course was completed summer 1999 or later.

Notes
1. Choose courses numbered 100 or higher. Although they are important in terms of preparation, courses that are developmental in nature are designed to prepare students for college-level work and are not counted in the 90 quarter hours required for the AGS. Course numbers 001-099 identify these courses (e.g., RD 090 or WR 089). Additionally, the following courses are considered developmental: ENG 110, 116, 117; RD 115; WR 110, 115 (taken before summer 1999) or 120.
2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or advisor.
3. Students may select up to 16 credits P/NP. This limit does not include courses only offered P/NP.
4. For transfer students graduating from high school in 1997 and thereafter, the Oregon University System has a second language admissions requirement:
   - two terms of a college-level second language with an average grade of C- or above, OR
   - two years of the same high school-level second language with an average grade of C- or above, OR
   - satisfactory performance on an approved second language assessment of proficiency. Demonstrated proficiency in American Sign Language meets this second language admission requirement.
5. Credit-by-Exam and Credit-by-Assessment may comprise up to 25% of total degree credits.
6. Some courses may be repeatable. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements, unless specifically excluded by your program. Repeating courses may not help you progress toward program completion. Read the course description to understand how many times the course may be repeated. Most Independent Study courses and all PE activity courses may be repeated. Read your program of study to understand if and how a repeat will be applied to your program.
7. Lower-division college level courses (100 and 200-level) taken at Lane may not meet the requirements of an upper-division course with a similar title and content offered by an Oregon University System institution. In such cases, the courses in question will normally transfer as electives.

Additional Information: See "Degrees and Certificates," page 33.
Associate of Applied Science Degree

Associate of Applied Science degrees train graduates for immediate employment and direct entry into the workforce. Many career technical programs require cooperative education or internships and may require licensure exams or certifications. Career Technical courses do not necessarily transfer to other institutions. See subject codes listed on page 45.

Students who wish to pursue an AAS degree must choose a career technical program and follow the requirements listed for that program (see listings on pages 65-157 for specific curriculum).

Each student is strongly encouraged to work with a Lane advisor or counselor to match career goals with an appropriate program. Each AAS degree has specific program requirements. The following information is provided only as an overview of the AAS degree.

Guidelines
1. Total credits for an AAS degree range from 90-108 credits, depending on program requirements. Complete program with a minimum of 24 credits earned at Lane.
2. Foundational Skills and Discipline Studies courses must be a minimum of 3 credits, except for Health/PE courses, which may be any number of credits.
3. Pass all Foundational Skills and Discipline Studies courses with a grade of “C-” or “P” or better, unless your AAS program has different requirements.
4. Pass all required program core courses with a letter grade of “C-” or better.
5. Developmental courses may not be used unless specified in the program.
6. Cumulative GPA must be at least 2.0 when the Associate of Applied Science degree is awarded.

I. Foundational Skills
Students must complete all General Education requirements in this section with a minimum grade of C- or “P” (Pass), unless otherwise noted by the sponsoring department that the course requires a letter grade or a higher grade.

Note: Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or advisor. Waiver testing is not the same as placement testing.

Writing
3 credits (one class). See your program for the specific required class. If none is listed, you must take one course, WR 115 or higher.

Mathematics
One course, minimum 3 credits. See your program for the specific required class. If none is listed, take one course, MTH 025 or higher.

Physical Education or Health
3 credits, one course required from the approved list of PE activity classes from the AAOT, plus two additional credits from PE 181-288. One credit from PE 186W and one credit from a Dance prefix accepted to meet this requirement.

OR
3 credits EXMS 214, FN 225, HE 152, 208, 222, 240, 250, 255, 262 or 275; or HE 125, 252 (summer 1997 or later), Hl 101,

II. Discipline Studies
In addition to courses used for Foundational Skills in section 1, twelve additional credits are required with 3 credits minimum from Arts and Letters; 3 credits minimum from Human Relations, 3 credits minimum from Science/Math/Computer Science; and remaining credits from any of the 4 disciplines.

Arts and Letters
3 credits minimum from one subject prefix as specified by program, or if not specified, chosen from Art, Dance, Effective Learning, English, Film Arts, Foreign Language, Humanities, Journalism, Literature, Music, Philosophy, Religion, Speech, Theater Arts, Writing, AIL 201-203, or ES 244.

Human Relations
One course, 3 credits minimum. See your program for the specific required class. If none is listed, you may choose from the list on page 44-45.

Social Science
See your program for a specific required class. If none is listed, you may take any course from the following: Anthropology, Economics, Ethnic Studies, Geographic Information Science, Geography, History, Philosophy, Humanities (HUM 100) Through the Arts, Political Science, Psychology, Religion, Sociology, or Women’s Studies.

Science/Math/Computer Science
3 credits minimum as specified by program, or if not specified, chosen from Astronomy, Biology, Botany, Chemistry, Computer Science (CS prefix only, not CIS), Engineering, Geographic Information Science, Geology (G or ENVS), Mathematics (must be a higher level course than the minimum required by the program), Physical Science (GS prefix), Physics, Zoology; ANTH 101, CJA 214, DA 110, DRF 205, DRF 207, ET 129, ET 130, ET 131, ET 145, ET 146, ET 151, ET 152, FT 113, GEOG 141, HO 150, HO 152, or PSY 217.

III. Program Core Requirements
Core course work varies from program to program. Not all programs offer a degree. See the individual program descriptions for specific requirements and limitations, pages 65-157.

Additional Information: See “Additional Information” under Certificate, page 46.

Human Relations Courses
Three credits from this list will meet the Human Relations component for AAS degrees and certificates.

ANTH 103  Cultural Anthropology
BA 278  Leadership and Team Dynamics
BT 112  Team Building Skills
CG 100  College Success
CG 140  Career and Life Planning
CG 144  Introduction to Assertive Behavior
CG 145  Coping Skills for Stress and Depression
CG 203  Human Relations at Work
CG 204  Eliminating Self-Defeating Behavior
CG 211,212  Dreikursian Principles of Child Guidance 1,2
CG 213  Improving Parent-Child Relations
CPSY 200  Understanding Addictive Behavior
GEOG 142  Introduction to Human Geography
HO 102  Diversity Issues in Healthcare
PHEL 201  Ethics
PHEL 205  Contemporary Moral Issues
PS 204  Introduction to Comparative Politics
PS 213  Peace and Conflict Studies: Local
PSY 110  Exploring Psychology
PSY 205  Applied Psychology
SP 218  Interpersonal Communication
SP 219  Small Group Discussion
SOC 108, 108A  Selected Topics in Women’s Studies
SOC 204  Introduction to Sociology
SOC 205  Social Stratification and Social Systems
SOC 206  Institutions and Social Change
SOC 207 Women and Work
SOC 210 Marriage, Family and Intimate Relations
SOC 211 Social Deviance
SOC 225 Social Problems
WS 101 Introduction to Women’s Studies

**AAS Programs at Lane**
Curriculum for the following programs may be found on pages 65-157 and are listed in alphabetical order.

- Accounting
- Administrative Office Professional
- Auto Body and Fender Technology - Auto Collision Option
- Auto Body and Fender Technology - Auto Paint Option
- Automotive Technology
- Aviation Maintenance
- Computer Information Systems
- Computer Information Systems - Health Informatics
- Computer Network Operations
- Computer Programming
- Computer Simulation and Gamer Development
- Construction Technology
- Construction Trades - General Apprenticeship
- Culinary Arts and Food Service Management
- Dental Hygiene
- Diesel Technology
- Drafting
- Early Childhood Education
- Electrician Apprenticeship Technologies
- Electronic Technology
- Energy Management Technician
- Energy Management – Building Controls Technician Option
- Energy Management - Renewable Energy Technician Option
- Exercise and Movement Science
- Fabrication/Welding Technology
- Flight Technology
- Geospatial Information Science Technician
- Graphic Design
- Hospitality Management
- Human Services
- Human Services - Criminal Justice
- Industrial Mechanics and Maintenance Technology
- Manufacturing Technology
- Manufacturing Technology - CNC Technician Option
- Multimedia Design
- Nursing
- Paramedicine
- Physical Therapist Assistant
- Respiratory Care
- Retail Management
- Sustainability Coordinator
- Water Conservation Technician
- Watershed Science Technician

**Career Technical Courses**
Students may include up to twelve career technical elective credits in the Associate of Arts Oregon Transfer (AAOT) and Associate of Science degrees from Lane Community College. Policies on acepting career technical credits vary at the four-year colleges in Oregon. Consult an academic adviser about taking career technical courses as electives for transfer to a four-year institution.

Career Technical courses currently offered at Lane are identified by the following subject codes:

- AB Auto Body
- AM Automotive
- APR Apprenticeship
- AS Aerospace Science
- AUD Audio Production
- AV Aviation Maintenance
- BT Business Technology
- CA Culinary Arts
- CSK Career Skills
- CST Construction
- DA Dental Assisting
- DH Dental Hygiene
- DRF Drafting
- DS Diesel
- ECE Early Childhood Education
- EMT Emergency Medical Technology
- ET Electronic Technology
- EXMS Exercise and Movement Science
- FN Food and Nutrition
- FT Flight Technology
- GD Graphic Design
- GWE General Work Experience
- HDFS Human Development and Family Studies
- HI Health Informatics
- HIM Health Information Management
- HIT Health Information Technology
- HO Health Occupations
- HRTM Hotel, Restaurant, Tourism Management
- HS Human Services
- LA Legal Assistant
- LAT Landscape Technology
- MA Medical Assisting
- MDP Multimedia Production
- MFG Manufacturing
- MUL Multimedia
- NRG Energy
- NRS Nursing
- OST Occupational Skills Training
- PN Practical Nursing
- PTA Physical Therapist Assistant
- RT Respiratory Therapy
- RTEC Regional Technology Education Consortium
- SUST Sustainability
- VP Video Production
- WATR Water Conservation
- WLD Welding

Career Technical subject codes previously used by Lane include: AVN, APPR, BVDP, CSP, EET, ELT, IT, LE, LGL, MMT, MO, MS, NUR, OA, PA, PGS, PST, PTV, RE, RH, RVS, SS.
**Certificate (One-Year and Two-Year)**

Students are encouraged to contact an advisor or counselor to determine which certificate is appropriate to meet their goals. Lane awards certificates to students who meet the listed certificate requirements for Lane's career technical programs. Refer to the individual programs for more specific requirements.

**I. Foundational Skills**

Students must complete all requirements in this section with a minimum grade of C- or "P" (Pass), unless otherwise noted by the sponsoring department that the course requires a letter grade and/or a higher grade.

*Note: Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or advisor.*

**Writing**

One course, minimum 3 credits as specified by the program, or if not specified, WR 115W

**Mathematics**

One course, minimum 3 credits as specified by the program, or if not specified, MTH 025 or higher.

**Human Relations**

3 credits (one course) as specified by program, or if not specified from the approved list on pages 44-45.

**II. Program Core Requirements**

Core course work varies from program to program. Not all programs offer a certificate. See the individual program descriptions for specific requirements and limitations, pages 68-157. See Degree and Certificate Overview, page 33.

Additional Information: See “Degrees and Certificates,” page 33.

- Programs may have specific courses listed to fulfill the Foundational Skills in Section I. For the Human Relations area, a department may substitute another course from the approved course list.
- A maximum of 18 credits of Cooperative Education listed on pages 205-206 may be used.
- A maximum of 12 credits of Physical Education listed on page 44 may be used.
- Developmental courses may be used only when listed specifically by certificate program requirements. Course numbers 001 through 099 usually identify these courses. However, WR 115 taken prior to summer 1999 may not be used.

**One- and Two-year Certificates offered at Lane**

Curriculum for the following certificates may be found on pages 65-157. The certificates are listed in alphabetical order.

- Auto Body and Fender Technology, 2-year
- Automotive Technology, 2-year
- Aviation Maintenance Technician, 2-year
- Basic Manufacturing/Machining Technology, 1-year
- Business Assistant, 1-year
- Computer Specialist, 1-year
- Construction Technology, 1-year
- Construction Trades, General Apprenticeship, 1-year
- Dental Assisting, 1-year
- Diesel Technology, 2-year
- Drafting, 1-year
- Early Childhood Education, 1-year
- Electrician Apprenticeship Technologies, 1-year
- Emergency Medical Technician, 1-year
- Fitness Specialist Level 1, 1-year
- Fitness Specialist Level 2, 2-year
- Fabrication/Welding Technology, 1-year
- Health Records Technology, 1-year
- Human Services: Juvenile Corrections, 1-year
- Industrial Mechanics & Maintenance Technology, 1-year
- Manufacturing Technology, 2-year
- Medical Office Assistant, 1-year
- Multimedia Design, 1-year
- Occupational Skills, 1-year
- Practical Nursing, 1-year
- Web Design, 1-year
- Welding Processes, 1-year

**Oregon Transfer Module**

A state-approved Transcription Notation (not a degree or certificate)

For students intending to transfer within a year to an Oregon University System institution, this transcript notation ensures the 45 credits of specific general education requirements and electives will be accepted at any state institution, and ensures sophomore status for registration purposes. Upon transfer, the receiving institution may specify additional course work required for a major or for degree requirements or to make up the difference between the Transfer Module and the institution's total General Education requirements. Oregon Transfer Module credits also may not match program requirements in the receiving school. Students are encouraged to meet with a counselor or advisor for planning their courses. The Oregon Transfer Module includes 45 credits of course work, equivalent to 3 academic quarters.

**I. Foundational Skills**

**Writing**

Two courses of college-level composition (WR 121, WR 122, WR 123, or WR 227)

**Oral Communications**

One course of fundamentals of speech or communication (SP 100, SP 111 or SP 112)
Planning to Transfer

Lane Community College offers courses for students who wish to pursue a four-year degree at a public or private college or university. A student who attends Lane can complete lower division general education requirements of the four-year colleges and begin work on the requirements for a specific major. The advantages of beginning college studies at Lane include small classes, lower costs, individual help from instructors, and an opportunity to improve writing, reading, math, and study skills.

General education and graduation requirements for specific majors vary among colleges and universities. Lane’s Counseling and Advising Center, a complete resource for students who plan to transfer credit from Lane, has information on colleges and universities and the degree programs they offer. Counselors and advisors are available to help students with academic planning to ensure that course work is appropriate for programs at the four-year colleges they plan to attend. In addition, Counseling offers several transfer workshops each term to help students obtain up-to-date transfer information.

Planning is important because it helps students prepare for further studies in their programs. For instance, it may be important that a student begin mathematics studies as early as possible. For certain majors, students need to be attending the four-year school after the first year of study because specific major requirements are part of the second-year curriculum. Students who have taken advantage of Lane’s advising opportunities have a smooth transfer process and continue on to complete their bachelor’s degrees. In addition to information presented here, please be sure to consult with a counselor or advisor.

Students who have a major in mind, and also want to optimize the amount of coursework that will count toward it, should work closely with an academic adviser and make use of the ATLAS system when designing their degrees. General transfer information is available at oas.edu/stucoun/transfer/planning.

For students intending to become teachers, specific recommendations on structuring their AAOT degrees are given at: How to become an Oregon Teacher, oas.edu/stucoun/prospstu/teached

Second Language Requirement for Admission

For transfer students graduating from high school in 1997 and thereafter, the Oregon University System has a second language admission requirement: two terms of a college-level second language with an average grade of C- or above, or two years of the same high school-level language with an average grade of B- or above, OR satisfactory performance on an approved second language proficiency. Demonstrated proficiency in American Sign Language meets this second language admission requirement.

Direct Transfer

This option is for any student who has selected a transfer school, major and degree and who wishes to satisfy the specific requirements for that college or university. It is especially important that a student who chooses this option works closely with a counselor or advisor at Lane. Direct transfer does not qualify for federal financial aid.

Each student planning to transfer must learn the program requirements of the intended transfer school. Transfer requirements change often. Students should periodically contact Counseling for academic advising and to learn of any possible changes in a program.

Dual Enrollment Program

Lane Community College and University of Oregon Students may take advantage of this agreement between the two institutions to take classes concurrently. Students must be admitted to both institutions and complete an additional application insert that is available at the Admissions Office at the UO and in the Counseling/Advising Center at Lane.

Dual Enrollment admission will allow students to use financial aid to take courses at both campuses. For students with 0-89 eligible credits, the financial aid award is administered by Lane; for students with 90 or more eligible credits, the financial aid award is administered by the University of Oregon.
**Degree Partnership Program (DPP)** Lane Community College and Oregon State University Students can be jointly admitted and enrolled at Lane and OSU. Students must be admitted to both institutions and complete an additional application for DPP available through OSU.

DPP will allow students to use financial aid to take courses at both campuses. For students with 0-89 eligible credits, the financial aid reward is administered by Lane; for students with 90 or more eligible credits, the financial aid is administered by OSU.

**Degrees**
For information about degrees and limitations, see pages 47.

**Transfer Majors** Students can begin preparing for many careers at Lane. The following is a list of majors and the counselor/advisor for Lane courses that may transfer to a university in the Oregon University System. (Not all majors are offered at every university.)

<table>
<thead>
<tr>
<th>Major</th>
<th>Counselor/Academic Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Anthony Hampton/Cindy Lott</td>
</tr>
<tr>
<td>Architecture</td>
<td>Cambria Carson/Christina Saltar</td>
</tr>
<tr>
<td>Area and Ethnic Studies</td>
<td>Anthony Hampton/Cindy Lott</td>
</tr>
<tr>
<td>Art</td>
<td>Christina Salter</td>
</tr>
<tr>
<td>Biology</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Marva Solomon/Deb Hupcey</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Drama</td>
<td>Christina Salter</td>
</tr>
<tr>
<td>Economics</td>
<td>Anthony Hampton/Cindy Lott</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>Marva Solomon/Deb Hupcey</td>
</tr>
<tr>
<td>English</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Environmental Sciences</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Exercise Sci/Movement</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Forestry</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>General Physical Science</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Geographic Information Science</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Geology</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Health and Health Education; Health Care</td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>Christina Salter</td>
</tr>
<tr>
<td>History</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Home Economics</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Hotel, Restaurant and</td>
<td></td>
</tr>
<tr>
<td>Tourism Management</td>
<td>Carolyn Litty/Claudia Riumallo</td>
</tr>
<tr>
<td>Journalism</td>
<td>Christina Salter</td>
</tr>
<tr>
<td>Law (pre-professional)</td>
<td>Anthony Hampton/Cindy Lott</td>
</tr>
<tr>
<td>Life Sciences (biology, botany, zoology)</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Literature (English)</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Medicine (pre-professional)</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Medical Technology (pre-professional)</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Music</td>
<td>Christina Salter</td>
</tr>
<tr>
<td>Nursing (four-year degree)</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Performing Arts (dance, music, theatre)</td>
<td>Christina Salter</td>
</tr>
<tr>
<td>Pharmacy (pre-professional)</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Physical Therapy (pre-professional program)</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Political Science</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Psychology</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Public Administration</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Recreation</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Social Science</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Speech</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Sustainability</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>Christina Salter</td>
</tr>
<tr>
<td>Veterinary Medicine (pre-professional program)</td>
<td>Debby Ganser/Deidre Lyons</td>
</tr>
</tbody>
</table>

**Transfer Hotline** If a student has a problem in transferring classes to an Oregon University System institution, the student should first try to resolve it with his or her advisor. If the problem cannot be solved at that point, the student may call the Transfer Problem Hotline at the Oregon Department of Education for additional help. The hotline number is 541.378.8609.

**Counselors for “Undeclared” Students** A counselor is assigned to each academic department and to each student who is undecided about or is exploring a major. Students can receive guidance in taking initial courses, using career center resources, and setting educational goals.

Schedules for Undeclared counselors and academic advisors are available by calling 541.463.3200 and also can be found along with online academic advising resources by going to Lane’s Moodle site at classes.lanecc.edu, choose Academic Advising, and Undeclared.
Career Technical Programs

The career technical programs described on pages 66-157 and appear in alphabetical order on the list below. Curriculum requirements are listed for each program and descriptions of required and elective courses can be found in the Course Descriptions section of this catalog. Curriculum information for Lane programs is updated annually. The most current information is available from a Lane counselor/advisor or the department offering a particular program. Current counselors/advisors for each program are listed with each program.

Depending on the career technical program in which they are enrolled, students can earn a two-year Associate of Applied Science degree or a one- or two-year certificate of completion.

Lane also offers noncredit opportunities for career training and continuing education. These are described on page 273.

The notations next to each program indicate the following:

AAS Two-year Associate of Applied Science Degree Program
1-yr cer One-year Certificate of Completion Program
2-yr cer Two-year Certificate of Completion Program
CPC Career Pathways Certificate

Food Preparation and Production (CPC)………………Carolyn Litty/Claudia Riumallo
Dental Assisting (1-yr cert)…………………………See Counseling Dept.
Dental Hygiene (AAS)………………………………See Counseling Dept.
Diesel Technology (AAS, 2-yr cert)………………Carolyn Litty/Claudia Riumallo
Lift Truck/Material Handling Equipment Technician Option (AAS)
Drafting (AAS, 1-yr cert)…………………………Carolyn Litty/Claudia Riumallo
Early Childhood Education
(AAS and 1-yr cert)…………………………Marva Solomon/Deb Hupcey
Electrician Apprenticeship
Technology (AAS, cert)…………………………See Counseling Dept.
Limited Electrician Apprenticeship Technologies (cert)
Electronic Technology (AAS)………………Carolyn Litty/Claudia Riumallo
Emergency Medical Technician
(1-yr cert)…………………………………………See Counseling Dept.
Emergency Medical Technology - Paramedic
(AAS)………………………………………………See Counseling Dept.
Employment Skills Training (less than 1-yr cert)………………Co-op
Energy Management Technician (AAS)Debby Ganser/Deidre Lyons
Renewable Energy Technician
Option (AAS)……………………………………Debby Ganser/Deidre Lyons
Resource Conservation
Management Option (AAS)……………………Debby Ganser/Deidre Lyons
Exercise and Movement Science (AAS)………………See Counseling Dept.
Fitness Specialist (2-yr cert)…………………………See Counseling Dept.
Fitness Technician (1-yr cert)…………………………See Counseling Dept.
Fabrication/Welding Technology
(AAS and 1-yr cert)…………………………Carolyn Litty/Claudia Riumallo
Welding Processes (1-yr cert)………………Carolyn Litty/Claudia Riumallo
Flight Technology (AAS)………………Carolyn Litty/Claudia Riumallo
Geospatial Information Science
and Technology (AAS)……………………………………………………………..
Graphic Design (AAS and 2-yr cert)………………Christina Salter
Health Records Technology (1-yr cert)………………See Counseling Dept.
Medical Coding (CPC)………………………………See Counseling Dept.
Medical Transcriptionist (CPC)………………See Counseling Dept.
Hospitality Management (AAS)………………Carolyn Litty/Claudia Riumallo
Food Service
Management (1-yr cert)…………………………Carolyn Litty/Claudia Riumallo
Restaurant Ownership (CPC)………………Carolyn Litty/Claudia Riumallo
Human Services (AAS)…………………………Anthony Hampton/Cindy Lott
Adult Development and Aging (CPC)………………Anthony Hampton/Cindy Lott
Human Services:
Criminal Justice (AAS)…………………………Anthony Hampton/Cindy Lott
Human Services: Juvenile Corrections (1-yr cert)………………Anthony Hampton/Cindy Lott
Industrial Mechanics and Maintenance
Technology (AAS, Cert)…………………………Carolyn Litty/Claudia Riumallo
Manufacturing Technology
(AAS and 2-yr cert)…………………………Carolyn Litty/Claudia Riumallo
Computer Numerical Control Technician Option (AAS)
Massage Therapy (Certificate of Completion)………………Kathy Calise
Medical Office Assistant (1-yr cert)………………See Counseling Dept.
Multimedia Design (AAS and 1-yr cert)………………Christina Salter
Nursing (AAS)……………………………………See Counseling Dept.
Occupational Skills Training (1-yr cert)………………Co-op
Physical Therapist Assistant (AAS)
(pending accreditation candidacy)………………See Counseling Dept.
Respiratory Care (AAS)…………………………See Counseling Dept.
Retail Management
(AAS and 1-yr cert)…………………………Marva Solomon/Deb Hupcey
Retail Management (CPC)………………Marva Solomon/Deb Hupcey
Sustainability Coordinator (AAS)…………………………See Counseling Dept.
Procedures and Policies

Definitions

Academic Requirements Review Committee  The Academic Requirements Review Committee is commissioned to act in an advisory capacity to the Vice President for Academic and Student Affairs on the subject of academic rules and regulations for Lane Community College. Part of the responsibility of the committee is to insure that a high academic standard is maintained. The Academic Requirements Review Committee will not accept petitions solely for the purpose of improving a Grade Point Average or other cosmetic reasons. Typically, the Academic Requirements Review Committee meets once during fall, winter and spring terms to review student petitions. However, meetings may be held as needed throughout the year. Examples of petitions that will be considered by the Academic Requirements Review Committee include:

• substitutions to requirements for AAOT, AS, or AGS degrees
• waiver of requirements for AAS degrees and certificates

Academic Requirements Review Committee petitions are available from Enrollment and Student Financial Services at lanecc.edu/es/forms/html.

Academic Standards and Probation A student who does not achieve satisfactory academic progress (SAP) according to administrative regulations will be placed on academic probation. Students on academic probation will be encouraged to meet with a counselor or advisor. Students who are on academic dismissal will need to seek the help of a counselor or advisor for readmission to the college. Lane’s Academic Standards and Alert System are described on page 54.

Attendance Instructors will announce the attendance policy for each class. Students entering late who may have missed this announcement should contact the instructor for the attendance rules. Students are required to be in attendance during the first week of class unless they have contacted the instructor and received permission for the absence. Otherwise, their place in the class may be given to another student who is waiting for space in the class, and the original student may not be permitted to continue in the class. College instructors may allow visits to one or two class sessions at their own discretion. For more than two visits by the same individual, the written approval of the appropriate department chair/director is required.

Students will be held accountable for attending each class in which they have enrolled. A grade or a withdrawal notation will be assigned for each class unless the student drops the course during the refund period.

Class Schedule The quarterly class schedule is available on the web at lanecc.edu about one week before registration begins. Registration usually begins the fourth week of the preceding term except fall term, which occurs the preceding spring term.

Transfer Credits Students with prior college course work are eligible for an official review after completing six credits in their program or course of study. For more details, see Transfer Process on page 39. Students are encouraged to use the Transfer Equivalency Look-up tool (lanecc.edu/esfs/general-information-transferring-credits) in order to see how credits from other institutions transfer to Lane. The evaluations provided by the Look-up tool are unofficial and not binding. Transfer equivalent information is updated regularly; some transfer partners will have more extensive listings than others. Students may request an instructional department review of transfer course work. Please provide an unofficial copy of your transcript showing the grade received and a course syllabus from the academic year you completed the course to the instructional department.

Miscellaneous Training and Credit  Credit also may be granted for military training as listed on the ACE/AARTS report or work completed at regionally accredited schools. Institutions that are not regionally accredited may be reviewed using the Credit-by-Assessment process.

Cooperative Education Cooperative education provides students with the opportunity for on-the-job education while offering college credit for the experience.

Students enrolled in co-op receive help locating part-time and full-time jobs and internships, guidance about career expectations and demands, instruction in resume preparation and job interviewing skills, and financial benefit from paid positions. Unless prior approval is received from the Cooperative Education Division Chair, students must enroll in a minimum of three credits of co-op per term.

Course A course is any class or subject (e.g., English Composition WR 121, Biology BI 101) for which a student may register.

Course Numbers Course numbers at Lane help students identify which courses count toward degrees and financial aid.

• Credit courses have a course ID that consists of a prefix of letters that identify the subject area followed by digits that identify the level of the course. In the example of WR 121, WR identifies the subject of writing and the 100-level number identifies it as a first year college level course. All credit courses, including pre-college courses, may count toward the minimum course load for financial aid, provided the student meets financial aid criteria.

• Honors Courses span a range of disciplines and topics. Honors courses are designated with _H following the course ID, e.g., Anth 102_H. Any Lane student can enroll in an honors course or request the honors option for courses designated as honors option classes. Admission into the Lane Honors Program, however, requires a formal application. For more information, visit lanecc.edu/honors.

• Developmental credit courses have numbers below 100. Pre-college courses may be required as prerequisites to college level courses or as part of a career technical certificate or applied degree. Developmental courses do not transfer to a four-year institution.
• College level transfer credit courses count toward completion of a degree or certificate and are generally accepted for transfer by other institutions.
• Career technical credit courses count toward Associate of Applied Science degrees or certificates. With some limits, career technical courses may count as electives for transfer degrees. Career technical courses are not automatically accepted for transfer by other institutions. Prefixes for career technical courses are listed on page 41.
• Noncredit courses have numbers in the format XART 5785. The “X” before the discipline in the prefix and the four-digit numbers identify the course as noncredit. Noncredit course offerings are listed and described each term in the class schedule. Under the state’s definition, a noncredit course “does not offer college credit for completion and generally cannot be used as part of a credit based degree or certificate program. No assessment of learning generally takes place.” Noncredit courses will not be counted for financial aid, and will not transfer to another institution.

Credits Credits are granted in recognition of work successfully completed in specific courses. The average load for a full-time student is 12-15 credits per quarter. Part-time students carry fewer than 12 credits per quarter.

Credit Hour Credit granted at Lane is in terms of quarter hours, since Lane is on a quarter-system calendar. Three quarter hours are equal to two semester hours.

One credit hour equates to approximately thirty hours of student involvement over the quarter. For lecture classes, this means ten hours of instruction and twenty hours of preparation on the student’s part. For lab classes, thirty hours in the lab are required per credit.

Classroom Hours There are 12 classroom hours per lecture (credit) hour, 24 classroom hours per lecture/lab (credit) hour and 36 classroom hours per lab (credit) hour.

Graduation Ceremony There is one college graduation ceremony held each year in June. See the Academic Calendar on page 2. All graduates and prospective graduates for the year are invited to attend and bring their friends and relatives. Contact Student Life and Leadership Development for ceremony details.

Since grades have not yet been recorded at the time of graduation, it is not known at that time whether students have completed their programs. Students receive one empty binder during the graduation ceremony. The actual parchments are mailed after degree/certificates have been verified, in ten to twelve weeks. Students applying for degrees or certificates and completing their programs fall or winter terms will receive their degrees earlier in the year. There is a $10 fee for duplicate or additional copies of diploma parchment.

Students who do not attend the graduation ceremony may pick up a binder at the Student Life and Leadership office anytime after the graduation ceremony.

Progress Reports Lane is in the process of piloting a way for students to view their progress toward degree and certification completion. Results will be available to students in myLane. Watch myLane for future announcements.

Oregon Transfer Module The Oregon Transfer Module and OTM designation will be posted in the student’s transcript by request and upon completion. Students must submit the form “Application for Diploma” to verify completion of the requirements.

Direct Transfer Evaluation Direct transfer evaluation is done by Counseling when a student is in transit to another institution. Unofficial copies of transcripts may be used. Students must take copies of transcripts to Counseling for their review of transfer course work.

Enrollment and Student Financial Services Building 1, First Floor, 541.463.3100, (877) 520-5391, or TTY 541.463.4722

Process online admissions, provides registration and billing assistance to all students, and responds to all questions and issues regarding financial aid. Hours are Monday-Thursday, 9 a.m.-5 p.m., and Friday, 9 a.m.-2 p.m.

Full-Time Student A full-time student is anyone carrying 12 or more credit hours per term at Lane. The Social Security Administration defines full-time as 12 or more credit hours per term. Veterans are required to carry 12 credit hours per term to receive full benefits. In most cases, students receiving scholarships are required to complete 12 credit hours per term.

Half-Time Student A half-time student is anyone carrying between six and 11 credits hours per term at Lane. It is important to know that the definition of a half-time student varies with different institutions. Also, it is important to know that a majority of student loans require a student be registered for at least six credits or more per term.

Honor Lists* Lane honors students who achieve high academic standards. Honor list requirements are:

• President’s List: A student must complete a minimum of 12 graded (A,B,C,D,F) credit hours with a term GPA of 4.00.
• Vice President’s List: A student must complete a minimum of 12 graded (A,B,C,D,F) hours with a term GPA of 3.55 through 3.99.

* Notated on official transcripts

Hybrid A course combining traditional classroom activities with online learning so that time spent in the classroom is reduced but not eliminated. Hybrid courses have traditional class sessions, but some classroom hours are replaced by online interactions, assignments and projects. The ratio of classroom activities and online interactions in hybrid courses may vary, but the expectation is that each credit will require approximately 33 hours of student involvement during the quarter, including class time, homework, research projects, studying for exams, online work in hybrid courses, or other out-of-class activities. Hybrid sections of a course are coded with hyb in the term schedule and technical requirements for class participation are clearly explained in notes in the schedule.

“L” Number (User ID) Lane provides all students with a computer generated “user ID” for myLane. This number begins with an uppercase “L” followed by eight digits. The “L” number used with a PIN number will give students access to their student information in myLane, including registration, account payments, schedules, grades, and financial aid information. Refer to each term’s class schedule for information about obtaining an “L” number.

myLane Lane Community College students use web registration on myLane. Using the web, students register for classes from any computer connected to the Internet. For information about myLane, visit Lane’s website at lnnec.edu.

Program A program is state approved curriculum arranged to provide career technical training leading toward an Associate of Applied Science degree or certificate of completion. The courses required for each program are listed under Programs in this catalog.
Student Grades Students access term grades through myLane. See the section on grades in each term’s class schedule for more information on grade availability. An unofficial copy of student grades can be printed from myLane for advising purposes. Students can request an official transcript through myLane or in person from Enrollment and Student Financial Services for a $5 transcript fee plus an additional $5 rush service fee for each transcript requested.

Term A term, or quarter, is approximately an eleven-week period of study. The academic year is summer term through the end of spring term with fall, winter and spring terms being the primary terms. Summer term begins the third week of June and lasts until the second week of September and consists of several sessions. Fall term begins the last week of September and lasts until mid-December. Winter term begins around the second week of January and lasts until approximately the middle of March. Spring term begins the last week of March and lasts until the middle of June. (See the academic calendar in the front of the catalog.)

Procedures
Lane publishes regulations in addition to those in this catalog (class schedule, course syllabus, etc.). Students are responsible for knowing these regulations.

Schedule Changes Students may change their schedule after their original registration by using myLane. The deadline to make schedule changes to full-term classes (adds/drops, pass/nopass, audit options) is midnight Friday of the eighth week of the term. A “full term” is 11 to 12 weeks. Exceptions to this policy are classes that begin and end at times other than the first and last day of the term. Contact Enrollment and Student Financial Services for deadline information for classes shorter than 11 weeks. Students who drop classes after the first week of the term (refund period) will have a withdrawal notation recorded for the class.

Students registered in variable credit courses may add or drop credits through midnight Friday of the last week of classes (before finals week begins).

Course grade options for students after the eight-week deadline are: 1) the grade earned, 2) “NC” (no credit), or 3) “I” Incomplete with instructor approval.

Dropping Classes When a student does not attend classes, it is the student’s responsibility to drop the classes using myLane. To drop from classes, use myLane by midnight Friday of the eighth week of a full-term class.

Administrative Withdrawal Students may be administratively withdrawn for nonattendance or failure to meet prerequisites. Instructors have the right to administratively withdraw/drop students who do not attend at least 50 percent of the class meetings the first week of the term. This period coincides with the refund period.

Do not assume that an instructor will administratively drop you from your class. Students are still responsible for dropping classes they do not plan to attend by using myLane. To receive a refund of paid tuition or a cancellation of tuition not yet paid, students must complete the drop procedure within the refund period. If the class is not dropped during the refund period, the student is responsible for paying the tuition and fees even if he or she did not attend the class.

Students who plan to remain enrolled but have attendance difficulties during the first part of the course should notify the instructor to avoid administrative withdrawal.

Prerequisites Not Met Students enrolled in classes for which they do not have prerequisite skills, test scores, or courses may be administratively withdrawn prior to the start of the term or after grades have been submitted for the previous term.

Social Security Number
Generally, social security number disclosure is voluntary. The college no longer uses social security numbers as a student identification number. Refer to Enrollment and Student Financial Services for further information.

Lane provides all students with a nine digit “L” number as user ID for myLane. This number begins with an uppercase L followed by eight computer generated numbers. A student’s “L” number with a PIN (personal ID number) will be used for myLane functions.

Students who apply for financial aid must supply their social security number on the Free Application for Federal Student Aid (FAFSA). For web access on myLane, financial aid students will be able to use their “L” number and PIN.

Disclosure Statement Required for use in collecting social security numbers
See OAR 581-41-460(2)
Department of Community Colleges and Workforce Development
Revised, January 2001

Providing your social security number is voluntary. If you provide it, the college will use your social security number for keeping records, doing research, reporting, extending credit, and collecting debts. The college will not use your number to make any decision directly affecting you or any other person. Your social security number will not be given to the general public. If you choose not to provide your social security number, you will not be denied any rights as a student. Please refer to the Disclosure Statement listed under the social security heading in your class schedule which describes how your number will be used. Providing your social security number means that you consent to the use of your number in the manner described.

On the back of the same form, or attached to it, or in the schedule of classes, the following statement shall appear:

OAR 589-004-0400 authorizes Lane Community College to ask you to provide your social security number. The number will be used by the college for reporting, research and record keeping. Your number also will be provided by the college to the Oregon Community College Unified Reporting System (OCCURS), which is a group made up of all community colleges in Oregon, the State Department of Community Colleges and Workforce Development, and the Oregon Community College Association. OCCURS gathers information about students and programs to meet state and federal reporting requirements. It also helps colleges plan, research and development programs. This information helps the college support the progress of students and their success in the workplace and other education programs. OCCURS and the college may provide your social security number to the following agencies or match it with records from the following systems:
• state and private universities, colleges and vocational schools, to find out how many community college students go on with their education and to find out whether community college courses are a good basis for further education
• Oregon Employment Department, which gathers information, including employment and earnings, to help state and local agencies plan education and training services to help Oregon citizens get the best jobs available
• Oregon Department of Education, to provide reports to local, state and federal governments used to learn about education, training and job market trends for planning, research and program improvement
• Oregon Department of Revenue and Collection agencies only for purposes of processing debts and only if credit is extended to the student by the college

State and federal law protects the privacy of student records. Social security numbers will be used for the purposes listed above.

Student Records/Enrollment and Student Financial Services
Student Records maintains and processes academic records for Lane. This includes but is not limited to online applications for admission, transfer institution transcripts, course substitution forms, grade change forms, student identification documentation, evaluations, and degree/certificate applications. Academic Requirements Review Committee petitions and Progress Review petitions are processed through Enrollment and Student Financial Services along with registration and graduation records, refund petitions, and probation/dismissal documentation.

Except for the Lane transcript record and current registration, most of this material is archived digitally for all Lane students. Lane transcripts are available on myLane for current students. Most records will be kept indefinitely. If you are a former student and do not know your identification number, you may order your transcripts through the National Student Clearinghouse at studentclearinghouse.org.

Release of Records
In accord with Federal Law (The Family Education Rights and Privacy Act, Public Law 93-380) “FERPA”, students may see and review all official records, files, and data pertaining to themselves with these exceptions: confidential financial information reported by the parent/guardian unless the parent/guardian has explicitly granted permission for the student’s review; and medical, psychiatric, or similar records used for treatment purposes. Access to a student’s own records will be provided as early as possible, but no longer than 45 days from the time of the student’s official request.

A student may challenge the content of a record that she or he considers inaccurate, misleading or in violation of the student’s privacy or other rights. If such a challenge is not resolved with the custodian of the records, the student has the right to an appeal. Further information is available in the Enrollment and Student Financial Services/Student Records Office.

Release of Records/Student Information
Per a federal privacy law, called the Family Educational Rights and Privacy Act of 1974 (FERPA), the college has identified “directory” information that can be released without the student’s written permission. The following information is considered “directory information” and may be released without written permission from a student:

• Student name(s)
• Dates of attendance (not daily)
• Degree program/major field of study
• Honors
• Enrollment status (half-time/full-time only)
• Date of graduation

If you do not want this “directory” information released, you must access the student information release links within myLane. Completing this process will place a confidential block indicator on your records at Lane. This block will:

• When you call Lane, the person answering will say “There is no information available on that person”
• If you come for service in person, you will be asked for a photo identification to verify your identity
• Your name will not appear on honor roll listings or in the graduation booklets
• When employer or other individuals use the National Clearinghouse service to verify attendance or degrees, your information will not be available

If you would like some individuals to access limited information such as your account information, you may also use the Student Information Release process within myLane to provide Lane with a password that you can share with others. Individuals with these passwords must offer these when contacting Enrollment and Student Financial Services and the password must match exactly what you have provided. We can not assist individuals without this password or without having the exact amount owed given.

Information necessary to determine student eligibility for athletic participation and for financial aid granted by state or federal agencies which provide a student’s tuition will be released for those purposes only. This may include term schedules, grades, credit hours of enrollment, and past academic records. A written request from the aid-granting agency is required.

Transcript Records
Official transcripts may be ordered using myLane at lanecc.edu, or through the National Student Clearinghouse at studentclearinghouse.org. The fee is $5 per transcript through myLane and $7.25 through the National Student Clearinghouse. Official transcripts can also be requested via mail by providing name, student identification number, period of enrollment, where the transcript is to be sent, student’s signature and payment of the $5 fee per transcript ordered.

No other person may receive a copy of the student’s transcript or undertake to pick it up for the student unless the student authorizes release of records in writing. Transcripts mailed to other colleges may be ordered via myLane, by mail or in person at Enrollment and Student Financial Services.

The college reserves the right to withhold official transcripts from students who owe monies to Lane. If an official transcript is requested by a student who owes monies, the student is notified that there is a balance owing and given information on how to resolve the issue.

Transfer Transcripts
If a student has taken course work at another college that applies to a program at Lane, the student must see that Enrollment and Student Financial Services receives an official (sealed) transcript of that work. Only official transcripts from regionally accredited U.S. institutions and international institutions with an evaluation agency will be considered. Once received, transcripts become the property of Enrollment and Student Financial Services. Lane cannot provide anyone, including the student, a copy of a transcript from another school. Students should order a copy from their transfer institution for their personal use.
Courses from other schools and colleges are never part of a student’s Lane Community College transcript. Transfer institutions may be noted on the Lane transcript. Such records are not required for admission to Lane, but may be required for financial aid, veterans reporting, admission to a special program, or meeting a course prerequisite.

**Grades** At the end of each term, grades are recorded and made available to students using myLane. Unofficial advising transcripts also may be printed from myLane.

**Grade Changes** If an error has been made in recording or reporting grades, the instructor may initiate a grade change. If a student believes an error occurred, the student should contact the instructor. If the number of credits is increased or a course is added, the additional tuition, fees and any other charges will be charged to the student’s account and the student will be billed at current tuition rates. Late add fees may be applied. Refer to class the schedule for more information. If the student owes money to Lane, the added grade will not be processed until the balance is paid in full.

**Grades and Notations** The following grades and notations are recorded on transcripts and grade records at Lane:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>Excellent Performance</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>Good Performance</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>Satisfactory Performance</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>Less than Satisfactory Performance</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>Unsatisfactory Performance</td>
</tr>
<tr>
<td>+</td>
<td>3.30</td>
<td>Plus or minus 0.30 points, effective July 1, 1999</td>
</tr>
<tr>
<td>-</td>
<td>0.0</td>
<td>Pass (equal to A- thru C-)</td>
</tr>
<tr>
<td>P</td>
<td>0.0</td>
<td>No Pass (D and below)</td>
</tr>
<tr>
<td>I</td>
<td>0.0</td>
<td>Incomplete</td>
</tr>
<tr>
<td>U</td>
<td>0.0</td>
<td>Audit</td>
</tr>
<tr>
<td>W</td>
<td>0.0</td>
<td>Withdrawal (Prior to 1991)</td>
</tr>
<tr>
<td>Y</td>
<td>0.0</td>
<td>No Basis for Grade (Prior to 1997)</td>
</tr>
<tr>
<td>NC</td>
<td>0.0</td>
<td>Not Completed (no credit)</td>
</tr>
<tr>
<td>XN</td>
<td>0.0</td>
<td>Enrolled</td>
</tr>
<tr>
<td>EN</td>
<td>0.0</td>
<td>Completed</td>
</tr>
<tr>
<td>CM</td>
<td>0.0</td>
<td>Not Completed</td>
</tr>
<tr>
<td>XCM</td>
<td>0.0</td>
<td>Conversion Grade</td>
</tr>
</tbody>
</table>

Immediately following the grade:

- @ Credit By Assessment or CEU By Assessment
- < Academic Renewal (not calculated in cumulative GPA)
- * Withdrawal after Refund Deadline (no grade recorded)
- E Repeated Course Points earned not included in the cumulative grade point average (GPA)
- ~ Credit by Exam or CEU By Exam

Please Note: @ Credit by Assessment and ~ Credit by Exam are limited to 25 percent of a degree or certificate. Students may do more than 25 percent, but only 25 percent may be used toward requirements.

**Grade Point Average (GPA):** Included in GPA computation are grades of A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D-, and F. Grades of P are included in earned credit, but not in GPA credit. I, NC, Y, U, *, EN, and W are considered administrative marks rather than grades and have no effect on a student’s earned credit or GPA credit. The grades included in the computation have the following weights:

- A+ = 4.30
- A  = 4.00
- A- = 3.70
- B+ = 3.30
- B  = 3.00
- B- = 2.70
- C+ = 2.30
- C  = 2.00
- C- = 1.70
- D+ = 1.30
- D  = 1.00
- D- = 0.70
- F  = 0.00

The total points for a class are calculated by multiplying the points for the grade times the credits for the class. The GPA is then computed by adding all GPA credits, adding all points, and dividing the total points by the total credits. Example:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 226 - Business Law</td>
<td>3</td>
<td>A</td>
<td>12</td>
</tr>
<tr>
<td>PE 170 - Beginning Tennis</td>
<td>1</td>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>EL 115 - Effective Learning</td>
<td>3*</td>
<td>P</td>
<td>0*</td>
</tr>
<tr>
<td>FE 207 - Coop Ed</td>
<td>2</td>
<td>C+</td>
<td>4.60</td>
</tr>
</tbody>
</table>

**TOTAL GPA Credit 6 TOTAL POINTS 19.60**

19.60 ÷ 6 = 3.264 GPA

* Points are not included in calculation, because of P grade. Total credits earned in this example are nine.

**Term GPAs are calculated using grade points earned only during that term. Cumulative GPA is calculated using all grade points from all terms.**

**Plus (+) and Minus (-) grades** Issuing a “+” or “-” is at the instructor’s discretion. Students with questions regarding an instructor’s grading policy, must contact the instructor.

**NC (No Credit)** Issuing a “NC” is at the instructor’s discretion when the instructor believes the student has not participated enough in the class to earn a grade. It is not meant to and should not be used to replace an “F” grade or an “I.”

**Academic Standards and Alert System** The college believes it has an obligation and a responsibility to help students meet their educational goals. To meet this responsibility, the college will provide assistance to students who, for whatever reason, fail to meet the academic standards necessary to meet their educational goals.

**Academic Standards** Academic standards will be determined based on the total credits you have earned. As the number of credits earned increases, the cumulative GPA and percent of credits completed increases as well, according to the chart below:

<table>
<thead>
<tr>
<th>Cumulative Credit Hours Earned</th>
<th>Cumulative GPA</th>
<th>Percent of Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 36</td>
<td>1.70</td>
<td>50%</td>
</tr>
<tr>
<td>37 - 100+</td>
<td>2.00</td>
<td>50%</td>
</tr>
</tbody>
</table>

In addition to the cumulative grade point average, students must complete 50 percent of their enrolled credits as of the eighth week.

Following is the resulting action for each consecutive term in which a student fails to meet academic standards:

- A student who fails to meet the academic standards will receive an Alert-1 notification. That notification will provide information covering the services of the college that might be helpful.
- A student who fails to meet the academic standards a second consecutive term will be placed on Alert-2, and a notification will be sent encouraging a counselor/advisor conference.
- A student who fails to meet the academic standards a third consecutive term will be placed on Alert-3, and again a notification will be sent encouraging a counselor/advisor conference.
- A student who fails to meet the academic standards a fourth consecutive term will be dismissed from college credit classes and programs for one calendar year.

* Academic Standards may change for the 2013-14 academic year. Policies were not finalized at the time of this printing.

**Petitions to the Academic Progress Review Committee** The student is provided the opportunity to petition the Academic Progress Review Committee for reinstatement into the college earlier than the one year dismissal period. Petitions are available from Enrollment and Student Financial Services at lanecc.edu/esfs/enrollment-services-forms and must be turned in with a student planner by the sixth week of the subsequent term of dismissal.
Removal of Probation  A student who is placed on probation can be removed by exceeding the cumulative grade point average standard. Once removed from probation, students who do not meet the academic standards start again at the warning step.

Pass/No Pass  When a P/NP option has been selected, the instructor still grades on the regular ABCDF system. If the instructor records an A+ or A, the student will receive the A+ or A grade and it will be calculated in the Grade Point Average (GPA). If the grade is A-, B+, B, B- or C+, C, C-, the student will receive a grade of P. If the grade is D+, D, D- or F, the student will receive a grade of NP. Pass and No Pass grades are not calculated in the student’s GPA. A P/NP option must be chosen in myLane by the end of the eighth week of the term for full-term classes. Information on limitations is listed with the individual degree and certificate outlines.

Audit  The audit option allows the student the right to sit in the class, but the instructor has no obligation to grade or record the student’s work. The only grade or mark granted is U (audit). An audit option may be requested during registration and through the eighth week of the term for full-term classes. Audit rates are the same as the tuition rates. The audit counts as an attempted credit.

Request for Incomplete  A student and instructor may fill out a Request for Incomplete form when a student has completed satisfactorily 75 percent or more of the work in a course, but is unable to finish the remaining required, scheduled work due to circumstances beyond the control of the student (serious illness, death in family, and natural disaster are common examples). Some departments may establish a work completed guideline other than 75 percent. An incomplete is not used to avoid a failing grade in a course, or when the remaining scheduled work is not time convenient for the student. A Request for Incomplete is a contract between the student and the instructor which indicates the work to be finished, the time limit within which the work must be completed, and the grade earned if the work is not completed. A student does not need to reregister to finish course work the next term. Sitting in on a class without registering is a violation of college policy. General college policy limits the time for finishing an Incomplete to one year, but the instructor may require a shorter time period. An Incomplete that is over one year old must be approved by the Vice President before it can be changed to a grade with the exception of the grade earned if the work is not completed. When the work has been completed and given to the instructor for evaluation, it is the instructor’s responsibility to see that a grade change form is sent to Student Records, changing the student’s record from Incomplete to the grade earned. If no grade change form is received from the instructor, the grade remains an Incomplete or the instructor may assign a grade if the work is not completed. If the instructor with whom the student completed the Request for Incomplete form is no longer available, the department may assign someone else to evaluate the work and complete the change of grade.

Petition to Absolve for Repeated Courses  A student can have the grade points removed from the cumulative grade point average if the first grade was B, B-, C+, C-, D+, D, D- or F and the class has been repeated at Lane. A course can be retaken only once for this purpose. If a course is retaken more than once, only the oldest course credits will be removed from the grade point average under this policy. The repeated course credits must all be taken in one term at Lane, be taken for a letter grade, and must be equal to or greater than the number of credits completed in the original course. Upon completion of a course, a student can exercise this option by filling out a Petition to Absolve Credit from the Cumulative Grade Point Average form. The form is available at lanecc.edu/esfs/enrollment-services-forms. The Student Records Office will mark the student’s record, noting the repeated course, and remove the credits and grade points of the original course from the cumulative grade point average. The original course and grade will remain on the student’s transcript. This cannot be reversed once it is applied to the student’s record.

NOTE: Many institutions will not recognize Petition to Absolve process when calculating a GPA for admission purposes.

Academic Renewal Policy  

Academic Renewal  Academic renewal is an opportunity for students whose initial effort at Lane resulted in poor grades. After an absence of at least four years, a student who maintains a 2.5 or higher G.P.A. may request that prior grade records be removed from the calculation of the cumulative grade point average. This policy applies only to Lane transcripts and is on a one-time only basis. See the criteria and procedures listed below.

To be eligible for academic renewal, a student must:

• have been absent from Lane for four or more years.
• have completed 24 credits with a GPA of 2.5 upon returning to Lane.
• have completed the academic renewal application.
• not have been granted academic renewal in the past.

Application of the academic renewal policy results in the following:

• All course and grade information will remain on the transcript along with a notation about being granted academic renewal.
• All applicable course work including courses that have been excluded from the GPA will be used to meet graduation requirements if course work meets current degree/certificate standards.
• None of the excluded grades will be calculated in the GPA.

The Academic Renewal cannot be reversed once applied to the student’s record.

Note: Many institutions will not recognize the Academic Renewal process when calculating a GPA for admission purposes.

Student Policies and Complaint Procedures

Lane Community College policies and procedures are subject to change without prior notice.

Board Policies Directly Affecting Lane Students

Treatment of Learners A.020

With respect to interactions with learners, the president shall assure that procedures and decisions are safe, respectful and confidential.

Accordingly, the president shall assure that:

1. The institution represents itself accurately and consistently to prospective students through its catalogs, publications and official statements.
2. Admissions information forms avoid eliciting information for which there is no clear necessity.
3. Methods of collecting, reviewing, transmitting, or storing information about learners will be protected against improper access in compliance with federal and state regulations.
4. Facilities provide a reasonable level of privacy, both visual and aural.
5. The college environment is welcoming and accepting to all learners.

6. Learners have a clear understanding of what may be expected from the services offered.

7. Learners are informed of their rights and responsibilities and are provided a process to address grievances.

8. There is adequate provision for the safety and security of learners.

Harassment Policy D.020
Lane has a zero tolerance policy regarding all forms of harassment. Any proven harassment will result in immediate and appropriate action to stop the harassment and prevent its recurrence, including employee discipline consistent with collective bargaining agreements, or student sanctions. Remedial action will be designed to stop the harassing behavior. Any remedial action will be in keeping with the educational mission of the college. Whether or not the alleged harassing behavior is sufficiently severe or pervasive to be judged a violation of this policy, the college may take action to address a complainant’s concerns and to ensure that Lane, as a workplace and as an academic institution, maintains a respectful environment. All forms of harassment, including student- to-student harassment, are covered by Lane’s harassment policies. Incidents of harassment may bring about sanctions up to and including termination of employment or expulsion from the college.

Sexual Harassment
Sexual discrimination in the form of sexual harassment is prohibited. Sexual harassment is defined as unwanted sexual advances, requests for sexual favors, and/or other verbal, written, visual, or physical sexual conduct that makes the terms or conditions of employment contingent on the acceptance of unwanted sexual advances, that negatively affects employment or educational opportunities, or that creates an intimidating, hostile, or offensive environment for one of the parties.

Harassment Based on Race/Ethnicity or National Origin
Harassment based on race, ethnicity or national origin is defined as unwelcome verbal, written or physical conduct based on a person's actual or perceived race, ethnicity or national origin that unreasonably interferes with an individual's work or academic performance, adversely affects the targeted individual's or others' work or learning opportunities, or creates an intimidating, hostile, or offensive environment.

Possession of Firearms D.030
No person, including students, employees, college patrons and vendors may bring, possess, conceal, brandish, use or be in possession of a firearm, destructive device, or other dangerous weapons as defined by law, or give the appearance of being in possession on college-owned or controlled property or at activities under the jurisdiction or sponsorship of the college, except as provided by ORS 166.370 and federal law. As authorized by ORS 659A.001(4), the exceptions provided by state and federal law do not apply to Lane employees while engaged in work activities. Permitted exceptions include use in conjunction with approved instructional demonstration.

Use of Intoxicants and Controlled Substances D.050
No person may bring onto college property or into any college-owned facility or to any college-sponsored class or activity any intoxicating beverage, controlled substances, volatile inhalants, for the purpose of mind or mood alteration, except in the situations specified in this policy. No person may appear on college property or in any college-owned facility or in any college-sponsored class or activity under the influence of any of the above mentioned substances.

Exceptions to this policy are as follows:

1. Alcohol may be used/served
   a. for cooking and/or instructional purposes in food preparation labs or classes related to the science and/or service of alcohol; or
   b. at college-sponsored activities using procedures specified in administrative rules; or
   c. at college activities catered by legally licensed and insured businesses or agencies, using procedures specified in administrative rules (see lanec.edu/cops/foodalc.htm); or
   d. under no circumstances shall alcohol be served at college-sponsored activities to underage minors as defined by state law.

2. With appropriate documentation, medical marijuana, prescription opiates, or other psychoactive medications, may be used as legally prescribed by a licensed practitioner. However, according to statute, marijuana may not be ingested on campus even with a medical marijuana card.

3. Glue and thinner may be used in class-related lab environments and in facilities construction and maintenance.

Equality of Opportunity in Admissions D.070
Anyone who is at least 18 years of age for credit classes and at least 16 years of age for continuing education classes may enroll at Lane Community College. Under no circumstances shall an applicant who is otherwise qualified be denied admission or given a preference for admission to the college based on an individual’s race, color, national origin, sex, age, marital status, familial relationship, sexual orientation, gender identity, pregnancy, disability, religion, expunged juvenile record, or veteran’s status.

Also, see general Equal Opportunity statement on the inside back cover of this catalog.

Tuition D.110
In order to maintain a constant tuition rate relative to inflation each December, the board will adjust the per credit tuition rate to reflect changes in an appropriate index for two-year public colleges since the last tuition adjustment. The rate will be rounded to the nearest half-dollar and become effective the following academic year (summer term).

Periodically and as needed, the board will review Lane’s tuition rates to ensure: a) that tuition revenues are appropriate for the needs of the district and, b) that Lane’s tuition is comparable with other Oregon community colleges that are similar to Lane in terms of student FTE and instructional programs.

Student Complaint Procedures and Accommodations
Lane Community College is committed to providing a respectful working and learning environment that is free from discrimination, harassment and retaliation. Lane Community College is committed to equal opportunity, affirmative action, cultural diversity and compliance with the Americans with Disabilities Act. The college prohibits discrimination in admissions, employment and access to college programs, activities and services. Sexual harassment and other conduct which creates a hostile, intimidating or offensive environment is prohibited by the college.

For assistance, support or help in resolving problems or information about complaint procedures, please contact the following people:
Harassment

- Coordinator, Women’s Center, Bldg. 1/Rm. 202, 541.463.5353
- Barbara Delansky, Student Life and Leadership, Bldg. 1/Rm. 206, 541.463.5337
- Mark Harris, Counseling, Bldg. 1/Rm. 226, 541.463.5178
- Jim Garcia*, Multicultural Center, Bldg. 1/Rm. 201, 541.463.5144
- Jerry deLeon*, Counseling, Bldg. 1/Rm. 103A, 541.463.5870

* bilingual in Spanish

Employment Discrimination

- Dennis Carr, Human Resources, Bldg. 3/Rm. 114, 541.463.5585

Disability Issues

- Student disability accommodations, assistance and disability related problems: Lynn Lodge, Disability Resources, Building 1, Room 218, 541.463.5089, TTY Relay: 711
- Problems with access to Lane’s facilities: Dave Willis, Director, Facilities Management and Planning, Building 7, Room 204B, 541.463.5566
- Employee workplace accommodations: Darcy Dillon, Human Resources, Building 3, Room 114, 541.463.5589
- Disability related complaints/Section 504 Coordinators: Nancy Hart, Disability Resources, Building 1, Room 218, 541.463.3016, TTY: 711 (student and program issues); Dennis Carr, Human Resources, Building 3, Room 114, 541.463.5585 (staff and employment issues)
- Student rights, responsibilities and conduct: Executive Dean of Student Affairs, ASA, second floor, Administration Building, 541.463.5732, Barbara Delansky, Student Life and Leadership, Building 1, Room 206, 541.463.5337.

Substance Abuse Statement

In keeping with the intent of U.S. Public Law 101-226, Section 22, Drug-Free Schools and Campuses, it is Lane’s obligation to inform you of the health risks associated with use of various illicit drugs and abuse of alcohol. Any substance used through needle-sharing increases risk of AIDS and Hepatitis B.

Type of Drug and Possible Health Risks

Stimulants  Speed up action of central nervous system. (A.) Amphetamines (“speed,” “crank,” “uppers”) heart problems; paranoia; death. Affects fetus. (B.) Cocaine (“coke,” “crack”) confusion; physical tolerance; dependence; damage to lungs and nasal membranes; heart problems; paranoia; convulsions; death. Affects fetus.


Cannabis  Alters perception and mood. (A.) Marijuana (“grass,” “pot”). (B.) Hashish lung damage; dependence; tolerance; confusion, loss of coordination; decreased sex drive.

Hallucinogens  Distort reality. (A.) Lysergic Acid Diethylamide (“LSD,” “ Acid”). Mescaline, MDA, MDMA, DMT, STP, Psilocybin hallucinations; panic; tolerance; “flashbacks”; possible birth defects in user’s children. (B.) Phenycyclidine (“PCP,” “Angel Dust”) depression; irrational behavior; confusion; convulsions; hallucinations; coma; death.


Deliriants  Mental confusion. (A.) Aerosol products (B.) Lighter Fluid (C.) Paint Thinner and other Inhalants damage to brain, lungs; convulsions; death.

Alcohol  A sedative drug  tolerance; dependence; depression; coma; death. Alcohol abuse is linked to cancer, heart and liver damage. Fetal alcohol syndrome.

School Policy

For Student Code of Conduct, including drug and alcohol violations and sanctions, see code above.

State Laws

The trend in the State of Oregon is toward stiffer drug penalties. The following describes the penalties for POSSESSION of key drugs:

Schedule I Class B Felony (heroin, LSD, marijuana, others) Max. prison time is 10 years. Max. fine is $100,000.

Schedule II Class C Felony (amphetamine, cocaine, morphine) Max. prison time is 5 years. Max. fine is $100,000.

Schedule III Class A Misdemeanor (other stimulants, some depressants) Max. prison time is 1 year. Max. fine is $2,500.

Schedule IV Class C Misdemeanor (valium-type tranquilizers, others) Max. prison time is 30 days. Max. fine is $500.

Schedule V Violation (dilute mixtures, compounds with small amounts of controlled drugs) No max. prison time. Max. fine is $1,000.

Delivery of less than 5 grams or possession of less than one ounce of Marijuana is a violation. Oregon HB 2479 established mandatory evaluation, education and treatment services for those under 18 years old. If services are successfully completed, the charge will be dropped. Oregon also has strong new laws allowing cars, boats, etc., that transport illegal drugs to be seized and forfeited.

Alcohol is an illegal drug for those under 21 years of age. For drivers under 18, ANY detectable amount of alcohol (above .00 BAC) is grounds for losing their license until they are 18.

There are many more laws pertaining to alcohol and other drugs. This is a sample to demonstrate that the penalties for illegal drug involvement are real, and criminal conviction may bar a student from his or her chosen career path.

Where to Get Help

For help or more information, contact the Substance Abuse Prevention Office, Building 1, Room 226, 541.463.5178. Counselors are available to any student who may be experiencing alcohol/drug problems. Contact or referral can also be made through Counseling or the Health Clinic. Besides offering support, assessment and referral, these counselors have information on community treatment programs, support groups, private counselors as well as information regarding Lane’s on-campus 12-step meetings (A.A., N.A., ALANON, etc.). Students also can call “INFO LINE” at 541 342-4357 for referral suggestions. Lane offers classes on addiction and related topics. See class schedule index under “drugs.” In addition, the Substance Abuse Prevention program conducts weekly support groups, classes and seminars to interested students.
Student Rights and Responsibilities and Student Code

Student Rights and Responsibilities

I. Freedom of Access to Higher Education
Lane Community College is open to all persons who are qualified according to its admission and good standing requirements.

Anyone age 18 or older may enroll. No high school diploma is necessary. Individuals younger than 18 may attend if they complete and submit the “Under 18 Students Parent/Guardian form” or if they have already received their high school diploma. Community education classes generally are open to anyone 16 or older.

Under no circumstances will an applicant be denied admission to the College because of age; sex; race; color; religion; physical or mental disability; national origin; marital status; sexual orientation; gender identity; pregnancy; veteran’s status; familial relationship; expunged juvenile record; association with anyone of a particular race, color, sex, national origin; nor will preference for admission be based on economic status.

A. Financial Aid
A student applying for or receiving financial aid has the right to know:
- The financial aid assistance available
- The procedures and deadlines for applying
- The cost of attendance
- The criteria used in awarding aid and how financial need is determined
- The terms and conditions of any aid accepted
- How and when aid will be disbursed
- The College’s refund policy
- The repayment consequences of withdrawing from the College
- How satisfactory academic progress is evaluated and what happens if it is not maintained
- How to appeal decisions concerning aid

A student applying for or receiving financial aid has the responsibility to:
- Complete applications accurately and on time
- Read and follow instructions when submitting information
- Read and retain copies of all signed forms
- Choose an academic program and understand the requirements for such program
- Comply with the terms of any Federal Work Study job accepted
- Maintain satisfactory academic progress

For more information about financial aid, go to lanec.edu/finaid

B. Admissions
The College will be open within budgetary limitations to all applicants who are qualified according to its admission requirements. Students who enroll for high school or alternative school credit must comply with the Oregon Compulsory School Attendance Laws. While previous academic status at other institutions will not constitute criteria for denial of admission, not every program is open to every student. Priority to enter classes of limited enrollment will be given to indistrict students who have finished high school and/or are at least 18 years of age. However, the College will assist each student to develop a program of study which meets his or her individual needs and is consistent with feasible College operation. The College is committed to equality of opportunity, affirmative action, and nondiscrimination in admissions. No applicant shall be denied admission to the college because of protected class status.

C. Financial Responsibility
It is the student’s responsibility to pay monies owed the college in a timely manner. The College’s policies regarding payment of tuition and fees are described in the term schedule as well as the College catalog.

II. Evaluation Criteria

A. Academic
Lane Community College instructors will encourage free discussion, inquiry and expression where relevant and appropriate to the educational objectives of the course. It is the instructor’s responsibility to publish educational objectives and to make available to each class the criteria to be used in evaluating student success in that class. It is the responsibility of the students to become aware of these objectives and criteria as published and set forth by the College. Student opinions and behavior outside of class will not be the basis for determining class grades unless such evaluation is specifically related to course requirements.

B. Protection of Freedom of Expression
Students are responsible for learning the substance of any course of study for which they are enrolled. However, students are free to state any reasoned exception to data or views offered in any course of study and to reserve judgment about matters of opinion.

C. Protection Against Improper Academic Evaluation
Students have protection through orderly procedures against unfair academic evaluation. Students’ grades will be based solely on academic achievement, unless otherwise specified by the professor in writing at the first class meeting. Complaints about class requirements and grades must first go through the instructor and the department division dean. Students may appeal grades received by following the Grade Appeals process. Grade appeals are filed with the Academic Requirements Review Committee. Contact Enrollment and Student Financial Services, Building 1, 541.463.3100.

D. Protection Against Improper Disclosure
Information which staff acquire in the course of their work as instructors, advisors and counselors about student views, beliefs and political associations should be considered confidential. Protection of the student against improper disclosure is a serious staff obligation.

E. Accomodations for Access
Disability Resources is committed to providing opportunities to all students with disabilities in order for them to have meaningful access to College programs and services in a barrier-free environment.

Lane’s Disability Resources offers advocates for the removal of attitudinal and architectural barriers, and provides in-class accommodations, advising, resource/referral information, and adaptive equipment. These services are available to students with disabilities who are attending credit courses, Adult Basic Education, and Continuing Education classes on any of the LCC campuses. Students must request services at least two weeks in advance.
F. Academic Dishonesty
Students are expected to conduct their academic affairs in a forthright and honest manner. In the event that students are suspected of classroom cheating, plagiarism or otherwise misrepresenting their work, they will be subject to due process as outlined in the Student Code of Conduct.

G. Standards of Academic Progress
Lane Community College has established standards for academic progress which are applicable to all students. Failure to maintain satisfactory academic progress will result in loss of financial aid progressive alerts and eventual dismissal from the College.

H. Complaint Procedures See page 60.

I. Additional Rights of Petition and Appeal
For grade and academic appeals process, contact Enrollment and Student Financial Services, Building 1, 541.463.3100.

III. Student Records
Lane Community College will abide by federal and state regulations regarding the privacy of student records and comply with the law regarding access procedures. The condition of access to records is set forth in explicit statements.

Transcripts of academic records contain only information about academic status. Information from disciplinary or counseling files will not be available to unauthorized persons on campus or any person off campus without the express written consent of the student involved, except under legal compulsion or in cases where the safety of persons or property is involved. Administrative staff and faculty members will respect confidential information about students which they acquire in the course of their work.

With regard to official documents and student records, information acquired by Lane Community College employees about a student’s views, beliefs, and political associations is confidential and is not to be disclosed unless required by state or federal law. All student records will be maintained in strict compliance with state and federal regulations and Lane personnel procedures defining privacy and confidentiality.

IV. Student Affairs
The College has the responsibility and obligation to establish certain standards in order to preserve the freedom of students.

A. Freedom of Association
Students will be free to organize and join associations to promote their common interests as long as they do not disrupt the College or violate its rules and regulations.

1. Procedures for recognition of student organizations Students who would like to start a new organization, or to join an existing organization should contact the ASLCC (student government) offices for information. The process is simple and, once student groups receive official recognition from ASLCC, they are eligible to reserve space on campus, conduct activities, and co-sponsor events.

2. Advisors All student organizations must have a staff advisor. Upon approval of the Associate Dean, any Lane staff member is eligible to serve as advisor for student organizations.

3. Non-discrimination policies Student organizations must abide by existing College and ASLCC policies and may not restrict membership or participation in events.

4. A recognized club or organization may lose its official recognition and be suspended if actions of its officers or members, or activities of the organization as a whole, violate College policy and procedures.

B. Freedom of Inquiry and Expression
Students and student organizations will be free to examine and discuss all items of interest and to express opinions publicly and privately. Students will always be free to support causes by orderly means, in ways which do not disrupt the operation of the institution or violate College policies and procedures.

C. Use of Facilities
The facilities and services of the College will be open to all of its enrolled students, provided the facilities and services are used in a manner appropriate to the academic community and in compliance with College procedures. The Student Life and Leadership Development Office reserves table space and assists student organizations in scheduling space with the College.

D. Student Participation in College Policies
Students are free to express their views, individually and collectively, on issues of institutional policy and on matters of general interest to the student body. Student representatives are welcome on College committees and councils, and the ASLCC president represents student interests to the Board.

E. Student Publications
With respect to student publications, the Media Commission, as established under board policy, shall be responsible for the appointment of editors, dismissal of editors for cause, recommendations of policies, professional advice, and informal guidance.

The Media Commission is the board of first appeal and review for all questions concerning publications policy and operation. Final appeal is through the President and then the Board.

The student press is to be free of censorship and advance approval of copy. The editors and managers shall not be arbitrarily suspended, suppressed or intimidated because of student, student government, employee, alumni, or community disapproval of editorial policy or content. Similar freedom is assured for oral statements of views on College-controlled and/or student-operated radio or television stations and student-produced programs. This editorial freedom entails a corollary obligation under the canons of responsible journalism and applicable regulations of the Federal Communications Commission.

Neither the Commission nor the President is involved in day-to-day decisions or operations of the student media. Responsibility for the content of publications and for compliance with established policies rests with the student editors and their staffs. Editors and their staffs are guided by the Professional Standards of the Oregon Code of Journalistic Ethics, and by state and federal laws. Advisors are not responsible for content of student publications.

Guidelines for the Media Commission shall be contained in administrative rules and procedures.

F. Distribution of Literature
First Amendment freedom of the press is applicable to the campus of Lane Community College. Therefore, students, off-campus publications, and the distribution of these publications are protected on the main campus and outreach centers. Distribution may be
restricted only if it can be shown that such activity would cause a disturbance or disruption of normal College activities.

Materials to be posted require authorization for such distribution from the Associate Dean, Student Life and Leadership Development. Once authorized, distribution will take place in the prescribed locations on campus, should not disrupt the normal operation of the institution, and should not cause a litter problem.

In case a student, employee, or organization is denied the right to distribute materials on campus, the decision is subject to appeal. All appeals or complaints are subject to the College complaint procedure.

The College reserves the right to designate specific areas for the distribution of printed materials. A listing of these areas is maintained by the Associate Dean, Student Life and Leadership Development on the main campus and by the designated building administrator at each of the following outreach centers: Downtown Campus, LCC at Florence and LCC at Cottage Grove.

G. Visiting Speakers
The College has the responsibility to develop informed, critical, and objective thinking; and such thinking can best be encouraged in an atmosphere assuring a free interchange of ideas. Therefore, Lane Community College students may invite to the campus and hear any person(s) of their choosing in compliance with administrative regulations governing scheduling, publicity, and management of campus activities.

The education of students is not limited to classroom activities. Students have the right to hear a variety of outside speakers. The Student Activities Office and ASLCC are the primary program sources for outside speakers. Individual students or student organizations may request that ASLCC sponsor speakers or may contact Student Activities about other possibilities. All outside speakers must be scheduled through the Student Activities Office to ensure that there is proper scheduling of facilities and other preparations for the event and that the event is conducted in an orderly manner appropriate to the academic community. Institutional control of campus facilities will not be used to censor activities. Sponsorship of guest speakers may be withheld if there are reasonable concerns that the controversial nature of the speaker or content of the speech would lead to disruptions on campus. It is the responsibility of the students sponsoring the event to make it clear to the campus community and the local community that all views expressed are not necessarily those of the students, staff or administration of Lane Community College.

H. Grievance Procedures for Alleged Discrimination or Harassment
Students who feel they have been discriminated against or treated in some unfair manner have access to formal and informal grievance procedures. See specific procedures outlined in the complete student code: General Student Complaint Process. Contact Office of Academic and Student Affairs, 541.463.5732.

V. Discipline
The Student Code of Conduct applies to anyone accepted for admission, registered for one or more classes, and/or enrolled in any special program approved by Lane Community College.

Students are required to provide identification such as a photo identification card or class schedule on demand to campus safety personnel, faculty or administrators.

Students deserve fair and equal treatment, so instructors and administrators must employ discretion when initiating disciplinary actions and procedures. Action is warranted for protection of individuals, property and a positive learning climate.

Faculty members may dismiss a student from the class for the day for in-class behavior they judge to be disruptive or inappropriate. Such actions include, but are not limited to: racial, sexual or religious slurs; verbal or physical interruption; offensive language; chewing tobacco or spitting; smoking; and littering or creating unsanitary conditions.

If a student is dismissed for inappropriate behavior, faculty must submit a written report to their Division Dean and to the Executive Dean, Student Affairs detailing the student's name, date and time of class, and the improper behavior.

Students may be dismissed only for the day of the misbehavior, but may be dismissed from subsequent classes for a new or repeated behavioral offense. Dismissal as a result of faculty action is counted toward the maximum number of absences allowed in the class.

Campus Public Safety may be called to assist in any disciplinary situation. The assisting security officer must file a report on all situation involvement with the Office of Academic and Student Affairs.

Instructors, administrators and classified staff are authorized to employ physical restraint when immediate restraint will prevent injury to the student or others. Physical restraint is not considered a form of physical discipline. The instructor, administrator or classified staff should send a reliable person to the nearest telephone to request emergency assistance from campus safety.

VI. Off-Campus Students
Students enrolled at Lane Community College satellite campuses (Cottage Grove, Florence, Downtown Campus, and community outreach sites) will enjoy the same rights and responsibilities as the students at the main campus and must comply with the Student Code of Conduct and any additional rules for conduct which are specific to the site.

Student Code of Conduct
The purpose of this Code of Conduct is to protect the individual rights of students and staff and to control those actions that go beyond the exercising of such rights.

The College recognizes its obligation to develop intellectual curiosity as well as social and cultural awareness. Further, Lane Community College responsibly provides for the safety and well-being of students and staff, property protection, record security, and other education-related services.

Through this Code of Conduct, Lane Community College describes conduct interfering with the responsibilities and obligations of the College. This document also outlines the penalties imposed for prohibited conduct and explains the procedural due process for alleged student violations and the protection of student rights.
Students charged with code violations are entitled to due process as described in this code and students may appeal certain penalties imposed for violations.

**Article I: Definitions**

1. The term “College” means Lane Community College.
2. The term “student” includes all persons taking courses at the College, both full-time and part-time, pursuing credit or noncredit classes or enrolled in any special program approved by the college. Persons who are not officially enrolled for a particular term, but who have a continuing relationship with the College, are considered “students.”
3. The term “faculty member” means any person hired by the College to conduct classroom activities.
4. The term “College official” includes any person employed by the College, performing administrative or professional responsibilities.
5. The term “judicial advisor” means a College official authorized by the Executive Dean, Student Affairs on a case-by-case basis to impose sanctions upon students found to have violated the Code of Conduct. The Executive Dean, Student Affairs or designee may serve as the judicial advisor or authorize a judicial advisor to serve simultaneously as a judicial advisor and sole member or one of the members of a judicial body. Nothing shall prevent the Executive Dean from authorizing the same judicial advisor to impose sanctions in all cases.
6. The term “member of the College community” includes any student, faculty member, College official, or any other person employed by the College. A person’s status in a particular situation shall be determined by a judicial advisor.
7. The term “College premises” includes all land, buildings, facilities, and other property in the possession of, or owned, used, or controlled by the College (including adjacent streets and sidewalks).
8. The term “organization” means any number of persons who have complied with the formal requirements for College recognition.
9. The term “judicial body” means any person or persons authorized by the Executive Dean, Student Affairs to conduct a hearing to determine whether a student has violated the Code of Conduct and to recommend imposition of sanctions.
10. The term “appellate board” means any person or persons authorized by the Executive Dean, Student Affairs to consider an appeal from a judicial body’s finding that a student has violated the Code of Conduct, or from sanctions imposed by the judicial advisor.
11. The term “shall” is used in the imperative sense.
12. The term “may” is used in the permissive sense.
13. The Executive Dean, Student Affairs is that person designated by the College President and Vice President to be responsible for the administration of the Code of Conduct.
14. The term “policy” is defined as the written regulations of the College as found in, but not limited to, the Code of Conduct, College board policies, the ASLCC Constitution and By-Laws, and the College Catalog.
15. The term “cheating” includes, but is not limited to: 1) use of any unauthorized assistance in taking quizzes, tests, or examinations; 2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or 3) the acquisition, without permission, of a test or other academic material belonging to a member of the College faculty or staff.
16. The term “plagiarism” includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person, without full and clear acknowledgment. It also includes the unacknowledged use of materials such as term papers or other academic materials prepared by a person other than the submitting student.

**Article II: Judicial Authority**

1. The Executive Dean, Student Affairs or designee shall determine the composition of judicial bodies and appellate boards, determining which judicial body, judicial advisor and appellate board shall be authorized to hear each case.
2. The Executive Dean, Student Affairs or designee shall develop policies for the administration of the judicial program and the procedural rules for the conduct of hearings which are consistent with the provisions of the Lane Community College Student Code of Conduct.
3. Decisions made by a judicial body and/or judicial advisor shall be final, pending the normal appeal process.
4. A judicial body may be designated as an arbiter of disputes within the student community in cases which do not involve a violation of the Code of Conduct. All parties must agree to arbitration, and to be bound by the decision, with no right of appeal.

**Article III: Proscribed Conduct**

**A. Jurisdiction of the College**

Generally, College jurisdiction and discipline shall be limited to conduct which occurs on College premises and College-sponsored activities which take place off-campus including placements and internships. This code applies to all students.

**B. Conduct - Rules and Regulations**

Any student found to have committed the following misconduct is subject to the disciplinary sanctions outlined in Article IVB:

1. Acts of dishonesty, including but not limited to the following:
   a. Cheating, plagiarism, or other forms of academic dishonesty.
   b. Furnishing false information to any College official, faculty member or office.
   c. Forgery, alteration or misuse of any College document, record or instrument of identification.
   d. Tampering with the election of any College recognized student organization.
2. Disruption or obstruction of teaching, research, administration, other College activities, including public-service functions on or off campus, or other authorized activities, when the act occurs on College premises.
3. Sexual assault, physical abuse, verbal abuse, threats, intimidation, harassment, coercion and/or other conduct which threatens or endangers the health or safety of any member of the College community.
4. Attempted or actual theft of and/or damage to property of the College or property of a member of the College community or other personal or public property.
5. Hazing, defined as an act which endangers the mental or physical health or safety of a student, or which destroys or removes public or private property, for the purpose of initiation, admission into, affiliation with, or as a condition of continued membership in, a group or organization.
6. Failure to comply with orders or directions of College officials or law enforcement officers acting in performance of their duties and/or failure to identify oneself to these persons when requested to do so.
7. Unauthorized possession, duplication or use of keys to any College premises or unauthorized entry to, or use of, College premises.
8. Violation of published College policies, rules or regulations.
9. Violation of federal, state, or local law on College premises, or at College sponsored and supervised activities including but not limited to:
   a. Use, possession or distribution of narcotic or other controlled substances except as expressly permitted by law.
   b. Illegal or unauthorized possession of firearms, explosives, other weapons or dangerous chemicals on College premises.
10. Public intoxication, use, possession or distribution of alcoholic beverages except as expressly permitted by law and College regulations.
11. Participation in a campus demonstration which disrupts the normal operations of the College and infringes on the rights of other members of the College community; leading or inciting...
12. Obstruction of the free flow of pedestrian or vehicular traffic on College premises or at College sponsored or College supervised functions.

13. Conduct which is disorderly, lewd, or indecent; breach of peace; or aiding, abetting or procuring another person to breach the peace on College premises or at functions sponsored or participated in by the College.

14. Sexual discrimination in the form of sexual harassment is prohibited. Sexual harassment is defined as unwanted sexual advances; requests for sexual favors; and/or other verbal, written, visual, or physical sexual conduct that makes the terms or conditions of employment contingent on the acceptance of unwanted sexual advances, that negatively affects employment or educational opportunities, or that creates an intimidating, hostile, or offensive environment for one of the parties.

15. Theft, or other abuse of computer time, including but not limited to:
   a. Unauthorized entry into a file to use, read, or change contents, or for any other purpose.
   b. Unauthorized transfer of a file.
   c. Unauthorized use of another individual's identification and password.
   d. Use of computing facilities to interfere with the work of another student or College official.
   e. Use of computing facilities to send obscene or abusive messages.
   f. Use of computing facilities to interfere with normal operation of the College computing system.

16. Abuse of the judicial system, including but not limited to:
   a. Failure to obey the summons of a judicial body or College official.
   b. Falsification, distortion, or misrepresentation of information before a judicial body.
   c. Disruption or interference with the orderly conduct of a judicial proceeding.
   d. Knowingly initiating a judicial proceeding without cause (i.e., filing a false report).
   e. Attempting to discourage an individual's proper participation in, or use of, the judicial system.
   f. Attempting to influence the impartiality of a member of a judicial body prior to, and/or during, the course of a judicial proceeding.
   g. Harassment (verbal or physical) and/or intimidation of a member of a judicial body prior to, during, or after the course of a judicial proceeding.
   h. Failure to comply with the sanction(s) imposed under the Code of Conduct.
   i. Influencing or attempting to influence another person to abuse the judicial system.

C. Violation of Law and College Discipline
1. College disciplinary proceedings may be instituted against a student charged with violation of a law which is also a violation of this Code of Conduct. This would apply if both violations result from the same factual situation, without regard to pending civil litigation in court, or criminal arrest and prosecution. Proceedings under the Student Code of Conduct may be carried out prior to, simultaneously with, or following civil or criminal proceedings off campus.

2. When a student is charged by federal, state or local authorities with a violation of law, the College will not request, or agree, to special consideration for that individual because of his or her status as a student. If the alleged offense is also the subject of a proceeding before a judicial body under the Code of Conduct, the College may advise off-campus authorities of the existence of the Code of Conduct and of how such matters will be handled internally within the College community. The College will cooperate fully with law enforcement and other agencies in enforcement of criminal law on campus and in the conditions imposed by criminal courts for the rehabilitation of student violators. Individual students and staff members, acting in their personal capacities, remain free to interact with governmental representatives as they deem appropriate.

Article IV: Judicial Policies

A. Charges and Hearings
1. Any member of the College community may file charges against any student for misconduct. Students should deal with their concerns either through Campus Public Safety or by filing a student complaint. Staff should prepare charges in writing and direct them to the Executive Dean, Student Affairs and/or designee. Charges shall be submitted within 90 days after the incident.

2. The judicial advisor may conduct an investigation to determine the merit of the charges and/or if they can be disposed of administratively by mutual consent of the parties involved on a basis acceptable to the judicial advisor (see Informal Report and Resolution Process). If the charges cannot be disposed of by mutual consent, the judicial advisor may later serve in the same manner as the judicial body or a member thereof (see Formal Complaint Process).

3. All charges shall be presented to the accused student in written form. A time of not less than five nor more than fifteen calendar days after the student notification shall be set for a hearing. Time limits for scheduling a hearing may be extended at the discretion of the judicial advisor.

4. Hearings shall be convened by the judicial advisor and conducted by a judicial body according to the following guidelines:
   a. Hearings shall be conducted in private. Hearings will be chaired by the judicial advisor or his or her designee.
   b. Admission of any person to the hearing shall be at the discretion of the judicial body and/or its judicial advisor.
   c. In hearings involving more than one accused student, the chairperson of the judicial body, at his or her discretion, may permit separate hearings for each student.
   d. The complainant and the accused have the right to be assisted by any advisor they choose, at their own expense. The advisor may be an attorney. The complainant and/or the accused is responsible for presenting his or her own case. Therefore, advisors are not permitted to speak or to participate directly in any hearing before a judicial body.
   e. The complainant, the accused and the judicial body shall have the right of presenting witnesses, subject to the right of cross examination by the judicial body.
   f. Pertinent records, exhibits and written statements may be accepted as evidence for consideration by a judicial body at the discretion of the chairperson.
   g. All procedural questions are subject to the final decision of the judicial body chairperson.
   h. After the hearing, the judicial body shall determine (by majority vote if the body consists of more than two people) whether the student has violated the code(s) of conduct as charged.
   i. The judicial body’s determination shall be made on the basis of whether it is more likely than not that the accused student violated the Code of Conduct.
   j. The judicial body shall report its findings to the judicial advisor who will impose sanctions.

5. There shall be a single record of all hearings before a judicial body. The record shall be the property of the College.

6. Except in the case of a student charged with failing to obey the summons of a judicial body or College official, no student may be found to have violated the Code of Conduct solely because the student failed to appear before a judicial body. In all cases, the evidence in support of the charges shall be presented and considered.
B. Sanctions
1. The following sanctions may be imposed by the judicial advisor upon any student, group or organization found to have violated the Code of Conduct.
   a. Counseling, educational activities, and/or training - For violations involving substance abuse the student will be required to work with the Substance Abuse Prevention Coordinator.
   b. Warning - A notice in writing to the student that the student is violating or has violated institutional regulations.
   c. Probation - A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to be violating any institutional regulation(s) during the probationary period.
   d. Loss of Privileges - Denial of specified privileges for a designated period of time.
   e. Fines - Fines may be imposed.
   f. Restitution - Compensation for loss, damage or injury. This may take the form of appropriate service and/or monetary or material replacement.
   g. Discretionary Sanctions - Work assignments, service to the College or other related discretionary assignments.
   h. Deactivation - Loss of all privileges, including College recognition, for a specified period of time (applies to student groups or organizations).
   i. College Suspension Separation of the student from the College for a definite period of time, after which the student is eligible to return. Conditions for re-admission may be specified.
   j. College Expulsion - Permanent separation of the student from the College.
2. More than one of the sanctions listed above may be imposed for any single violation.
3. Disciplinary sanctions shall not be made part of the student’s permanent academic record, but shall become part of the student’s confidential record. Upon graduation, the student’s confidential record may be expunged of disciplinary actions other than College suspension or expulsion, upon application to the Executive Dean, Student Affairs. Cases involving the imposition of sanctions other than College suspension or expulsion shall be expunged from the student’s confidential record, consistent with the College’s schedule of record disposition.
4. In each case in which a judicial body determines that a student has violated the Code of Conduct, the sanction(s) shall be determined by the judicial advisor. In cases in which persons other than, or in addition to, the judicial advisor have been authorized to serve as the judicial body, the recommendation of all members of the judicial body shall be considered by the judicial advisor in determining and imposing sanctions. The judicial advisor is not limited to sanctions recommended by members of the judicial body. Following the hearing, the judicial body and the judicial advisor shall advise the accused in writing of its determination and any sanction(s) imposed.

C. Interim Suspension
In certain circumstances, the Executive Dean, Student Affairs or designee may impose a College suspension pending a hearing before a judicial body, or imposition of sanctions.
1. Interim suspension may be imposed only: a) to ensure the safety and wellbeing of members of the College community or the preservation of college property; b) to ensure the student's own physical or emotional safety and well-being; or c) if the student poses a threat of disruption to, or interference with, the normal operations of the College.
2. During interim suspension, students shall be denied access to the campus (including classes) and/or all other College activities or privileges for which the student might otherwise be eligible, as the Executive Dean, Student Affairs or designated judicial advisor determines appropriate.

D. Appeals
1. A decision reached by a judicial body, or a sanction imposed by the judicial advisor, may be appealed by the accused student or complainant to an appellate board within five (5) school days of the decision. Such appeals shall be in writing and shall be delivered to the Executive Dean, Student Affairs or designee.
2. Appeals shall be limited to review of the record of the initial hearing and supporting documents, except as required to explain the basis of new evidence for any of the following:
   a. To determine whether the original hearing was conducted fairly in light of the charges and evidence presented and in conformity with the prescribed procedures, giving the complaining party a reasonable opportunity to prepare and present evidence that the Code of Conduct was violated, and giving the accused student a reasonable opportunity to prepare and to present a rebuttal of those allegations.
   b. To determine whether the decision reached regarding the accused student was based on substantial evidence; that is, whether the facts in the case were sufficient to establish the fact that a violation of the Code of Conduct had occurred.
   c. To determine whether the sanction(s) imposed were appropriate for the violation of the Code of Conduct which the student was found to have committed.
   d. To consider new evidence sufficient to alter a decision or other relevant facts not brought out in the original hearing because such evidence and/or facts were not known to the person appealing at the time of original hearing.
3. The appellate board will submit a written report of its findings and recommendations to the Executive Dean, Student Affairs or designee within 20 working days. The appellate board’s report may include both majority and dissenting opinions. The Executive Dean, Student Affairs or designee will make the final decision on the appeal and notify the accused student and/or complaint in writing within 10 working days. If the Executive Dean, Student Affairs was the judicial advisor in the original complaint, the appellate board’s report will be submitted to the Vice President for Academic and Student Affairs for final decision.
4. In cases involving appeals by a student accused of violating the Code of Conduct, review of the sanction by an appellate board may not result in more sanction(s) for the accused student.
   Instead, following an appeal, the Executive Dean, Student Affairs may upon review of the case, reduce, but not increase, the sanctions imposed by the judicial advisor.
5. In cases involving appeals by persons other than the student accused of violating the Code of Conduct, the Executive Dean, Student Affairs may, upon review of the case, reduce or increase the sanctions imposed by the judicial advisor or remand the case to the original judicial body and judicial advisor.

Article V: Interpretation and Revision
A. Code Interpretation
Any question of interpretation regarding the Code of Conduct shall be referred to the Executive Dean, Student Affairs or designee for final determination.

B. Code Revision
The Code of Conduct shall be reviewed every five years under the directions of the Executive Dean, Student Affairs.

Smoking Policy
Effective the beginning of fall term, 2010, the College smoking policy was amended as follows:
Smoking and other tobacco use is prohibited in all core areas of LCC campuses; smoking and tobacco use may be allowed in some designated peripheral areas. Electronic cigarettes also are prohibited.


Security and Safety at Lane

The Federal Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, requires colleges to publish information about crime on their campuses. A copy of Lane’s Clery Report is located on the Public Safety web page at lanecc.edu/psd/public-safety-services or may be obtained in writing at the Public Safety office. At Lane, security and safety are college-wide efforts. With students, faculty and staff committed to prevention, crime can be minimized.

The Lane Community College Public Safety department provides direct services to the 30th Avenue campus, Downtown Campus, Downtown Center. The Cottage Grove and Florence campuses and Flight Technology Center are served by their local law enforcement agencies, which report incidents at college sites to the college’s Public Safety department. Public Safety provides services at the Downtown Campus including the Titan Court residential facility 24 hours a day, 7 days a week. To contact an officer, call 541.463.4949.

Lane Community College Public Safety Officers are certified under Oregon Department of Public Safety Standards and Training. They maintain an atmosphere conducive to education, contribute to a safe campus environment, enforce parking and traffic regulations, conduct investigations of reported crimes, and share reports with other law enforcement agencies.

Public Safety officers are authorized to enforce motor vehicle and parking laws on campus. Officers are charged with responding to crimes, medical emergencies and violations of college policy/rules and may cite or arrest perpetrators of criminal acts or college policy violations. In addition, officers utilize law enforcement tools such as the Criminal Justice Information System, Law Enforcement Data System (LEDS).

Preventing Crimes

Education The majority of criminal incidents on campus result from leaving property unattended, lockers unlocked and valuable property visible in cars. The Public Safety department provides speakers on crime prevention, self-defense, personal safety, sexual assault prevention and other criminal justice and safety topics.

Intoxicants Drugs and intoxicants are not permitted on campus, except under very specific circumstances which are detailed in the Student Policies section.

Lighting and Landscaping College staff work constantly to maintain good lighting and to clear undergrowth to improve visual access on campus.

Patrol Service Public Safety conducts patrols of the campus by squad car, motorized T-3, bicycle, and by foot. This comprehensive patrol policy promotes community policing and crime prevention activities. In addition to patrol service, Public Safety works closely with the Lane County Sheriff’s Department, Eugene Police Department, and federal agencies such as ATF and FBI.

Emergency Assistance

There is always a Public Safety Officer on campus. To contact Public Safety:

Red Telephones Use one of the 40 red telephones on main campus and at the Downtown Campus. These emergency phones automatically ring in the Public Safety department when the receiver is lifted.

Blue Telephones There are a small number of “blue” emergency phones located in outside areas of the campus. These phones connect directly to Public Safety Emergency (5555).

All emergency phones are checked periodically to ensure that they function.

Dial 5555 On campus dial or ask a staff member to dial 541.463.5555 for emergencies from other college phones to reach Public Safety.

Non-emergency Dial 541.463.5558 for non-emergency calls.

After Hours From 5 p.m. - 8 a.m. Monday through Friday, on weekends and holidays, the college’s emergency after-hours law enforcement agency will answer. Give your name, location and phone number, and the service will contact on-site officers to return your call and respond to your location.

Campus Elevators Call boxes in elevator cars all connect to Public Safety Emergency (5555).

Emergency Car Services Emergency car booster packs are offered 24 hours a day. Call or visit Public Safety. Individuals must pick up the packs at Public Safety, Bldg. 13, Rm. 107. Public Safety does not assist in vehicle entry, but will assist in contacting local locksmiths or other help.

Emergency Escorts If your safety is threatened, contact Public Safety and an officer will be dispatched.

Reporting and Response

Anyone knowing of or suspecting a crime should promptly report it to Public Safety in Building 13, Room 107. When a suspect is apprehended, the suspect may be served an order to appear at a Student Conduct Code hearing, taken into custody, or both. Public Safety Officers may facilitate contact between the victim and local law enforcement agencies.

Services

Counseling and the Women’s Program Counseling provides limited services to crime victims and/or makes referrals to other resources in the community. The Women’s Program provides services and referral to victims of sex and domestic violence offenses.

Other Services Public Safety provides numerous other services including: criminal background checks, access control system maintenance, alarm monitoring and response, safety escorts, copies of accident reports, and personal safety instruction.

Reported Crimes

The number of crimes reported to Public Safety and local law enforcement in the categories set forth in the Crime Awareness and Clery Act may be found at the Public Safety web site: lanecc.edu/psd/clery-compliance-information.

For more information about Lane’s Public Safety Department, contact 541.463.5558.
Career Technical Programs

Accounting

Offered by the Business Department, 541.463.5221

Two-Year Associate of Applied Science Degree, Accounting

Career Pathway Certificate of Completion, Payroll Clerk

Purpose To prepare graduates to enter the field of accounting. The program offers two directed elective sequences. The student can choose to prepare for employment in full-cycle bookkeeping or specialize in payroll accounting.

Learning Outcomes The graduate of the Associate of Applied Science program will be able to:

- organize and manage the daily business functions of an organization.
- apply critical thinking and analytical skills in decision-making and problem solving.
- anticipate and actively explore innovative solutions to technological and organizational challenges.
- use software including word processing, spreadsheets, and databases to input, manage, and interpret information to meet organizational needs.
- create and present professional documents, work papers, and presentations for both internal and external users.
- work independently within diverse business environments; apply individual strengths and critical thinking to collaborative efforts.
- perform on the job in ways that reflect professional ethics, legal standards, and organizational expectations.
- understand accounting as the “language of business.”
- use computerized and manual systems to record data and prepare accounting statements and reports.
- use research and analytical skills to support the activities of the organization.
- formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.
- apply accounting theory to analyze accounting information.
- Plan, budget and evaluate financial performance.
- Understand and monitor the financial, tax, payroll, legal, and other compliance requirements for a variety of organizational entities.

Job Openings Projected through 2020

Lane County openings - 71 annually

Statewide openings - 792 annually

Wages

Lane County average hourly - $17.07; average annual - $35,508

Oregon average hourly - $17.69; average annual - $36,809

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

Resident Tuition and Student Fees.......................... $9,277
Books and materials........................................... $2,730
Laptop computer ................................................. $1,200

Total Estimate $13,207

Accounting course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Note All Business Department majors must have a computer that meets minimum system requirements. Contact the department or advisor for details.

Cooperative Education (Co-op) Co-op offers students graded college credit for on-the-job work experience related to educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for future job openings. Three credits of Co-op are required for the AAS degree. Additional Co-op credit is strongly recommended as an elective. Contact Jamie Kelsch, Accounting Co-op Coordinator, Bldg. 19, Rm. 253A, 541.463.5540, kelsch@lanecc.edu

Course Requirements

1. Students must place at least into WR 121 and MTH 065, or take classes to reach these levels before enrolling in program courses. Consult course descriptions for prerequisites on other courses.
2. Before enrolling in BT 120 MS WORD for Business or BT 123 MS EXCEL for Business, students are expected to have a basic knowledge of the Windows operating system and the ability to type 30 words per minute accurately and key 130-132 strokes per minute on an electronic calculator (or numeric keypad). The Business Department offers free placement tests to assist students in determining their skill levels. Additional testing information and schedule details are available at: lanecc.edu/business/testing/keyboarding-skill-competency-recommendations
4. An approved 3-credit Health class can be substituted for the PE requirement. Please speak with your academic advisor.
5. BT 020 must be taken for a letter grade, not P/NP.
6. Speech course must be passed with a grade of “Pass” or “C-” or better to satisfy program requirements.
7. BT 170, MTH 095, MTH105, and WR 121 must be taken for a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.
8. All other courses (BA, BT, CS and MTH 095) must be taken for a letter grade, not P/NP, and passed with grade of “C” or better to satisfy program requirements.

Accounting

Two-Year Associate of Applied Science Degree

Required Prerequisite

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT 108 Business Proofreading and Editing</td>
<td>4</td>
</tr>
<tr>
<td>Total Required Prerequisite Credits</td>
<td>4</td>
</tr>
<tr>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td>BT 112 Team Building Skills</td>
<td>3</td>
</tr>
<tr>
<td>BT 120 MS WORD for Business</td>
<td>3</td>
</tr>
<tr>
<td>MTH 095 Intermediate Algebra or higher</td>
<td>5</td>
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<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education requirement</td>
<td>1</td>
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<tr>
<td>Total Credits</td>
<td>16</td>
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<tr>
<td>Winter</td>
<td></td>
</tr>
<tr>
<td>BA 101 Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BT 123 MS EXCEL for Business</td>
<td>4</td>
</tr>
<tr>
<td>BT 165 Introduction to the Accounting Cycle</td>
<td>4</td>
</tr>
<tr>
<td>BA 214 Business Communications</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
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<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>BT 020 10-Key Calculator</td>
<td>1</td>
</tr>
<tr>
<td>BT 163 QuickBooks</td>
<td>4</td>
</tr>
<tr>
<td>BT 206 Co-op Ed: Business Seminar</td>
<td>2</td>
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<tr>
<td>MTH 105 Intro to Contemporary Math</td>
<td>4</td>
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</tbody>
</table>
Payroll Clerk

Career Pathway Certificate of Completion

Purpose This Career Pathway Certificate of Completion is designed for professional office personnel who are interested in career enhancement, or for current Business students with office experience who wish to expand their options to enter the field of accounting as payroll clerks. The program provides the foundation necessary to prepare for the Fundamental Payroll Certification Test (FPC) offered by the American Payroll Association.

Learning Outcomes The graduate of the Payroll Clerk Certificate of Completion will be able to:

- understand accounting as the “language of business.”
- use computerized and manual systems to record data and prepare accounting statements and reports.
- use research and analytical skills to support the activities of the organization.
- apply critical thinking and analytical skills in decision-making and problem solving.
- formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.
- use software including word processing, spreadsheets, and databases to input, manage, and interpret information to meet organizational needs.
- provide basic training and technical support for users of office equipment and software systems.
- create professional, accurate documents.
- make effective presentations to internal and external audiences.
- work independently within diverse business environments, apply individual strengths and critical thinking to collaborative efforts.
- engage customers and co-workers in a purposeful manner – listening to and accurately interpreting their responses within diverse cultural contexts.
- perform on the job in ways that reflect professional ethics, legal standards, and organizational expectations.

Note All Business Department majors must have a computer that meets minimum system requirements. Contact the department or advisor for details.

Course Requirements

1. BT 170 must be taken for a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.
2. All other courses (BA, BT) must be taken for a grade, not P/NP, and passed with grade of “C” or better to satisfy program requirements.

Administrative Office Professional

Offered by the Business Department, 541.463.5221
Two-Year Associate of Applied Science Degree, Administrative Office Professional

Purpose To train administrative office professionals for a wide variety of office support duties. They may handle correspondence, maintain electronic and manual files, assist with financial...
record keeping, operate a variety of office equipment, assist customers, answer telephones, act as a receptionist, perform general office duties, and use personal computers for internet research, word processing, and financial analysis. They are capable of assuming some executive decision-making responsibilities. This program provides the foundation necessary to prepare for the Certified Professional Secretary examination. Upon successful completion of the first year courses, students will be eligible for the Business Assistant One-Year Certificate of Completion.

### Learning Outcomes
The graduate of the Associate of Applied Science program will be able to:

- organize and manage the daily business functions of an organization.
- use software including word processing, spreadsheets, databases, and presentation tools to input, manage, and interpret information to meet organizational needs.
- perform on the job in ways that reflect professional ethics, legal standards, and organizational expectations.
- create professional, accurate documents.
- anticipate and actively explore innovative solutions to technological and organizational challenges.
- provide basic training and technical support for office equipment and software systems.
- understand accounting as the “language of business.”
- engage customers and co-workers in a purposeful manner – listening to and accurately interpreting their responses within diverse cultural contexts.
- use research and analytical skills to support the activities of the organization.
- work independently within diverse business environments, apply individual strengths and critical thinking to collaborative efforts.
- make effective presentations to internal and external audiences.
- use appropriate library and information resources to research business topics.
- apply critical thinking and analytical skills in decision-making and problem solving.
- perform administrative, management, financial, and Web support functions using technology.
- apply and integrate advanced computer software applications to complete complex projects and documents.
- use communication, teamwork, and interpersonal skills for internal and external customer support.
- perform in office management level positions after additional office experience.
- have enhanced employment opportunities based on selection of directed electives, such as accounting, E-Business, legal, and medical.
- formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.
- use good keyboarding skills to prepare documents quickly and accurately according to employer standards.

### Job Openings Projected through 2020

<table>
<thead>
<tr>
<th>Statewide openings</th>
<th>380 annually</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lane County openings</td>
<td>28 annually</td>
</tr>
</tbody>
</table>

### Wages

<table>
<thead>
<tr>
<th>Location</th>
<th>Hourly Average</th>
<th>Annual Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lane County</td>
<td>$22.13</td>
<td>$46,049</td>
</tr>
<tr>
<td>Oregon</td>
<td>$22.68</td>
<td>$47,188</td>
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### Costs

(estimate based on 2012 tuition and fees. consult Lane’s website for updated tuition.)

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Resident Tuition and Student Fees</td>
<td>$9,187-$9,907</td>
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<tr>
<td>Personal Computer</td>
<td>$1,500</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$2,700</td>
</tr>
</tbody>
</table>

### Course Requirements

1. Prerequisites are required for some courses. see course descriptions.
2. All Business Department majors must have a computer that meets minimum system requirements. Contact the department or academic advisor for details.
3. Foundational Requirements (WR 121, MTH 065, and Health/Wellness/Fitness courses) must be taken for a letter grade, and must be completed with a grade of “C-” or better to meet program requirements.
4. All program core courses (BA, BT, CS) must be taken for a letter grade, and must be completed with a grade of “C” or better to meet program requirements. see course listings for prerequisites.
5. Students must place at least into WR 121 and MTH 065, or take classes to reach these levels before enrolling in program core courses.
6. Before enrolling in BT 120 MS WORD for Business or BT 123 MS EXCEL for Business, students are expected to have a basic knowledge of the Windows operating system and the ability to type 30 words per minute accurately and key 130-132 strokes per minute on an electronic calculator (or numeric keypad). The Business Department offers free placement tests to assist students in determining their skill levels. Additional testing information and schedule details are available at: lanecc.edu/business/testing
8. The AOP program has graded keyboarding skill levels built into several courses. For details: lanecc.edu/business/testing/keyboarding-skill-competency-recommendations.

### Required Prerequisite

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tr>
<td>BT 108</td>
<td>Business Proofreading and Editing</td>
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### Total Required Prerequisite Credits 4

### Administrative Office Professional

#### Two-Year Associate of Applied Science Degree

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>BT 112 Team Building Skills</td>
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<td></td>
<td>BT 120 MS WORD for Business</td>
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<tr>
<td></td>
<td>CS 120 Concepts of Computing:</td>
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<td></td>
<td>Information Processing</td>
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<td></td>
<td>WR 121 Introduction to</td>
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<td>Academic Writing</td>
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<td>Winter</td>
<td>BA 101 Introduction to Business</td>
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<td>BT 123 MS EXCEL for Business</td>
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<td></td>
<td>BT 185 Introduction to the</td>
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<td>Accounting Cycle</td>
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<td>MTH 065 Elementary Algebra or</td>
<td>4</td>
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<td>higher</td>
<td></td>
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<tr>
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</tbody>
</table>
Legal Office Skills

Career Pathway Certificate of Completion

Purpose This Career Pathway Certificate of Completion is designed for those with office experience who wish to expand their options for employment in law-related business and government offices. It also prepares students for transfer into the second year of Umpqua Community College’s AAS Degree in Paralegal Studies, which is offered completely online. Legal careers require criminal and personal background checks.

The partnership between Lane and Umpqua allows students to work toward their Legal Office Certificate while at Lane, and if they choose to continue their education, they can transfer that certificate to Umpqua to begin second year classes of the AAS in Paralegal Studies. Federal regulations prohibit students from majoring in a degree not awarded from the institution they are attending. Please see your academic advisor to discuss major options while you are attending Lane.

Federal regulations also prohibit receiving financial aid for the same term at more than one institution. Students who plan to transfer to Umpqua to pursue an AAS in Paralegal Studies will need to stop receiving financial aid from Lane and apply for financial aid from Umpqua when they transfer.

Learning Outcomes Students earning the Legal Office Skills Certificate of Completion will be able to:

• use and understand basic legal terminology and concepts.
• demonstrate an understanding of the role of lawyers in the legal system.
• demonstrate an understanding of the roles and duties of all levels of legal support personnel in the legal environment.
• prepare accurately formatted legal documents, letters, and pleadings and compose correspondence commonly used in legal settings.
• draft basic pretrial documents.
• demonstrate an understanding of pretrial and trial procedures.
• develop questions for gathering information and facts in preparation for trial.
• evaluate and practice rules of ethics as they would apply to civil litigation.
• demonstrate an understanding of ethics as they relate to confidentiality, competence, fees, billing, conflicts of interest, and UPL.
• demonstrate an understanding of the purposes and functions of court rules, schedules, and procedures.
• demonstrate a basic knowledge of requirements for recording and filing documents with the proper court offices.
• demonstrate an understanding of and use a variety of legal office systems including document management and calendaring.
• demonstrate an understanding of and practice basic functions of legal billings and timekeeping, client relations, and litigation support.
• use law library, computing and communication services to obtain legal forms, information, and data from regional, national, and international networks.
• work independently within diverse business environments; apply individual strengths and critical thinking to collaborative efforts.
• use research and analytical skills to support the activities of the organization.

Academic Advising Online
Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. Students entering this program must have completed MTH 065 Elementary Algebra or higher and WR 121 English Composition. WR 121 and MTH 065 must be taken for a letter grade, and must be completed with a grade of “C-” or better to meet program requirements.
3. All courses must be taken for a letter grade, and must be completed with a grade of “C-” or better or repeated to meet program requirements.
4. BA 101 and sophomore standing or instructor consent is required to take BA 211.
5. Students are expected to have the ability to accurately type 40 words per minute before taking LA 100. The Business Department at Lane offers free placement tests to assist students in determining skill levels. Students who are unable to meet the minimum requirements should consider completing keyboarding and/or skill building courses to reach the required skill level. Additional testing information and schedule details are available at: lanec.edu/business/testing/keyboarding-skill-competency-recommendations.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 100 Legal Procedures</td>
<td>4</td>
</tr>
<tr>
<td>LA 102 Legal Terminology</td>
<td>3</td>
</tr>
<tr>
<td>BT 108 Business Proofreading and Editing</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BA 211 Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>CS 120 Concepts of Computing: Information Processing</td>
<td>4</td>
</tr>
<tr>
<td>LA 101 Introduction to Paralegal Studies</td>
<td>3</td>
</tr>
<tr>
<td>LA 128 Legal Procedures 2</td>
<td>4</td>
</tr>
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<td><strong>Total Credits</strong></td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LA 214 Business Communications</td>
<td>4</td>
</tr>
<tr>
<td>LA 105 Civil Litigation</td>
<td>3</td>
</tr>
<tr>
<td>LA 132 Ethics for the Legal Professional</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td></td>
</tr>
<tr>
<td>SP 105 Listening and Critical Thinking</td>
<td>4</td>
</tr>
<tr>
<td>SP 218 Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td>SP 219 Small Group Discussion</td>
<td></td>
</tr>
<tr>
<td>BT 206 Co-op Ed: Business Seminar</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Office Software Specialist

Career Pathway Certificate of Completion

Purpose This Career Pathway Certificate of Completion is designed for professional office personnel who are interested in career enhancement, or for current Business students with office experience who wish to expand their software proficiency. In today’s competitive job market, Office Software Specialist certification can bring employment opportunities, greater earning potential and career advancement, and increased job satisfaction.

Learning Outcomes The graduate of the Office Software Specialist Certificate of Completion will be able to:
- use cell, row and column, and worksheet formatting techniques to create professional-looking spreadsheets.
- use sophisticated Excel functions to perform sensitivity analysis to solve business problems.
- plan and develop a worksheet to solve complex business problems by using named cells and ranges, complex logical and nested logical functions, and relative, absolute, and mixed cell references in creating formulas and functions.
- work with arrays, iteration, multi-sheet data, form controls, look up functions, date and time functions, and math and statistical functions in a business problem-solving context.
- create presentations from a template, from existing slides, or by using the AutoContent Wizard and apply appropriate design principles to design, create, and present an original slide show using PowerPoint software.
- customize color schemes, apply slide transitions and animation effects, create a custom background, add animated clip art, link slides within the presentation, add action buttons, hide slides, and set automatic slide timings.
- enter, edit, move, and delete information in established databases with accuracy.
- sort, index, and search databases, create custom forms and reports, link tables, and import/export information.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All Business Department majors must have a computer that meets minimum system requirements. Contact the department or academic advisor for details.
3. All courses must be taken for a letter grade, and must be completed with a grade of “C-” or better to meet program requirements. See course listings for prerequisites.
4. Students must place at least into WR 121 and MTH 065, or take classes to reach these levels before enrolling in program core courses. WR 121 and MTH 065 must be taken for a letter grade, and must be completed with a grade of “C-” or better to meet program requirements.
5. Before enrolling in BT 120 MS WORD for Business or BT 123 MS EXCEL for Business, students are expected to have a basic knowledge of the Windows operating system and the ability to type 30 words per minute accurately and key 130-132 strokes per minute on an electronic calculator or numeric keypad. The Business Department offers free placement tests to assist students in determining their skill levels. Additional testing information and schedule details are available at: lanec.edu/business/testing/keyboarding-skill-competency-recommendations.
6. The AOP program has graded keyboarding skill levels built into several courses. For details: lanec.edu/business/testing/keyboarding-skill-competency-recommendations.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT 120 MS WORD for Business</td>
<td>3</td>
</tr>
<tr>
<td>BT 122 MS POWERPOINT for Business</td>
<td>3</td>
</tr>
<tr>
<td>BT 123 MS EXCEL for Business</td>
<td>4</td>
</tr>
<tr>
<td>BT 124 MS ACCESS for Business</td>
<td></td>
</tr>
<tr>
<td>BT 220 MS WORD for Business – Expert</td>
<td>3</td>
</tr>
<tr>
<td>BT 223 MS EXCEL for Business – Expert</td>
<td>4</td>
</tr>
<tr>
<td>BT 228 Integrated Office Applications</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

Small Business Ownership

Career Pathway Certificate of Completion

Purpose This Career Pathway Certificate is designed for individuals who may want to own and operate a business in the near term or future. This includes, but is not limited to, trade and professional students, community members and former graduates with skills that are marketable in the business environment;
individuals with skill sets that are commonly delivered in a “freelancer” or independent contractor capacity; and service providers, small retailers and food service providers that may potentially organize as a business.

Learning Outcomes The graduate of the Small Business Ownership Certificate of Completion will be able to:

- understand his or her motivations and the reality of owning a small business, and understand the legal implications of being a business owner.
- determine the appropriate type of business entity for various business endeavors, and understand, outline and evaluate the components of a business plan.
- use cell, row and column, and worksheet formatting techniques to create professional-looking spreadsheets for analyzing business decisions.
- use sophisticated Excel functions to perform sensitivity analysis to solve business problems.
- understand the role of accounting in planning, operating, and reporting an organization’s activities and management’s fiduciary responsibility to safeguard assets and be able to discuss the adequacy of internal controls.
- recognize how the major elements of the marketing process apply to small business marketing situations.
- design and utilize QuickBooks as a tool to efficiently meet an organizations accounting and tax compliance responsibilities.
- understand the link between accounting data and the underlying business reality, and use the accounting equation for analyzing business transactions and creating financial statements.
- understand the historical role and evolving trends in small business including: transitions to paperless environments, globalization, role of e-commerce, and sustainability.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>BA 101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BT 123</td>
<td>MS EXCEL for Business</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BT 165</td>
<td>Introduction to the Accounting Cycle</td>
<td>4</td>
</tr>
<tr>
<td>Winter</td>
<td>BA 223</td>
<td>Marketing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA 226</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BT 221</td>
<td>Budgeting for Managers</td>
<td>4</td>
</tr>
<tr>
<td>Spring</td>
<td>BA 206</td>
<td>Management Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BA 250</td>
<td>Small Business Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BT 163</td>
<td>QuickBooks</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

Auto Body and Fender Technology

Offered by the Advanced Technology Division
541.463.5380

Two-Year Associate of Applied Science Degree

Auto Collision Option

Auto Paint Option

Two-Year Certificate of Completion

Purpose To train technicians in the latest paint and collision technology, and provide substantial practical experience essential to becoming proficient in this industry, for careers in car dealerships, independent body and paint shops, heavy-duty truck shops, or with jobbers selling paint and collision equipment and materials.

Auto Collision Option prepares students for specialization in the auto collision industry, for careers in auto dealerships, custom repair shops, independent body shops, motor home manufacturing, employment with collision jobbers, auto collision repair estimators, and auto collision manufacturers.

Auto Paint Option prepares students for specialization in the auto paint industry, for careers in auto dealerships, custom paint shops, independent paint shops, heavy-duty truck shops, the motor home industry, and with paint jobbers and paint equipment manufacturers.

Learning Outcomes The student who successfully completes all Auto Body and Fender AAS program requirements will:

- adhere to OSHA and industry safety standards.
- effectively use the latest collision repair equipment as well as refinishing procedures.
- repair and refinish automobile bodies to industry standards.
- access library, computing, and communications services and obtain information and data from regional and national networks.
- interpret the concepts of a problem-solving task and translate them into mathematical equations.

Job Openings Projected through 2020

Lane County openings - 6 annually
Statewide openings - 75 annually

Wages
Lane County average hourly - $17.91; average annual - $37,247
Oregon average hourly - $19.55; average annual - $40,662

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident Tuition and Student Fees</td>
<td>$9,777</td>
</tr>
<tr>
<td>Differential Fees</td>
<td>$3,047</td>
</tr>
<tr>
<td>Other Course/Program Costs</td>
<td>$1,734</td>
</tr>
<tr>
<td>Tools</td>
<td>$1,000</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$600</td>
</tr>
<tr>
<td>Total</td>
<td>$16,158</td>
</tr>
</tbody>
</table>

This is the total of all the differential fees attached to Auto Body and Fender Technology courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Licensing or Other Certification Exams Required Completion of this program may substitute for one year of the two years of work experience required for taking written exams for ASE certification.

Prerequisites Minimum placement score of 68 in Reading, OR completion of RD 080, OR RD 087 AND EL115, OR prior college. A high school diploma or equivalent is recommended for all applicants to this program.

Admission Information See advtech/AT/admissionAT.htm or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Auto Body and Fender Co-op Coordinator and with instructor consent, a maximum of 18 Co-op credits in AB 280 may be earned in lieu
of required Auto Body and Fender course credits. Contact Mary Clemons, Auto Body Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemons@m ovar.edu

Course Requirements
1. All AB courses and MTH 060 must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
2. WR 115W and the PE/Health requirement must be passed with a Pass or “C-” or better to fulfill program requirements.
3. See course descriptions for prerequisite information.
4. For choices in Foundational Skills and Discipline Studies, see AAS degree description, page 44.

Auto Collision Option
Two-Year Associate of Applied Science Degree

In addition to the outcomes for Auto Body and Fender, the student who successfully completes all Auto Collision Option program requirements will:

• effectively use state-of-the-art measuring and collision repair equipment.
• demonstrate a thorough knowledge of advances in technology in auto collision.
• enter the workforce with substantial practical experience in collision repair.
• repair and reconstruct automobile bodies to industry standards.

Course Requirements
1. All Auto Body Courses and MTH 060 must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
2. WR 115W and the PE/Health requirement must be passed with a “C-” or better to fulfill program requirements.
3. See course descriptions for prerequisite information. For choices in Foundational Skills and Discipline Studies, see AAS degree description, page 44.

First Year
Fall
AB 133 Beginning Auto Collision ........................................... 6
AB 134 Paint and Collision ...................................................... 6
MTH 060 Beginning Algebra or higher mathematics .................... 4
Total Credits 16

Winter
AB 133 Beginning Auto Collision ........................................... 6
AB 134 Paint and Collision ...................................................... 6
EL 115 Effective Learning ...................................................... 3
Art elective ........................................................................ 2
Total Credits 17

Spring
AB 134 Paint and Collision ...................................................... 6
AB 261 Intermediate Auto Collision ......................................... 6
CS 120 Concepts of Computing: Information Processing or higher computer science ........................................... 4
Total Credits 16

Second Year
Fall
AB 261 Intermediate Auto Collision ......................................... 9
AB 263 Advanced Auto Collision ............................................. 3
MTH 085 Applied Geometry for Technicians or higher mathematics ........................................... 4
WR 115W Introduction to College Writing: Workplace Emphasis or higher writing ........................................... 3
Total Credits 19

Winter
AB 262 Advanced Auto Paint ............................................... 12
PE/Health requirement ......................................................... 3

Auto Paint Option
Two-Year Associate of Applied Science Degree

In addition to the outcomes for Auto Body and Fender, the student who successfully completes all Auto Paint Option program requirements will:

• demonstrate thorough knowledge of advances in technology in auto paint.
• effectively use state-of-the-art equipment and materials as well as refinishing procedures.
• enter the workforce with substantial practical experience.

Course Requirements
1. All AB Courses and MTH 060 must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
2. WR 115W and the PE/Health requirement must be passed with a “C-” or better to fulfill program requirements.
3. See course descriptions for prerequisite information. For choices in Foundational Skills and Discipline Studies, see AAS degree description, page 44.

First Year
Fall
AB 132 Beginning Auto Paint ............................................... 6
AB 134 Paint and Collision ...................................................... 6
MTH 060 Beginning Algebra or higher mathematics .................... 4
Total Credits 16

Winter
AB 132 Beginning Auto Paint ............................................... 6
AB 134 Paint and Collision ...................................................... 6
EL 115 Effective Learning ...................................................... 3
Art elective ........................................................................ 2
Total Credits 17

Spring
AB 134 Paint and Collision ...................................................... 6
AB 260 Intermediate Auto Paint ............................................. 6
CS 120 Concepts of Computing: Information Processing or higher computer science ........................................... 4
Total Credits 16

Second Year
Fall
AB 260 Intermediate Auto Paint ............................................. 9
AB 262 Advanced Auto Paint ............................................... 3
MTH 085 Applied Geometry for Technicians or higher mathematics ........................................... 4
WR 115W Introduction to College Writing: Workplace Emphasis or higher writing ........................................... 3
Total Credits 19

Winter
AB 262 Advanced Auto Paint ............................................... 12
PE/Health requirement ......................................................... 3
Two students completed this certificate in academic year 2011-12.

Technology 2-year Certificate?
summary/49-3022.00

Automotive Glass Installers and Repairers
onetonline.org/link/

Or check on these O*Net Related Occupations:
onetonline.org/link/summary/49-3021.00

Automotive Body and Related Repairers
onetonline.org/link/summary/49-3023.00

How many students complete the Auto Body and Fender Technology 2-year Certificate?
Two students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

How many jobs are forecast in this occupation between 2010-20?
Statewide: 75 positions

What wages are forecast for this occupation?
Lane County average hourly - $17.91; average annual - $37,247
Oregon average hourly - $19.55; average annual - $40,662

Gainful Employment Disclosure

Standard Occupational Classification: 49-3021.00
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Automotive Body and Related Repairers
onetonline.org/link/summary/49-3021.00
Or check on these O*Net Related Occupations:
Automotive Glass Installers and Repairers
onetonline.org/link/summary/49-3022.00

How much will the program cost?
Institutional financing: Not disclosed
Federal Loans: Not disclosed
MTH 060 Beginning Algebra
MTH 085 Applied Geometry for Technicians or higher mathematics

What’s included?
Program Costs: lanecc.edu/advtech/program-costs

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans: Not disclosed
Institutional financing: Not disclosed
(Fee for reopening will be the same as for last year.

Course Requirements
1. All Auto Body and MTH courses must be taken for a letter grade, not P/NP, and must be passed with a "C-" or better to fulfill program requirements.

Two-Year Certificate of Completion

Learning Outcomes The student who successfully completes all Auto Body and Fender 2-year certificate program requirements will:
• adhere to OSHA and industry safety standards.
• effectively use the latest collision repair equipment as well as refinishing procedures.
• repair and refinish automobile bodies to industry standards.
• access library, computing, and communications services and obtain information and data from regional and national networks.
• interpret the concepts of a problem-solving task and translate them into mathematical equations.

What was the on-time graduation rate for these students?
Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

What was the on-time graduation rate for these students?
Lane County: 6 positions
Statewide: 75 positions

What wages are forecast for this occupation?
Lane County average hourly - $17.91; average annual - $37,247
Oregon average hourly - $19.55; average annual - $40,662

How much will the program cost?
Institutional financing: Not disclosed
Federal Loans: Not disclosed
MTH 060 Beginning Algebra
MTH 085 Applied Geometry for Technicians or higher mathematics

What's included?
Program Costs: lanecc.edu/advtech/program-costs

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans: Not disclosed
Institutional financing: Not disclosed
(Fee for reopening will be the same as for last year.

Course Requirements
1. All Auto Body and MTH courses must be taken for a letter grade, not P/NP, and must be passed with a "C-" or better to fulfill program requirements.
Automotive Technology

Job Openings Projected through 2020
Lane County openings - 22 annually
Statewide openings - 200 annually

Wages
Lane County average hourly - $19.76; average annual - $41,101
Oregon average hourly - $20.25; average annual - $42,123

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

- Resident Tuition and Student Fees........................................ $9,893
- Differential Fees*............................................................. $2,393
- Other Course/Program Costs............................................... $576
- Tools.............................................................................. $1,500
- Books and supplies............................................................ $1,100

Total Estimate $15,462

* This is the total of all the differential fees attached to Automotive Technology courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Program Certification National Automotive Technicians Education Foundation, a nonprofit foundation within the National Institute for Automotive Service Excellence.

Prerequisites Minimum placement score of 68 in Reading, OR completion of RD 080, OR RD 087 AND EL115, OR prior college. A high school diploma or equivalent is recommended for all applicants to this program.

Admission Information See lanecc.edu/advtech/at/admission-information or contact the Advanced Technology Division, AdvTech Programs@lanecc.edu

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Automotive Technology Co-op Coordinator and with instructor consent, a maximum of 18 Co-op credits in AM 280 may be earned in lieu of required Automotive Technology course credits. Contact Marv Clemons, Automotive Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemons@lanecc.edu

Course Requirements
1. All AM and MTH courses must be taken for a letter grade, not P/ NP, and must be passed with a “C-” or better to fulfill program requirements.

2. WR 115W and the PE/Health requirement must be passed with a “C-” or better to fulfill program requirements.

3. See course descriptions for prerequisite information.

4. For choices in Foundational Skills and Discipline Studies, see AAS degree description, page 44.

Two-Year Associate of Applied Science Degree

First Year

Fall
- AM 145 Engine Repair .................................................. 12
- MTH 085 Applied Geometry for Technicians or higher mathematics................................................. 4

Total Credits 16

Winter
- AM 149 Manual Drive Trains and Axles ......................... 6
- AM 147 Suspension and Steering ................................ 6
- WLD 121 Shielded Metal Arc Welding 1 ....................... 4
- PE/Health requirement ................................................. 3

Total Credits 19

Spring
- AM 242 Automatic Transmissions/Transaxles ............... 12
- WR 115W Introduction to College Writing: Workplace Emphasis or higher writing........................................... 3

Total Credits 15

Second Year

Fall
- AM 243 Electrical and Electronic Systems ..................... 12
- CS 120 Concepts of Computing: Information Processing or higher computer science.......................... 4
- Choice of:........................................................................ 4
- Science or Computer Science course
- ET 129 Electrical Theory 1 ET129M Electrical Theory 1: Non ET Majors

Total Credits 20

Winter
- AM 244 Engine Performance ......................................... 12
- CG 203 Human Relations at Work ................................ 3
- Choice of:........................................................................ 4
- SP 100 Basic Communications
- SP 105 Listening and Critical Thinking
- SP 218 Interpersonal Communications

Total Credits 19

Spring
- AM 143 Brakes ............................................................ 8
- AM 245 Introduction to Hybrid Electric Vehicles (optional elective) ....................................................... 4
- AM 246 Heating and Air Conditioning .......................... 4
- AM 280 Co-op Ed: Automotive ..................................... 3

Total Credits 19

Automotive Technology

Two-Year Certificate of Completion

Learning Outcomes The graduate of the Associate of Applied Science degree or the Two-Year Certificate of Completion will:

- use automotive service resources to complete lab projects and become familiar with computer accessed information, internet accessed information and information available in print related to automotive repair.
- be able to perform computations for gear ratios, engine displacement, electrical circuits, power output, vehicle alignment angles, conversion between the metric system and standard system, and use of precision measuring tools.
- diagnose and repair current vehicles using advanced diagnostic tools and equipment.

Academic Advising Online

Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Institutional financing ............................................................ $621
Federal Loans ......................................................................... $7,042
completed the program in 2012?
What is the median loan debt incurred by students who
What’s included?
Total Estimate $16,226
On-Campus room and board............................................. Not offered
Books, supplies, program costs .............................................. $3,125
Resident tuition and fees ........................................................ $13,101
Oregon average hourly - $20.25; average annual - $42,123
Lane County average hourly - $19.76; average annual - $41,101
How much will the program cost?
What wages are forecast for this occupation?
Oregon average hourly - $26.60; average annual - $55,316
Lane County average hourly - $25.73; average annual - $53,512
Wages
Oregon average hourly - $26.60; average annual - $55,316
Costs (Estimate based on 2012 tuition and fees. Consult Lane’s
website for updated tuition.)
Gainful Employment Disclosure
Standard Occupational Classification: 49-3023.01
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Automotive Master Mechanics
onetonline.org/link/summary/49-3023.01
Or check on these O*Net Related Occupations:
Automotive Specialty Technicians onetonline.org/link/
summary/49-3023.02
How many students complete the Automotive Technology 2-year Certificate?
Ten students completed this certificate in academic year 2011-12.
What was the on-time graduation rate for these students?
Lane Community College is committed to protecting student privacy
and does not publish this rate for ten or fewer graduates.
How many jobs are forecast in this occupation between 2010-20?
Lane County: 22 positions
Statewide: 200 positions
What wages are forecast for this occupation?
Lane County average hourly - $19.76; average annual - $41,101
Oregon average hourly - $20.25; average annual - $42,123
How much will the program cost?
(Estimates based on 2012-13 data for full-time students. Students
attending part-time will incur additional term fees. Consult Lane’s
website for updated tuition and fees.)
Resident tuition and fees ........................................................ $13,101
Books, supplies, program costs .............................................. $3,125
On-Campus room and board............................................. Not offered
Total Estimate $16,226
What’s included?
Program Costs: lanec.edu/esfs/credit-fees-and-expenses
What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans ......................................................................... $7,042
Institutional financing............................................................. $621
Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Automotive Technology Co-op Coordinator and with instructor consent, a maximum of 18 Co-op credits in AM 280 may be earned in lieu of required Automotive Technology course credits. Contact Marv Clemons, Automotive Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemonsM@lanec.edu
Course Requirements
1. All AM and MTH courses must be completed with a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
2. WR 115W and the PE/Health courses must be completed with a Pass or “C-” or better to fulfill program requirements.
3. See course descriptions for prerequisite information.

Two-Year Certificate of Completion

First Year
Fall
AM 145 Engine Repair ......................................................... 12
MTH 085 Applied Geometry for Technicians or higher mathematics .............................................. 4
Total Credits 16

Winter
AM 149 Manual Drive Trains and Axles ............................... 6
AM 147 Suspension and Steering .......................................... 6
WLD 121 Shielded Metal Arc Welding ................................. 4
Total Credits 16

Spring
AM 242 Automatic Transmissions/Transaxles ..................... 12
PE/Health elective ............................................................. 3
Total Credits 15

Second Year
Fall
AM 243 Electrical and Electronic Systems ......................... 12
WR 115W Introduction to College Writing: Workplace Emphasis or higher writing .............................................. 3
Total Credits 15

Winter
AM 244 Engine Performance ............................................... 12
CG 203 Human Relations at Work ...................................... 3
Total Credits 15

Spring
AM 143 Brakes .................................................................. 8
AM 245 Introduction to Hybrid Electric Vehicles (optional elective) .............................................. 4
AM 246 Heating and Air Conditioning .................................. 4
AM 280 Co-op Ed: Automotive ............................................ 3
Total Credits 19

Aviation Maintenance Technician
Offered by the Lane Aviation Academy, 541.463.4195
Two-Year Associate of Applied Science Degree
Two-Year Certificate of Completion
Purpose To prepare technicians to repair and maintain the operating condition of aircraft, and qualify for Federal Aviation Administration (FAA) certification exams (written, oral and practical) for the airframe and powerplant airman’s certificate.
Learning Outcomes The graduate will:
• repair and maintain the operating condition of aircraft.
• pass the FAA written, oral and practical exams for licensing.
• demonstrate and use industry safety standards.
• access library, computing, and communications services and obtain information and data from regional, national, and international networks.
• interpret the concepts of a problem-solving task and translate them into mathematics.
Job Openings Projected through 2020
Lane County openings - 1 annually
Statewide openings - 56 annually
Wages
Lane County average hourly - $25.73; average annual - $53,512
Oregon average hourly - $26.60; average annual - $55,316
Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
Resident Tuition and Student Fees........................................ $10,130
Other Course/Program Costs................................................. $1,380
Tools...................................................................................... $1,000
Books and supplies............................................................... $500

Total Estimate $13,010

Aviation Maintenance Technician course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Admission Information Contact Advanced Technology Division, AdvTechPrograms@lanecc.edu

Prerequisites Minimum placement score of 68 in Reading, completion of RD 080 or RD 087 and EL 115, or prior college. A high school diploma or equivalent is recommended for all applicants to this program. Procedures for crediting and guidelines for the determination of documented military or field experience are available through application with the FAA liaison.

Program Endorsement The program is approved under Part 147 of the Federal Aviation Regulations of the Federal Aviation Administration.

Licensing Part 147 FAA oral, practical, and written certification exams are required.

Cooperative Education Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Aviation Maintenance Co-op Coordinator and as approved by the FAA Liaison and Return to Service instructor, a maximum of six Co-op credits in AV 280 may be authorized in lieu of the final Return to Service course. Co-op may be taken summer term. Contact Marv Clemons, Aviation Maintenance Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemonsm@lanecc.edu

Course Requirements
1. See course descriptions for prerequisite and corequisite information.
2. All AV and MTH courses must be taken for a letter grade, not P/ NP, and must be passed with a "C-" or better to fulfill program requirements.
3. WR and PE/Health requirement must be passed with a Pass or "C-" or better to fulfill program requirements.
4. MTH 065 or MTH 070 or higher mathematics may substitute for MTH 075.
5. Foundational Skills (except MTH) and Discipline Studies are not required for two-year FAA Airframe and Powerplant airman’s certificate exams.
6. For choices in Foundational Skills and Discipline Studies, see AAS degree description, page 44.

Two-Year Associate of Applied Science Degree

Required Prior to Beginning of First Year
MTH 075 Applied Algebra for Technicians or equivalent................................................................. 4
WR 115W Introduction to College Writing: Workplace Emphasis or higher writing................... 3

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV 196 General 105</td>
<td>6</td>
<td>Fall</td>
</tr>
<tr>
<td>AV 194 General 103</td>
<td>6</td>
<td>Fall</td>
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</table>
| MTH 085 Applied Geometry for Technicians or higher mathematics | 4 | Fall
| PE/Health requirement          | 3       | Fall |
| Total Credits                  | 19      | Fall |

Winter

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AV 279 Airframe (Section 3, and 4)</td>
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<tr>
<td>AV 195 General 104</td>
<td>6</td>
</tr>
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<td>Total Credits</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AV 281 Powerplant (Section 1 and 2)</td>
<td>12</td>
</tr>
<tr>
<td>AV 279 Airframe (Section 1)</td>
<td>6</td>
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<tr>
<td>Total Credits</td>
<td>18</td>
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Fall

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>AV 281 Powerplant (Section 3 and 4)</td>
<td>12</td>
</tr>
<tr>
<td>Arts/Letters requirement</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations requirement</td>
<td>3</td>
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<tr>
<td>Total Credits</td>
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Winter

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>AV 283 Powerplant Return to Service</td>
<td>6</td>
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<tr>
<td>AV 282 Airframe Return to Service</td>
<td>6</td>
</tr>
<tr>
<td>AV 279 Airframe (Section 2)</td>
<td>6</td>
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<tr>
<td>Elective AV 280 Co-op Ed: Aviation Maintenance (optional)</td>
<td>3</td>
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<tr>
<td>Total Credits</td>
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</tr>
</tbody>
</table>

Aviation Maintenance Technician

Two-Year Certificate of Completion

Gainful Employment Disclosure

Standard Occupational Classification: 49-3011.00

Go to the Department of Labor’s O*Net website for a profile of this occupation:

Aircraft Mechanics and Service Technicians

onetonline.org/link/summary/49-3011.00

Or check on these O*Net Related Occupations:

Aircraft Structure, Surfaces, Rigging, and Systems Assemblers

onetonline.org/link/summary/51-2011.00

How many students complete the Aviation Maintenance Technician 2-year Certificate?

Six students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?

Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

How many jobs are forecast in this occupation between 2010-20?

Lane County: 1 positions
Statewide: 56 positions

What wages are forecast for this occupation?

Lane County average hourly - $25.73; average annual - $53,512
Oregon average hourly - $26.60; average annual - $55,316

How much will the program cost?

(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

Resident tuition and fees ........................................ $10,947
Books, supplies, program costs .................................. $2,643
On-Campus room and board ...................................... Not offered

Total Estimate $13,590

What’s included?

Program Costs: lanecc.edu/esfs/credit-fees-and-expenses
What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans.................................................. Not disclosed
Institutional financing........................................ Not disclosed
(For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than ten graduates.)

Course Requirements
1. See course descriptions for prerequisite and corequisite information.
2. All AV and MTH courses must be taken for a letter grade, not P/NP, and must be passed with a "C-" or better to fulfill program requirements.
3. WR requirement must be passed with a Pass or "C-" or better to fulfill program requirements.
4. MTH 065 or MTH 070 or higher mathematics may substitute for MTH 075.

Required Prior to Beginning of First Year
MTH 075 Applied Algebra for Technicians or equivalent ............................................................ 4

First Year
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AV 192 General 101</td>
<td>6</td>
</tr>
<tr>
<td>AV 193 General 102</td>
<td>6</td>
</tr>
<tr>
<td>WR 115W Introduction to College Writing: Workplace Emphasis</td>
<td>3</td>
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<tr>
<td>PE/Health elective</td>
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</table>

Total Credits 18

Second Year
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AV 196 General 105</td>
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<tr>
<td>AV 194 General 103</td>
<td>6</td>
</tr>
<tr>
<td>MTH 085 Applied Geometry for Technicians or higher mathematics</td>
<td>4</td>
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</tbody>
</table>

Total Credits 16

Winter
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV 279 Airframe (Section 3 and 4)</td>
<td>12</td>
</tr>
<tr>
<td>AV 195 General 104</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 18

Spring
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV 279 Airframe (Section 1)</td>
<td>6</td>
</tr>
<tr>
<td>SP 130 Business and Professional Speech</td>
<td>3</td>
</tr>
<tr>
<td>J 205 Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>Arts/Letters Elective (3 credits)</td>
<td>3</td>
</tr>
<tr>
<td>Any 200 level Psychology course (3 credits)</td>
<td>3</td>
</tr>
<tr>
<td>AV 179 General Aviation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

Students interested in completing the FAA Airway Science requirements for two-year institutions should:

Substitute:
WR 121 Introduction to Academic Writing for
WR 115W Introduction to College Writing: Workplace Emphasis.

and Add:
WR 227 Technical Writing

Business Assistant
Offered by the Business Department, 541.463.5221
One-Year Certificate of Completion
Purpose To train business and office assistants for a wide variety of duties. They may handle correspondence, maintain electronic and manual files, assist with financial record keeping, operate a variety of office equipment, assist customers, answer telephones, act as a receptionist, act as an accounts receivable or payable clerk, perform general office duties, and use personal computers for internet research, word processing, and financial analysis. This Certificate of Completion may fulfill the first year requirements of the Accounting and Administrative Office Professional Two-Year Associate of Applied Science degrees.

Learning Outcomes The graduate will be able to:
• organize and manage the daily business functions of an organization.
• use software including word processing, spreadsheets, databases, and presentation tools to input, manage, and interpret information to meet organizational needs.
• perform on the job in ways that reflect professional ethics, legal standards, and organizational expectations.
• create professional, accurate documents.
• anticipate and actively explore innovative solutions to technological and organizational challenges.
• provide basic training and technical support for office equipment and software systems.
• understand accounting as the “language of business.”
• engage customers and co-workers in a purposeful manner – listening to and accurately interpreting their responses within diverse cultural contexts.
• use research and analytical skills to support the activities of the organization.
• formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.
• work independently within diverse business environments, apply individual strengths and critical thinking to collaborative efforts.
• make effective presentations to internal and external audiences.
• use appropriate library and information resources to research business topics.
• apply critical thinking and analytical skills in decision-making and problem solving.
• use good keyboarding skills to prepare documents quickly and accurately according to employer standards.

Gainful Employment Disclosure
Standard Occupational Classification: 43-6014.00
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
onetonline.org/link/summary/43-6014.00
Or check on these O*Net Related Occupations:
Receptionists and Information Clerks onetonline.org/link/summary/43-4171.00
Office Clerks, General onetonline.org/link/summary/43-9061.00
How many students complete the Business Assistant 1-year Certificate?

Eighteen students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?

None completed the number in the terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to be better prepared for college level courses, affecting this narrowly defined on-time completion rate.

How many jobs are forecast in this occupation between 2010-20?

Lane County: 104 positions
Statewide: 1,248 positions

What wages are forecast for this occupation?

Lane County average hourly: $14.77; average annual: $30,736
Oregon average hourly: $1,494.00; average annual: $31,064

How much will the program cost?

(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Resident tuition and fees: $5,697
Books, supplies, program costs: $1,560
Personal Computer: $1,500

Total Estimate: $7,757

What’s included?

Program Costs: lanec.edu/esfs/credit-fees-and-expenses

What is the median loan debt incurred by students who completed the program in 2012?

Federal Loans: $3,423
Institutional financing: $59

Course Requirements

1. See course descriptions for prerequisite requirements.
2. Students must place at least into WR 121 and MTH 065, or take classes to reach these levels before enrolling in program courses.
3. WR and MTH courses must be taken for a letter grade, not P/NP, passed with a “C-” or better to meet program requirements. All other required prerequisites and courses must be taken for a letter grade, not P/NP, and be passed with grade of “C-” or better to satisfy program requirements.
4. Before enrolling in BT 120 MS WORD for Business or BT 123 MS EXCEL for Business, students are expected to have a basic knowledge of the Windows operating system and the ability to type 30 words per minute accurately and key 130-132 strokes per minute on an electronic calculator (or numeric keypad). The Business Department offers free placement tests to assist students in determining their skill levels. Additional testing information and schedule details are available at: lanec.edu/business/testing/keyboarding-skill-competency-recommendations

Required Prerequisite

BT 108 Business Proofreading and Editing ........................................ 4

Total Recommended Prerequisite Credits ........................................ 4

Note All Business Department majors must have a computer that meets minimum system requirements; contact the department or Academic Advisor for details.

Fall

BT 112 Team Building Skills .......................................................... 3
BT 120 MS WORD for Business ..................................................... 3
CS 120 Concepts of Computing: Information Processing .................. 4
WR 121 Composition: Introduction to Academic Writing .................. 4

Total Credits: 14

Winter

BA 101 Introduction to Business ..................................................... 4
BT 123 MS EXCEL for Business .................................................... 4
BT 165 Introduction to the Accounting Cycle ................................... 4
MTH 065 Elementary Algebra or higher ........................................... 4

Total Credits: 16

Spring

BA 206 Management Fundamentals ............................................... 3
BA 214 Business Communications ................................................ 4
BT 163 QuickBooks ...................................................................... 4
BT 206 Co-op Ed: Business Seminar .............................................. 2

Choice of: ..................................................................................... 4

BT 144 Administrative Procedures
BA 281 Personal Finance

Total Credits: 17

Computer Information Systems

Offered by the Computer Information Technology Department, 541.463.5221

Two-Year Associate of Applied Science Degree

(Also see the following Career Pathway Certificates of Completion: Database Specialist on page 82, Geographic Information Systems on page 120, Health Information Technology Specialist on page 82, Network Security on page 84, and Web Programming on page 86.)

Purpose Systems support workers provide technical assistance and support services to computer system users. They answer questions and resolve technology problems for work colleagues or clients in face-to-face contacts, via telephone or remote contacts, via e-mail or on support Web sites. They assist users with computer hardware, software, network connections, and operating procedures. Some systems support workers evaluate computer products, perform user needs assessments, install systems, prepare documentation, and provide training for users.

Learning Outcomes Graduates will be able to:

• use primary features of computer hardware and operating systems.
• make productive use of application and operating system software.
• read and understand operating manuals.
• assist co-workers or clients with hardware and peripheral problems.
• assist co-workers or clients with software problems.
• perform common network administrative tasks.
• monitor and troubleshoot network operation.
• monitor computer and peripheral device operation.
• test and troubleshoot computer applications and systems.
• follow computer diagnostic procedures.
• evaluate and recommend computer equipment and software.
• perform hardware installation, maintenance and common repair tasks.
• update and upgrade computer systems.
• apply standard project management techniques.
• work as a member of a team.
• use information resources for problem solving and troubleshooting.
• support computer users by troubleshooting workstation problems, assisting with needs assessment, providing end-user training and documentation, through use of help desk incident tracking software.
Job Openings Projected through 2020
Lane County openings - 47 annually
Statewide openings - 376 annually

Wages
Lane County average hourly - $21.85; average annual - $45,443
Oregon average hourly - $25.44; average annual - $52,906

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
- Resident Tuition and Student Fees: $9,104
- Books and Materials: $2,447
- Laptop Computer: $500
- CIT Lab Fees: $168
- Total Estimate: $12,219

Second Year Requirements
A personal laptop is required for second-year students in the degree program. If you receive financial aid, some of those funds may be used for this purchase. Please contact the CIT Department for options and system requirements.

Program Lead
Contact the Business and Computer Information Technology Division (BCIT), Bldg. 19, Rm. 137, 541.463.5221, BCITAdmin@lanecc.edu

Cooperative Education (Co-op)
Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Contact Gerry Meenaghan, Cooperative Education Coordinator, Bldg. 19, Rm. 231A, 541.463.5883.

Note
Students who need to take additional coursework to meet the entry prerequisites for the program should expect to spend additional terms beyond the six terms described below.

Elective Clusters
Elective clusters are intended to provide an opportunity for Systems Support majors to take additional coursework in their areas of special interest. Systems Support majors take a minimum of two elective clusters of at least three courses from among these choices. Note that some elective courses may require additional prerequisites: consult the course catalog for prerequisites. Pathways certificates are available in some elective clusters.

Recommended Program Prerequisites
- Take foundational writing courses to be prepared for WR 121 Academic Writing
- Take mathematics courses to be prepared for MTH 095 Intermediate Algebra
- Take study skills courses such as EL 115 Effective Learning to prepare for college-level coursework
- Take computer classes or self-study equivalent to CIS 101 Computer Fundamentals

Course Requirements
1. All required courses must be completed for a letter grade of “C-” or better, except MTH 095, CG 203, WR 227, AND PE/Health requirement.
2. Prerequisites are required for some courses. See course descriptions.
3. Programming sequences may not be offered Winter/Spring term. Speak to an Academic Advisor if you are interested in a specific sequence.
4. Choice of recommended speech courses:
   - SP 111 Fundamentals of Public Speaking
   - SP 130 Business and Professional Speech
   - SP 218 Interpersonal Communication
   - SP 219 Small Group Discussion
   - SP 220 Communications, Gender, and Culture

First Year

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<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>CS 179 Introduction to Computer Networks</td>
<td>4</td>
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<tr>
<td>Winter</td>
<td>ET 287 Microcomputer Hardware</td>
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<tr>
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<td>WR 121 Composition: Intro to Academic Writing</td>
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<tr>
<td></td>
<td>CIS 195 Web Authoring 1</td>
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<td>CS 133N Beginning Programming: C#</td>
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<td>CS 161C+ Computer Science 1</td>
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<td>CS 161J Computer Science 1</td>
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<tr>
<td>Fall</td>
<td>CIS 125D Software Tools 1: Databases</td>
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<td>CIS 320D Software Tools 2: Programming</td>
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<tr>
<td></td>
<td>CIS 195 Web Authoring 1</td>
<td>4</td>
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<tr>
<td></td>
<td>CS 133N Beginning Programming: Javascript</td>
<td>3-4</td>
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<td></td>
<td>CS 133P Beginning Programming: Python</td>
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<td>CS 161C+ Computer Science 1</td>
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<td></td>
<td>CS 161J Computer Science 1</td>
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<td>CS 162C+ Computer Science 2</td>
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<td>4</td>
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<td></td>
<td>CS 233N Intermediate Programming: C#</td>
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<td></td>
<td>CS 233P Intermediate Programming: Python</td>
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Second Year

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<tr>
<td>Fall</td>
<td>CIS 225 Computer End-User Support</td>
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<td>Choice of one course from Elective Cluster 1</td>
<td>3-4</td>
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<td></td>
<td>Choice of one course from Elective Cluster 2</td>
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<th>Credits</th>
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<tbody>
<tr>
<td>Winter</td>
<td>CIS 225 Computer End-User Support</td>
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<tr>
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<td>Choice of one course from Elective Cluster 1</td>
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<td>Choice of one course from Elective Cluster 2</td>
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<td>PE/Health requirement</td>
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<tr>
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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Spring</td>
<td>CIS 245 Project Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CS 280SS Coop Ed: Systems Support</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choice of one course from Elective Cluster 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Choice of one course from Elective Cluster 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
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</tbody>
</table>

Elective Clusters

Network: Windows Cluster
CS 240W Advanced Windows: Server Management
### Computer Information Systems - Health Informatics

**Offered by the Computer Information Technology Department, 541.463.5221**

#### Two-Year Associate of Applied Science Degree

**Career Pathway Certificate of Completion, Database Specialist**

**Career Pathway Certificate of Completion, Health Information Technology Specialist**

**Purpose** To educate individuals to be effective developers, users and managers of health information resources. Health Informatics is the study of how health data are collected, stored and communicated; how those data are processed into health information suitable for administrative and clinical decision making; and how computer technology, communications technology, and other information management skills can be applied to support these processes. Graduates may be employed as health information professionals by clinics and offices of health care providers, hospitals, health maintenance organizations, insurance companies, government agencies, law firms, mental health programs, community health programs, researchers, consulting firms, and information systems vendors.

### Learning Outcomes

The graduate will:

- demonstrate an understanding of, and the ability to work with, a health care information system at all stages of the information system life cycle.
- demonstrate a working knowledge of medical terminology and the health care delivery system.
- create, manage and query database systems and/or reporting systems.
- demonstrate an understanding of networking concepts with specific knowledge of issues and standards relevant to the health care industry.
- have the ability to work effectively as a member of a team in a health care setting.
- use project management tools and techniques to effectively manage work projects.
- effectively research and analyze health informatics topics and issues and produce useful information.
- connect to professional organizations and engage in experiential learning in order to enhance and build skills and knowledge important for career development.
- demonstrate an understanding of systems analysis and programming concepts and how they are used to solve problems
- use library resources for research and written tasks.
- perform advanced mathematical functions as necessary to prepare health data reports.

### OLMIS Job Openings Projected through 2020 for “Computer Specialists, all other”

Lane County openings - 14 annually  
Statewide openings - 159 annually

### Wages

<table>
<thead>
<tr>
<th>Oregon average hourly</th>
<th>Oregon average annual</th>
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<tbody>
<tr>
<td>$34.97</td>
<td>$72,735</td>
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</table>

### Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

| Resident Tuition and Student Fees | $9,464 |
| Books and Materials               | $3,250 |
| Laptop Computer                   | $1,500 |

### Academic Advising Online

Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Course Requirements

Second Year Requirements: A personal computer is required for second-year students in the degree program. If you receive financial aid, some of those funds may be used for this purchase. Please contact the CIT Department for options and system requirements.

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Contact Gerry Meenaghan, Cooperative Education Coordinator, Bldg. 19, Rm. 231A, 541.463.5883.

Program Lead: Ron Little, Bldg. 19, Rm. 156, 541.463.5464, litle@lanecc.edu

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT Lab Fees</td>
<td>$168</td>
</tr>
<tr>
<td>Total Estimate</td>
<td>$14,382</td>
</tr>
</tbody>
</table>

Computer Information Systems - Health Informatics course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Second Year Requirements

Directed Elective: consider prerequisites when choosing:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 112 Cell Biology for Health Occupations</td>
<td>4</td>
</tr>
<tr>
<td>BI 121 Intro to Human Anatomy and Physiology 1</td>
<td>4</td>
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<tr>
<td>BI 122 Intro to Human Anatomy and Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>BI 231 Human Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>BI 232 Human Anatomy and Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>BI 233 Human Anatomy and Physiology 3</td>
<td>4</td>
</tr>
<tr>
<td>CIS 275 database modeling</td>
<td>4</td>
</tr>
<tr>
<td>CIS 276 Database SQL Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS 277 Advanced Database Concepts in Oracle</td>
<td>4</td>
</tr>
<tr>
<td>CIS 277T Web Business Intelligence</td>
<td>4</td>
</tr>
<tr>
<td>CIS 278 Data Communications Concepts 2</td>
<td>4</td>
</tr>
<tr>
<td>CIS 279L Linux Network Administration</td>
<td>4</td>
</tr>
<tr>
<td>CIS 284 Network Security</td>
<td>4</td>
</tr>
<tr>
<td>CIS 288M Microsoft Network Administration</td>
<td>4</td>
</tr>
<tr>
<td>CIS 289M Microsoft Active Directory Administration</td>
<td>4</td>
</tr>
<tr>
<td>CIS 140U Introduction to Unix/Linux</td>
<td>4</td>
</tr>
<tr>
<td>CIS 189 Wireless Security</td>
<td>4</td>
</tr>
<tr>
<td>CIS 225 Computer End User Support</td>
<td>4</td>
</tr>
<tr>
<td>CIS 247 Information Analysis and Visualization</td>
<td>4</td>
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<tr>
<td>CIS 277D DB Security</td>
<td>4</td>
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<tr>
<td>CIS 277T Advanced Database Concepts in Oracle</td>
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<tr>
<td>CIS 277T Web Business Intelligence</td>
<td>4</td>
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<tr>
<td>CIS 278 Data Communications Concepts 2</td>
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<tr>
<td>CIS 279L Linux Network Administration</td>
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<td>CIS 284 Network Security</td>
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<td>CIS 288M Microsoft Network Administration</td>
<td>4</td>
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<tr>
<td>CIS 289M Microsoft Active Directory Administration</td>
<td>4</td>
</tr>
<tr>
<td>CIS 140U Introduction to Unix/Linux</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Estimate $14,382
Database Specialist

Career Pathway Certificate of Completion

Purpose To prepare technicians for entry-level positions as database specialists.

Learning Outcomes The certificate recipient will:

- design, implement, test, debug and document relational database systems using a variety of current tools and technologies.
- understand the use of database to support organizational processes.
- interpret the mathematical concepts of relational algebra and translate a database related problem into SQL logic and expressions.
- use appropriate library and information resources to research database technologies and support lifelong technical learning.

Prerequisites Students are expected to be comfortable working on a computer, including the ability to create files with a text editor and manage file folders. The courses in this Certificate of Completion are designed to be taken along with the Computer Programming, the Health Informatics, or the Computer Network Operations Associates of Applied Science degree programs offered by the CIT department. For details see the course description of each of the four required courses. Prerequisites can be waived for current IT technicians with the appropriate background.

All courses must be completed with a letter grade of “C-” or better, except BA 205, CS 179, and the Human Relations requirement, which must be completed with a “C-” or Pass grade.

Prerequisites are required for some courses. See course descriptions.

Certificate Lead Ron Little, Bldg. 19, Room 156, 541.463.5464, littler@lanecc.edu

Courses Required Credits
CIS 125D Software Tools 1: Databases ........................................ 4
CIS 244 Systems Analysis ...................................................... 4
CS 275 Database Systems and Modeling .................................... 4
CS 276 Database SQL Programming ........................................ 4

Total Credits 16

Health Information Technology Specialist

Career Pathway Certificate of Completion

Purpose Designed for, but not limited to, workers who are currently employed in healthcare or information technology and hold a college degree or have equivalent experience, this program trains graduates qualified to implement and support Electronic Health Records (EHRs), information exchange across health care providers and public health authorities, and to redesign workflows within the health care settings to gain the quality and efficiency benefits of EHRs. The classes provide a basic knowledge of the skills required to implement and support EHRs in the healthcare environment.

Learning Outcomes The certificate recipient will:

- design electronic health records workflows within health care settings.
- implement and support electronic health records.
- implement and support information exchange across health care providers and public health authorities.
- use appropriate library and information resources to research database technologies and support lifelong technical learning.

Prerequisites Students are expected to be comfortable working on a computer, including the ability to create files with a text editor and manage file folders. The courses in this Certificate of Completion are designed to be taken along with the Health Informatics Associates of Applied Science degree offered by the CIT department. For details see the course description of each of the required courses. Prerequisites can be waived for current IT technicians with the appropriate background.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.

2. All courses must be completed with a letter grade of “C-” or better, except BA 205, CS 179, and the Human Relations requirement, which must be completed with a “C-” or Pass grade.

Certificate Lead Larry Scott, Bldg. 19, Rm. 140, 541.463.5458, scottl@lanecc.edu
Computer Network Operations

Offered by the Computer Information Technology Department, 541.463.5221

Two-Year Associate of Applied Science Degree

Career Pathway Certificate of Completion, Computer Network Monitoring and Management

Career Pathway Certificate of Completion, Computer Network Security

Purpose to train entry-level network support technicians and more advanced network administrators in specific computer networking skills and general troubleshooting of hardware and software related problems.

Learning Outcomes The graduate will:

• install and configure workstations, servers and networked printers.
• install and configure internetworking devices such as switches and routers.
• install and configure a variety of network operating systems and provide for interoperability between them.
• administer an organization's computer network infrastructure.
• understand network security issues and use appropriate tools to insure network integrity.
• understand the critical features of wireless networking.
• understand fundamental networking theory, terminology, and industry recognized standards.
• interpret the concepts of a computer network related problem-solving task.
• use appropriate library and information resources to research network management issues and tools and support lifelong technical learning.

Job Openings Projected through 2020

Lane County openings - 12 annually
Statewide openings - 127 annually

Wages
Lane County average hourly - $31.59; average annual - $65,696
Oregon average hourly - $33.00; average annual - $68,645

Costs (Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition.)

Resident Tuition and Student Fees.................................................. $9,374
Books and Materials........................................................................ $2,447
Laptop Computer............................................................................. $1,500
CIT Lab Fees.................................................................................. $168

Total Estimate $13,489

Computer Network Operations course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Second Year Requirements A personal laptop is required for second-year students in the degree program. If you receive financial aid, some of those funds may be used for this purchase. Please contact the CIT Department for options and system requirements.

Prerequisites Students must qualify for WR 121, either by placement testing or completing prerequisite courses and MTH 095. Each student should consult with a counselor or advisor to plan a program of study.

Computer Network Security The curriculum for the Computer Network Operations degree and the Computer Network Security Certificate may be taken during the same two-year period to qualify for both completion documents. This is accomplished by taking the certificate's security courses as the degree's second-year electives. See the following Computer Network Security Certificate of Completion description or contact the certificate coordinator Joseph Colton, 541.463.5734, coltonj@lanecc.edu

Cooperative Education (Co-op) Co-op is a required and important part of the Computer Network Operations program. It provides relevant field experience that integrates theory and practice while providing opportunities to develop skills, explore career options, and network with professionals and employers in the computer network field. Contact Gerry Meenaghan, Cooperative Education Coordinator, Bldg. 19, Rm. 231A, 541.463.5883.

Program Lead Gary Bricher, Bldg. 19, Room 148, 541.463.5294, brichery@lanecc.edu

Note Students completing the curriculum for the Computer Network Operations degree also qualify for the Computer Network Monitoring and Management certificate. In addition, students taking CS 188 Wireless Networking, CS 285 Operating System Hardening, and CS 286 Firewalls and VPNs as their second-year electives would qualify for the Computer Network Security certificate. Also, students interested in the Web Programming certificate can take CS 295P and CS 296P instead of CS 133P and CS 233P to qualify for the certificate.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.

2. All courses must be completed with a letter grade of “C-” or better, except MTH 095, CS 206A, CS 206B, WR 227, the PE/Health requirement, and the Speech elective, which must be completed with a “C-” or better or Pass grade.

3. CS/CIS/GIS Electives must be completed with a letter grade.

4. The Computer Network Operations degree contains three second-year CS/CIS/GIS electives. Students may want to consider using CS/CIS/GIS electives to take a sequence of courses from the Network Security certificate curriculum, or from one of the other degree or certificate programs, such as, Computer Programming, Computer Simulation and Game Development, Geographic Information Systems, Computer Information Systems – Health Informatics or Computer Science transfer. For more specific information about electives, students should contact the program academic advisor or program counselor to help determine what elective courses best fit their goals.

5. List of approved speech electives:
   SP 100 Basic Communication
   SP 111 Fundamentals of Public Speaking
   SP 112 Persuasive Speech
   SP 130 Business and Professional Speech
   SP 219 Small Group Discussion
6. Students planning to pursue a bachelor’s degree in Computer Science are advised to also complete the following courses in mathematics: MTH 111 College Algebra and MTH 231, 232, 233 Discrete Mathematics 1, 2, 3.

7. Instead of CS 132P and CS 233P the student may take any two required programming courses that are a sequence from one of the other CIT degree programs.

**Two-Year Associate of Applied Science Degree**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 100 Computing Careers Exploration</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CS 179 Introduction to Computer Networks</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CIS 140W Intro to Operating Systems: Windows Clients...</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MTH 095 Intermediate Algebra or higher</td>
<td>5</td>
<td></td>
</tr>
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<td><strong>Total Credits</strong></td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Winter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 206A Coop Ed: Computer Networks Seminar 1</td>
<td>1</td>
</tr>
<tr>
<td>CIS 102 Problem Solving with Computers</td>
<td>4</td>
</tr>
<tr>
<td>CIS 125D Software Tools 1: Databases</td>
<td>4</td>
</tr>
<tr>
<td>CS 279 Essentials of Network Administration</td>
<td>4</td>
</tr>
<tr>
<td>ET 287 Microcomputer Hardware</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS133P Beginning Programming: Python</td>
<td>4</td>
</tr>
<tr>
<td>CS 240W Advanced Windows: Server Management</td>
<td>4</td>
</tr>
<tr>
<td>CG 203 Human Relations at Work</td>
<td>3</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS233P Intermediate Programming: Python</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CIS 140U Introduction to Unix/Linux</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CS 284 Network Security Fundamentals</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CS/CIS/GIS Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Winter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 206B Coop Ed: Computer Networks Seminar 2</td>
<td>1</td>
</tr>
<tr>
<td>CS 289 Cisco Router and Switch Administration</td>
<td>4</td>
</tr>
<tr>
<td>CIS 225 Computer End-User Support</td>
<td>4</td>
</tr>
<tr>
<td>CS 240U Advanced Unix/Linux: Server Management</td>
<td>4</td>
</tr>
<tr>
<td>CS/CIS/GIS Elective</td>
<td>4</td>
</tr>
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<td><strong>Total Credits</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CS 280CN Coop Ed: Computer Network Operations</td>
<td>3</td>
</tr>
<tr>
<td>CS 288 Network Monitoring and Management</td>
<td>4</td>
</tr>
<tr>
<td>PE/Health requirement</td>
<td>3</td>
</tr>
<tr>
<td>WR 227 Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>CS/CIS/GIS Electives or Speech Elective</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Computer Network Monitoring and Management**

**Career Pathway Certificate of Completion**

**Purpose** Prepare graduates to manage and monitor modern network operating systems and the services provided by current, industry-standard platforms, including troubleshooting and proactive management for growth.

**Learning Outcomes** The certificate recipient will:
- understand the performance fundamentals required to help safeguard computer networks.
- implement wireless network security protections.
- identify and counteract attacks on workstations, servers, and other networking devices.
- identify vulnerabilities, discuss their resolutions, and generate vulnerability reports.
- install and utilize various security industry accepted tools.
- install and configure firewalls and VPNs.
- troubleshoot security issues and implement and test resolutions.

**Prerequisites** The courses in this Certificate of Completion are designed to be taken with the Computer Network Operations Associate of Applied Science degree program offered by the CIT department. There are specific prerequisites for each of the four courses required for this certificate. Each of the prerequisites is a requirement in the Network Operations degree. For details see the course description of each of the four required courses. Prerequisites can be waived for current IT network technicians with the appropriate background.

**Certificate Lead** Gary Bricher, Bldg. 19, Room 148, 541.463.5294, bricherg@lanecc.edu

**Course Requirements** All courses must be completed with a letter grade of "C-" or better.

<table>
<thead>
<tr>
<th>Courses required</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 240U Advanced Unix/Linux Server Management</td>
<td>4</td>
</tr>
<tr>
<td>CS 289 Cisco Router and Switch Administration</td>
<td>4</td>
</tr>
<tr>
<td>CS 240W Advanced Windows: Server Management</td>
<td>4</td>
</tr>
<tr>
<td>CS 288 Network Monitoring and Management</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>
Certificate Lead: Joseph Colton, Bldg. 19, Room 147, 541.463.5734, coltonj@lanecc.edu

Course Requirements

All courses must be completed with a letter grade of "C-" or better.

Courses required

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 188 Wireless Networking</td>
<td>4</td>
</tr>
<tr>
<td>CS 284 Network Security Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CS 285 Operating System Hardening</td>
<td>4</td>
</tr>
<tr>
<td>CS 286 Firewalls and VPNs</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 16

Computer Programming

Offered by the Computer Information Technology Department, 541.463.5221

Two-Year Associate of Applied Science Degree, Computer Programming

Career Pathway Certificate of Completion, Web Programming

(See also Career Pathway Certificate of Completion, Database Specialist on page 82 and Geographic Information Systems on page 120 and One-year Certificate, Web Design on page 142)

Purpose To prepare technicians for entry-level positions as software developers.

Learning Outcomes The graduate will:

- design, implement, test, debug and document web based computer programs using a variety of current tools and technologies.
- design, implement, test, debug and document at least one other type of computer program such as: game program, database program, object-oriented program.
- understand the relationship between computer programs and organizational processes.
- interpret the mathematical concepts of a programming related problem-solving task and translate them into programming logic and expressions.
- use appropriate library and information resources to research programming tools and technologies and support lifelong technical learning.

Job Openings Projected through 2020

Lane County openings - 11 annually
Statewide openings - 158 annually

Wages

Lane County average hourly - $32.40; average annual - $67,389
Oregon average hourly - $35.15; average annual - $73,109

Costs (Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident Tuition and Student Fees</td>
<td>$9,374</td>
</tr>
<tr>
<td>Books and Materials</td>
<td>$3,118</td>
</tr>
<tr>
<td>Laptop computer</td>
<td>$1,500</td>
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<tr>
<td>CIT Lab Fees</td>
<td>$168</td>
</tr>
</tbody>
</table>

Total Estimate $14,160

Computer Programming course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Second Year Requirements A personal laptop is required for second-year students in the degree program. If you receive financial aid, some of those funds may be used for this purchase.

Please contact the CIT Department for options and system requirements.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All courses must be completed with a letter grade of "C-" or better, except CG 203, CS 276, CS296N, MTH 095, WR 121, WR 227, and Speech elective, which may be completed with a "D-" or Pass grade.
3. For more specific information about the Fall/Winter/Spring CS/CIS/GIS elective sequences please contact the Program Academic Advisor or the Program Counselor to help determine which elective sequence best fits your goals. Programming majors are strongly advised to take CS 295P Web Development 1: PHP and CS 296P Web Development 2: PHP as electives.
4. List of approved speech electives:
   - SP 100 Basic Communication
   - SP 111 Fundamentals of Public Speaking
   - SP 112 Persuasive Speech
   - SP 130 Business and Professional Speech
   - SP 219 Small Group Discussion

Students who complete the Computer Programming Degree will have completed all of the coursework to earn the Database Specialist Career Pathway Certificate. See Computer Information Systems - Health Informatics AAS listing for details.

Cooperative Education (Co-op) Co-op is a required and important part of the Computer Programming Degree program. It provides relevant field experience that integrates theory and practice while providing opportunities to develop skills, explore career options, and network with professionals and employers in the computer programming field. Contact Gerry Meenaghan, Cooperative Education Coordinator, Bldg. 19, Rm. 231A, 541.463.5883.

Program Lead: Mari Good, Bldg. 19, Rm. 158, 541.463.5838, goodm@lanecc.edu

Computer Programming

Two-Year Associate of Applied Science Degree

Prerequisites Students must qualify for WR 121, either by placement testing or completing prerequisite courses, and by the third term, qualify to begin MTH 095. Each student should consult with a counselor or advisor to plan a program of study.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIS 100 Computing Careers Exploration</td>
<td>2</td>
</tr>
<tr>
<td>CIS 102 Problem Solving with Computers</td>
<td>4</td>
</tr>
<tr>
<td>CIS 140W Intro to Operating Systems: Windows Client/Server</td>
<td>4</td>
</tr>
<tr>
<td>CIS 195 Web Authoring I</td>
<td>3</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 17

Academic Advising Online

Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Web Programming

Career Pathway Certificate of Completion

Purpose To prepare technicians for entry-level positions as web programmers.

Learning Outcomes The certificate recipient will:

• use appropriate library and information resources to research simulation and game development industries or to transfer to a four-year school for additional education.
• use appropriate library and information resources to research simulation and game development issues, programming tools and technologies.

Prerequisites Students are expected to be comfortable working on a computer, including the ability to create files with a text editor and manage file folders.

Program Lead Mari Good, Bldg. 19, Rm. 158, 541.463.5838, goodm@lanecc.edu

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All courses must be completed with a letter grade of “C-” or better.
Computer Game Programming in C++

Career Pathway Certificate of Completion

Purpose To provide students with the knowledge and skills required to program in C++, specifically focused on simulation and game programming.

Learning Outcomes The certificate recipient will:

• understand the syntax and semantics of C++ programming.
• demonstrate the ability to solve programming projects using an object-oriented methodology.
• understand and use common data structures to solve programming problems.
• design, develop, test, debug, and document solutions to simulation and computer game problems using a variety of current tools.
• demonstrate the knowledge of common software engineering methodologies.
• develop a portfolio of programs working in a team-oriented environment.

Certificate Lead Jim Bailey, Bldg. 19, Rm. 146, 541.463.3148, baileyj@lanecc.edu

Prerequisites Students are expected to be comfortable working on a computer, including the ability to create files with a text editor and manage file folders. CS 260 has a prerequisite of MTH 111.

Courses Required

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 161C+</td>
<td>Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td>CS 162C+</td>
<td>Computer Science 2</td>
<td>4</td>
</tr>
<tr>
<td>CS 260</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 234G</td>
<td>Advanced C++ Programming for Games</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 16

Computer Specialist

Offered by the Computer Information Technology Department, 541.463.5221

One-Year Certificate of Completion

Purpose To prepare specialists in the use of computer information systems. Specialists use a computer's capabilities as a problem-solving tool for positions that require knowledge of computer hardware, software, and operating procedures.

Learning Outcomes The graduate will:

• have a broad range of skills necessary to be an effective user of information systems.
• have core skills in the use of computers, as well as the related skill areas of mathematics and writing.
• use appropriate library and information resources to research computer-related issues, concepts, and tools and support lifelong technical learning.
• interpret the concepts of a problem-solving task.
• manipulate variables using computer software applications.
• collect and display data in various formats using computer software.
• understand the use of programming languages to support problem-solving.

Gainful Employment Disclosure

Standard Occupational Classification: 11-3021.00

Go to the Department of Labor’s O*Net website for a profile of this occupation:
Computer User Support Specialists

onetonline.org/link/summary/15-1151.00

Or check on these O*Net Related Occupations:

Computer Programmers onetonline.org/link/summary/15-1131.00

How many students complete the Computer Specialist 1-year Certificate?
Twenty-nine students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Approximately 3 percent completed in the number of terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to be better prepared for college level courses, affecting this narrowly defined on-time completion rate.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 14 positions
Statewide: 159 positions

What wages are forecast for this occupation?
Lane County average hourly - $25.41; average annual - $52,843
Oregon average hourly - $34.97; average annual - $72,735

How much will the program cost?
(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition.)
Resident tuition and fees $4,237
Books and materials $1,616
CIT Lab Fees $78
Total Estimate $5,931

What’s included?
Program Costs: lanec.edu/esfs/credit-fees-and-expenses

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans $5,518
Institutional financing $178

Prerequisites
Students must qualify for WR 121, either by placement testing or completing prerequisite courses, and by the third term, qualify to begin MTH 095. Each student should consult with a counselor or advisor to plan a program of study.

Program Lead
Ron Little, Bldg. 19, Room 156, 541.463.5464, littler@lanec.edu

Note
The curriculum for the Computer Specialist certificate provides a foundation in information technology. This curriculum provides “core” computer information systems knowledge and is the first-year curriculum for the Computer Information Systems degree. It is highly recommended that the student continue on with the second year of the Computer Information Systems degree.

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All CIS, CS, and ET courses must be completed with a letter grade of “C-” or better.
3. All other courses may be completed with a “C-” or Pass grade.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 100 Computing Careers Exploration</td>
<td>2</td>
</tr>
<tr>
<td>CIS 102 Problem Solving with Computers</td>
<td>4</td>
</tr>
<tr>
<td>CIS 140W Intro to Operating Systems: Windows Clients</td>
<td>4</td>
</tr>
<tr>
<td>MTH 095 Intermediate Algebra or higher</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Winter
CS 179 Introduction to Computer Networks .......... 4
ET 287 Microcomputer Hardware ....................... 4
WR 121 Introduction to Academic Writing .......... 4
Choice of:.................................................. 3-4
CIS 195 Web Authoring 1
CS 133N Beginning Programming: C# .... 4
CS 133P Beginning Programming: Python ........ 4
CS 161C+ Computer Science 1
CS 161J Computer Science 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
</table>
| CG 203 Human Relations at Work .................... 3
| CIS 125D Software Tools 1: Databases ............. 4
| Speech Requirement (see note 2) ................... 4
| Choice of:.................................................. 4
| CIS 195 Web Authoring 1
| CS 133JS Beginning Programming JavaScript ....... 4
| CS 133N Beginning Programming: C# ............... 4
| CS 133P Beginning Programming: Python .......... 4
| CS 161C+ Computer Science 1
| CS 161J Computer Science 1
| CS 162C+ Computer Science 2
| CS 162J Computer Science 2
| CS 233N Intermediate Programming: C# ........... 4
| CS 233P Intermediate Programming: Python ....... 4
| **Total Credits**                                | **15**  |

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
</table>
| CS 133N Beginning Programming: C# .... 4
| CS 162C+ Computer Science 2
| CS 162J Computer Science 2
| CS 233N Intermediate Programming: C# ........... 4
| CS 233P Intermediate Programming: Python ....... 4
| **Total Credits**                                | **15**  |

Construction Technology

Offered by the Advanced Technology Division, 541.463.5380

Two-Year Associate of Applied Science Degree

One-Year Certificate of Completion

Career Pathway Certificate of Completion,
Landscape Construction

Purpose
To train students in the technical skills and knowledge of the construction industry. The graduate of this program can expect to work in the residential and commercial building construction field.

Learning Outcomes
The graduate will:
- demonstrate basic carpentry skills for the construction industry.
- cut, fit, and assemble wood and other materials for building construction.
- demonstrate and use industry safety standards.
- use blueprint reading skills necessary to the profession.
- demonstrate knowledge of laser level and field elevations.
- be adequately prepared to enter the workforce in the field of construction.
- use appropriate library and information resources to research professional issues.
- interpret the concepts of a problem-solving task and translate them into mathematics.

Job Openings Projected through 2020
Lane County openings - 38 annually
Statewide openings - 437 annually

Wages
Lane County average hourly - $21.34; average annual - $44,386
Oregon average hourly - $21.86; average annual - $44,386

Costs
(Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 100 Computing Careers Exploration</td>
<td>2</td>
</tr>
<tr>
<td>CIS 102 Problem Solving with Computers</td>
<td>4</td>
</tr>
<tr>
<td>CIS 140W Intro to Operating Systems: Windows Clients</td>
<td>4</td>
</tr>
<tr>
<td>MTH 095 Intermediate Algebra or higher</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
Resident Tuition and Student Fees................................. $9,006
Other Course/Program Costs........................................ $210
Tools.............................................................................. $200
Books and supplies....................................................... $700

Total Estimate $10,116

Construction Technology course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Prerequisites Minimum placement score of 68 in Reading, OR completion of RD 080, OR RD 087 AND EL 115, OR prior college. A high school diploma or equivalent is recommended for all applicants to this program.

Admission Information See lanecc.edu/advtech/at/admission-information or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Construction Technology Co-op Coordinator and with instructor consent, a maximum of 18 Co-op credits may be earned in lieu of required Construction Technology course credits. Contact Marv Clemans, Construction Technology Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemonsm@lanecc.edu

Course Requirements
1. All CST and MTH courses must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
2. WR and PE/Health requirement must be passed with a Pass or “C-” or better to fulfill program requirements.
3. See course descriptions for prerequisite and corequisite information.
4. For choices in Foundational Skills and Discipline Studies, see AAS degree description, page 44.

Two-Year Associate of Applied Science Degree
First Year
Fall
CIS 101 Computer Fundamentals ................................. 3
CST 110 Blueprint Reading 1 ................................. 3
CST 111 Construction Orientation and Environment ................................. 2
MTH 085 Applied Geometry for Technicians or higher mathematics ................................. 4

Total Credits 17

Winter
CST 118 Building Construction .................................. 5
CST 122 Construction Codes .................................. 2
CST 211 Blueprint Reading 2 .................................. 3
PE/Health requirement ........................................ 3
WR 121 Introduction to Academic Writing .................. 4

Total Credits 17

Second Year
Fall
CST 116 Construction Estimating ................................. 4
CST 118 Building Construction .................................. 5
CST 119 Building Construction Surveying .................. 3
Human Relations requirement .................................. 3

Total Credits 15

Spring
CST 280 Co-op Ed: Construction ................................. 3
DRF 142 Graphic Concepts ....................................... 2
DRF 167 CAD 1 ......................................................... 4
Directed electives (see list below) ................................ 3

Total Credits 15

Winter
CST 280 Co-op Ed: Construction ................................. 3
DRF 208 Residential Buildings ................................. 4
Science or Computer Science course .......................... 3
Directed electives (see list below) ................................ 6

Total Credits 16

Spring
CST 280 Co-op Ed: Construction ................................. 3
Directed electives (see list below) ................................ 9
Choice of................................................................. 3
Arts/Letters, Science or Computer Science course, or Social Science/Human Relations requirement ................................. 9

Total Credits 15

Directed Electives (18 credits required for AAS degree)

Apprenticeship/Electronics Courses
APPR 101 Trade Skills Fundamentals .......................... 4
ET129 Electrical Theory 1 ........................................ 4
ET130 Electrical Theory 2 ........................................ 4

Business Courses
BA 101 Introduction to Business ................................. 4
BT 165 Introduction to Accounting Cycle .................... 3

Drafting Courses
DRF 137 Architectural Drafting – Plans ...................... 4
DRF 168 CAD 2 ......................................................... 4
DRF 205 Drafting: Structures ..................................... 4
DRF 207 Drafting: Strength of Materials ..................... 4

Skill Development Courses
LAT 131 Landscape Construction ................................ 3
LAT 141 Principles of Nursery Operations .................... 2
LAT 155 Landscape Plants 1 ....................................... 4
LAT 156 Landscape Plants 2 ....................................... 4
LAT 157 Landscape Plants 3 ....................................... 4
WLD 121 Shielded Metal Arc Welding 1 ...................... 4
WLD 122 Shielded Metal Arc Welding 2 ...................... 4

Mathematics Courses, Choice of:
MTH 070 Introductory Algebra ................................. 5
MTH 075 Applied Algebra for Technicians .................. 4
MTH 095 Intermediate Algebra or higher ........................ 5

Construction Technology
One Year Certificate of Completion

Purpose To train students in the technical skills and knowledge of the construction industry. The graduate of this program can expect to work in the residential and commercial building construction field.

Learning Outcomes The graduate of the one-year certificate will:
Construction Technology - Construction, Landscape - Construction Trades, General Apprenticeship

• demonstrate basic carpentry skills for the construction industry.
• cut, fit, and assemble wood and other materials for building construction.
• demonstrate and use industry safety standards.
• use blueprint reading skills necessary to the profession.
• demonstrate knowledge of laser level and field elevations.
• be adequately prepared to enter the workforce in the field of construction.

Gainful Employment Disclosure

Standard Occupational Classification: 47-2061.00
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Construction Laborers
onetonline.org/link/summary/47-2061.00
Or check on these O*Net Related Occupations:
Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters onetonline.org/link/summary/47-3011.00

How many students complete the Construction Technology 1-year Certificate?
Two students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 6 positions
Statewide: 75 positions

What wages are forecast for this occupation?
Lane County average hourly - $40.48; average annual - $84,204
Oregon average hourly - $39.67; average annual - $82,514

How much will the program cost?
(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

What's included?
Program Costs: lanec.edu/advtech/program-costs

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans......................................................... Not disclosed
Institutional financing.............................................. Not disclosed
(For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than ten graduates.)

Course Requirements

1. All CST and MTH courses must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
2. WR and PE/Health requirement must be passed with a “C-” or better to fulfill program requirements.
3. See course descriptions for prerequisite information.

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 101 Computer Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CST 110 Blueprint Reading I</td>
<td>3</td>
</tr>
<tr>
<td>CST 111 Construction Orientation and Environment</td>
<td>2</td>
</tr>
<tr>
<td>CST 118 Building Construction</td>
<td>5</td>
</tr>
<tr>
<td>MTH 085 Applied Geometry for Technicians or higher mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits</td>
<td>17</td>
</tr>
</tbody>
</table>

Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CST 118 Building Construction</td>
<td>5</td>
</tr>
<tr>
<td>CST 122 Construction Codes</td>
<td>2</td>
</tr>
<tr>
<td>CST 211 Blueprint Reading 2</td>
<td>3</td>
</tr>
<tr>
<td>PE/Health elective</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
</tr>
</tbody>
</table>

WR 121 Introduction to Academic Writing ............... 4
Total Credits 17

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CST 116 Construction Estimating</td>
<td>4</td>
</tr>
<tr>
<td>CST 118 Building Construction</td>
<td>5</td>
</tr>
<tr>
<td>CST 119 Building Construction Surveying</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations requirement</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

Total Estimate $6,171

Books and supplies................................................. $1,110
On-Campus room and board........................................ Not offered

Total Estimate $11,675

Construction, Landscape

Career Pathway Certificate of Completion

Note This curriculum is under review. Please see an advisor or counselor for updated information.

Construction Trades, General Apprenticeship

Offered by the Advanced Technology Division,
541.463.5380

Associate of Applied Science Degree, Construction Trades, General Apprenticeship

Certificate of Completion, Construction Trades, General Apprenticeship

Purpose To provide a structured system of training in construction trades or occupations, leading to certification and journey-level status, only for apprentices who are sponsored by individual employers, accepted by a Joint Apprenticeship Training Committee, and registered with the State of Oregon Bureau of Labor and Industries.

Learning Outcomes The graduate will:
• perform the duties and responsibilities of the individual construction trade/occupation.
• apply theory as it relates to trade competencies.
• demonstrate and use industry safety standards.
• utilize recognized standard building codes guidelines as applicable.
• prepare and utilize isometric sketching and detailed drawings per individual trade.
• develop and improve customer relations skills in the construction trades.
• demonstrate communication and critical thinking skills necessary for job development.
• use appropriate library and information resources to research professional issues and support lifelong learning.
• access library, computing, and communications services, and appropriately select information and data from regional, national, and international networks.
• represent, analyze, and determine rules for finding patterns relating to linear functions, non-linear functions and arithmetic sequences with tables, graphs, and symbolic rules.
• adapt to new job requirements to qualify for advancement in becoming lead supervisors.
• complete 8,000 hours State of Oregon-approved on-the-job training.

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident Tuition and Student Fees</td>
<td>$10,325</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$1,350</td>
</tr>
<tr>
<td>Total Estimate</td>
<td>$11,675</td>
</tr>
</tbody>
</table>

Construction Trades, General Apprenticeship course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.
### Carpenter

**Job Openings Projected through 2020**
- Lane County openings - 38 annually
- Statewide openings - 437 annually

**Wages**
- Lane County average hourly - $20.36; average annual - $42,354
- Oregon average hourly - $22.71; average annual - $47,244

### HVAC

**Wages**
- Lane County average hourly - $27.78; average annual - $57,794
- Oregon average hourly - $29.90; average annual - $57,794

**Job Openings Projected through 2020**
- Lane County openings – 7 annually
- Statewide openings - 115 annually

### Sheet Metal

- **Wages**
  - Lane County average hourly - $20.36; average annual - $42,354
  - Oregon average hourly - $22.71; average annual - $47,244

**Job Openings Projected through 2020**
- Lane County openings - 15 annually
- Statewide openings - 208 annually

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workplace Emphasis or higher-level writing</td>
<td>3</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra or higher-level math</td>
<td>4</td>
</tr>
<tr>
<td>PE/Health Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Arts and Letters requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science/Math/Computer Science requirement</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Certification
- **Apprentice Wages**: Although wages vary, the average starting wage of an apprentice is about 50% of a journey worker's rate of pay. Apprentices usually earn a five-percent raise every six months if training and school performance is satisfactory. Check the Bureau of Labor and Industries website: boli.state.or.us.

#### Program Certification
- An apprenticeship "Award of Completion" issued by the Oregon Bureau of Labor and Industries Apprenticeship and Training Division certifies that an individual has been trained in all aspects of an occupation and has met the requirements for program completion. This certificate is recognized throughout Oregon and industry-wide as a valid indicator of high quality, standardized training, and it provides on-the-job training documentation for community college credit.

In addition, the Oregon community college Construction Trades, General Apprenticeship pathway provides statewide transfer opportunities, laddered certificates of completion, and an optional transfer path into Oregon Institute of Technology Bachelor of Science degree in Operations Management. The Construction Trades, General Apprenticeship pathway includes an advising guide with a set of recommended courses that satisfy both the AAS and the Oregon Transfer Module (OTM). Students who complete the recommended set of OTM courses may apply for 45 credits of guaranteed block transfer to any other community college or Oregon University System institution.

### Licensing or Other Certification Exams
- HVAC technician/installer and plumber trades require successful completion of trade-specific licensure examinations through the Oregon Building Codes Division.

**Admission Information**: Students must be registered apprentices with the State of Oregon Bureau of Labor and Industries. Information is available at boli.state.or.us.

**Pre-requisites**: Minimum placement scores – Reading 68, Writing 64, and Math parts A, B, C with 7/10 score. Note: See the counselor or advisor to obtain the suggested entry-level skills for successful completion of these programs.

### Construction Trades, General Apprenticeship

**Associate of Applied Science**

To earn the degree, a student must:
- complete 8000 hours State of Oregon-approved on-the-job training and provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD Certificate of Completion
- demonstrate an equivalency of 90 credit hours, with a minimum of 24 credits at Lane, including the last term at Lane
- complete all requirements for an AAS degree as listed below
- earn a cumulative grade point average above 2.0 at Lane or transfer credits earned at other regionally accredited colleges or universities

#### Course Requirements

1. WR 115W and MTH 060 must be completed with a grade of “Pass” or “C-” or better.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. General Education</td>
<td></td>
</tr>
<tr>
<td>WR 115W Intro to College Writing: Workplace Emphasis or higher-level writing</td>
<td>3</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra or higher-level math</td>
<td>4</td>
</tr>
<tr>
<td>PE/Health Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Arts and Letters requirement</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science/Math/Computer Science requirement</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td>3</td>
</tr>
<tr>
<td>2. Journeyman card from Oregon Bureau of Labor and Industries Apprenticeship and Training</td>
<td></td>
</tr>
<tr>
<td>Division, prior certification credits</td>
<td>22</td>
</tr>
<tr>
<td>3. Construction Trades Core-Related Training</td>
<td>36-46</td>
</tr>
<tr>
<td>(Choice of one of the following trades)</td>
<td></td>
</tr>
</tbody>
</table>

#### Carpenter (36 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR 115 Carpenter Skill Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>APR 116 Carpenter Framing Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>APR 117 Carpenter Framing and Introduction to Concrete</td>
<td>3</td>
</tr>
<tr>
<td>APR 118 Carpenter Framing and Finishing</td>
<td>3</td>
</tr>
<tr>
<td>APR 119 Carpenter Commercial Plans and Exterior Finish</td>
<td>3</td>
</tr>
<tr>
<td>APR 120 Carpenter Interior Finish</td>
<td>3</td>
</tr>
<tr>
<td>APR 201 Carpenter Basic Rigging and Practices</td>
<td>3</td>
</tr>
<tr>
<td>APR 202 Carpenter Concrete Practices</td>
<td>3</td>
</tr>
<tr>
<td>APR 203 Carpenter Forms and Tilt-up Panels</td>
<td>3</td>
</tr>
<tr>
<td>APR 204 Carpenter Advanced Layout and Building Systems</td>
<td>3</td>
</tr>
<tr>
<td>APR 205 Carpenter Advanced Planning and Management</td>
<td>3</td>
</tr>
<tr>
<td>APR 206 Carpenter Equipment and Site Layout</td>
<td>3</td>
</tr>
</tbody>
</table>
Construction Trades, General Apprenticeship

Certificate of Completion

Purpose Students may earn a Certificate of Completion in Construction Trades, General Apprenticeship by successfully completing 36-44 core related training credits with a 'C' or better in all courses, and completing related instruction in communications, computation, and human relations.

Learning Outcomes The graduate will:

- apply theory as it relates to trade competencies.
- perform the duties and responsibilities of the individual construction trade/occupation.

To earn the certificate, students must:

- complete State of Oregon-approved on-the-job training and provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD Certificate of Completion
- 8000-Hour BOLI-ATD Trade: Carpenter
- 8000-Hour BOLI-ATD Trade: HVAC Technician/Installer
- 8000-Hour BOLI-ATD Trade: Plumber
- 8000-Hour BOLI-ATD Trade: Sheet Metal Worker
- complete related instruction (communication, computation, human relations).............. 9
- complete core-related training........................................................ 36-46

Total Credits 45-55

Core Related Training requirements (Choice of one of the following trades)

Carpenter (36 Credits)

APR 115 Carpenter Skill Fundamentals .............................................. 3
APR 116 Carpenter Framing Fundamentals ............................................ 3
APR 117 Carpenter Framing and Introduction to Concrete ................. 3
APR 118 Carpenter Framing and Finishing ........................................... 3
APR 119 Carpenter Commercial Plans and Exterior Finish ............... 3
APR 120 Carpenter Interior Finish .................................................... 3
APR 201 Carpenter Basic Rigging and Practices .................................. 3
APR 202 Carpenter Concrete Practices ................................................ 3
APR 203 Carpenter Forms and Tilt-up Panels ..................................... 3
APR 204 Carpenter Advanced Layout and Building Systems ............. 3
APR 205 Carpenter Advanced Planning and Management ................. 3
APR 206 Carpenter Equipment and Site Layout ................................ 3

HVAC Technician/Installer (41-44 credits)

APR 101A Trade Skills Fundamentals .................................................. 4
APR 121 HVAC Systems 1 .................................................................. 5
APR 220A Electrical Code and Exam Prep ........................................ 2-3
APR 111 Electrical Theory 1 ............................................................. 2-3
APR 220B Electrical Code and Exam Prep ........................................ 2-3
ET 129 Electrical Theory 1 ............................................................... 2-3
ET 130 Electrical Theory 2 ............................................................... 2-3
ET 229 Motors 1 .............................................................................. 2-3
ET 230 Motors 2 .............................................................................. 2-3

Plumber (36-39 credits)

APR 160 Plumbing Skill Fundamentals .................................................. 4
APR 161 Plumbing Materials and Fixtures ........................................... 4
APR 162 Plumbing Basic Waste Water Systems .............................. 4
APR 163 Plumbing Calculations and Print Reading ........................... 4
APR 164 Plumbing Advanced Waste Systems .................................... 4
APR 165 Plumbing Basic Installation 1 ................................................ 2-3
APR 166 Plumbing Basic Installation 2 ................................................ 2-3
APR 167 Plumbing Skill Fundamentals ................................................ 4
APR 260 Plumbing Water Supply Systems ......................................... 4
APR 261 Pipe Sizing and Systems ...................................................... 4
APR 262 Plumbing Advanced Waste Systems .................................... 2
APR 263 Plumbing Code and Test Prep .............................................. 6-9

Sheet Metal Worker (46 credits)

APR 101A Trade Skills Fundamentals .................................................. 4
APR 170 Sheet Metal/Apprenticeship ................................................... 4
APR 171 Sheet Basic Layout ............................................................... 4
APR 172 Sheet Metal/HVAC Blueprint Reading .................................. 3
APR 270 Architectural Sheet Metal ..................................................... 4
APR 271 Sheet Metal Building Codes and Installation ....................... 4
APR 272 Sheet Metal Design .............................................................. 4
APR 273 Sheet Metal Fabrication ....................................................... 4
APR 274 Sheet Metal Shop Fabrication ............................................... 4
APR 275 Sheet Metal Project Supervision .......................................... 4
MTH 085 Applied Geometry for Technicians .................................... 4
WLD 121 Shielded Metal Arc Welding 1 ............................................. 2
WLD 122 Shielded Metal Arc Welding 2 ............................................. 2
WLD 123 Welding Lab .................................................................... 1-6
WLD 124 Pipe Welding Lab: Carbon Steel ....................................... 1-6
WLD 143 Wire Drive Welding 1 .......................................................... 4

To earn the certificate, students must:

- 4. Program Electives to complete 90 credits for degree...................... 1-11
- complete core-related training ......................................................... 36-46

Academic Advising Online

Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Culinary Arts and Food Service Management

Offered by Culinary Arts and Hospitality Management, 541.463.3503

Two-Year Associate of Applied Science Degree

Dual-Degree Option for Culinary Arts/Hospitality Management

Career Pathway Certificate of Completion, Baking and Pastry

Career Pathway Certificate of Completion, Dietary Manager

Purpose To enable the transformation of students’ passion for food and cooking into careers as future professional culinarians, restaurant owners, food and beverage managers, pastry cooks, dietary managers and other careers in food services. Focusing on classical culinary principles and techniques, the program’s coursework is sequenced in building blocks of knowledge and skills competencies with an emphasis on learning by doing.

Accreditation The Culinary Arts two-year program (AAS degree) is accredited by the American Culinary Federation Foundation Accrediting Commission, a specialized accrediting commission recognized by the Council for Higher Education Accreditation. A student graduating from the program will be eligible to receive national certification status as a Certified Culinarian (CC).

Learning Outcomes The graduate of the two-year AAS will:

• develop a broad range of culinary and dining room service skills.
• operate equipment including cook tops, food processors, ovens (baking, convection, and conventional), dough mixers, meat slicers, espresso machines, cash register, point of sales (POS) systems and a variety of kitchen tools.
• develop supervisory and human relations skills.
• understand the fundamentals of financial analysis, purchasing and receiving, menu planning and costing, and food and beverage controls.
• access library, computer and communications services and obtain information and data from regional, national and international networks.
• develop fundamental baking and pastry knowledge and skills.
• perform mathematical functions related to food service operations.
• successfully plan and prepare large culinary events in the Center for Meeting and Learning.

Job Openings Projected through 2020:

Chefs and Head Cooks
Statewide openings - 43 annually
Lane County openings - 3 annually

Food Service Managers
Statewide openings - 97 annually
Lane County openings - 8 annually

Production Bakers
Statewide openings - 115 annually
Lane County openings - 12 annually

Restaurant Cooks
Statewide openings - 605 annually,
Lane County openings - 38 annually

Supervisors and Managers of Food Preparation and Serving Workers
Statewide openings - 397 annually
Lane County openings - 32 annually

Wages

Chefs and Head Cooks - Lane County average hourly - $18.42
Oregon average hourly $21.89, average annual - $45,102
Food Service Managers - Lane County average hourly - $21.96
Oregon average hourly $23.47, average annual - $48,815
Production Bakers - Lane County average hourly - $12.58
Oregon average hourly $13.94, average annual - $28,998
Restaurant Cooks - Lane County average hourly - $12.25
Oregon average hourly $11.71, average annual - $24,353
Supervisors and Managers of Food Preparation and Serving Workers - Lane County average hourly - $14.38
Oregon average hourly $14.82, average annual - $30,844

Costs (Estimate based on 2012 tuition and fees for 2-yr program)

Resident Tuition and Student Fees.............................. $9,893
Differential Fees‡................................................... $2,270
Other Course/Program Costs...................................... $325
Culinary Books and supplies.................................... $745
Culinary Fees......................................................... $1860

Total $15,093

‡ This is the total of all the differential fees attached to Culinary Arts courses. These and other fees may change during the year - see the online credit class schedule for fees assigned to courses.

Licensing and Other Certification Exams During the course of the program, students may earn a National Restaurant Association Education Foundation (NRAEF) Serv-Safe Certification. Other NRAEF Certificate examinations for various courses are available.

Prerequisites Students can enter the Culinary Arts program in fall, winter, or spring terms. Fall term entry is highly recommended in order to begin the foundational Cooking Theories course sequence. Complete college placement tests with the following minimum scores: writing-64, reading-68 and readiness for MTH 025 – taking Math Placement Test Parts A, B and C – 7 out of 10 in each part, and attach copies of test score sheets to application. Students with prior college credit must attach a copy of transcript(s), and are highly recommended to take the Placement Tests and attaching those scores as well. Math must be current within one year or a Placement Test will be required. A Lane County Food Handlers Card is required for entry into the program.

Admission Information A separate application to the program is required. Admission information is available from the Culinary Arts and Hospitality Management office, Building 19, Room 202 or online at lanecc.edu/culinary. Or email: CulinaryHospPrograms@lanecc.edu

Cooperative Education (Co-op) Students earn credit for on-the-job work experience related to educational and career goals. Through Co-op, students can develop and practice skills, expand career
knowledge, and make contacts for future job openings. For more information contact Joe McCully, Cooperative Education Coordinator, Bldg.19, Rm. 210, 541.463.3516, mcculby@lanecc.edu

Program Contact Wendy Milbrat, Administrative Support Specialist, 541.463.3503, milbratw@lanecc.edu or email: Culinary-HospPrograms@lanecc.edu

Students interested in transferring to a four-year institution should:
1. Substitute WR 121 classes for WR 115W.
2. Add MTH 111 and MTH 112.
3. Add a speech course.
4. Add WR 122 and WR 123.

Course Requirements
1. All courses required for this program must be taken for a letter grade, not P/NP, and must be passed with a grade of C- or better.
2. Students may take Cooperative Education any term approved by the coordinator.

Two-Year Associate of Applied Science Degree

General Education Requirements (may be completed prior to program entry or any program term)
Writing requirement .......................................................... 3
Mathematics (MTH 025 or higher) ......................................... 3
HE 252 First Aid .................................................................. 3
Arts and Letters requirement ................................................. 3
Science/Math/Computer Science .......................................... 3
Human Relations Requirement .............................................. 3
Choice of: .......................................................................... 3
Social Science or Science/Math/Computer Science or Arts and Letters requirement

Total Credits 21

Fall
CA 160 Introduction to Cooking Theories 1 ......................... 6
CA 175 Foodservice Sanitation and Safety ............................. 2
Choice of General Education Requirement ......................... 3
Choice one of the following each term to complete all three: 3
HRTM 105 Restaurant Operations
HRTM 106 Introduction to Hospitality Management
CA 200 Menu Management
FN 105 Nutrition for Foodservice Professionals ................... 3

Total Credits 17

Winter
CA 162 Introduction to Cooking Theories 2 ......................... 7
HRTM 220 Sustainability in the Hospitality Industry .............. 2
Choice of General Education Requirement ......................... 3
Choice one of the following each term to complete all three: 3
HRTM 105 Restaurant Operations
HRTM 106 Introduction to Hospitality Management
CA 200 Menu Management
Directed Electives .............................................................. 0-3

Total Credits 15

Spring
CA 163 Introduction to Cooking Theories 3 ......................... 7
Choice of General Education Requirement ......................... 3
Choice one of the following each term to complete all three: 3
HRTM 105 Restaurant Operations
HRTM 106 Introduction to Hospitality Management
CA 200 Menu Management
Directed Electives .............................................................. 0-4

Total Credits 13-17

CA 280 Co-op Ed: Culinary Arts, Second Year ........................ 7

Total Credits 7

Fall
CA 292 Advanced Cooking Theories 1 ................................. 7
HRTM 265 Hospitality Financials 1 ...................................... 3
HRTM 260 Hospitality Human Resources and Supervision .... 3
Choice of General Education Requirement ......................... 3
Directed Electives .............................................................. 0-3

Total Credits 16-19

Winter
CA 176 Concepts of Taste and Flavor .................................. 3
CA 293 Advanced Cooking Theories 2 ................................. 7
HRTM 275 Hospitality Financials 2 ...................................... 3
Choice of General Education Requirement ......................... 3
Directed Electives .............................................................. 0-3

Total Credits 16-19

Spring
CA 294 Advanced Cooking Theories 3 ................................. 7
HRTM 290 Hospitality Leadership ........................................ 3
Choice of General Education Requirement ......................... 3

Total Credits 17

Directed Electives
BA 278 Leadership and Team Dynamics ............................. 4
BI 103H General Biology .................................................. 4
BT 163 QuickBooks .......................................................... 3
BT 123 MS Excel for Business ............................................. 3
BT 122 MS PowerPoint for Business ................................... 3
BT 120 MS Word for Business ............................................ 3
CA 110 Culinary Adventuring: Local Guest Chef Series .......... 2
CA 120 Culinary Adventuring: Seasonal Baking and Pastry .... 2
CA 121 Culinary Adventuring: The Composition of Cake ....... 2
CA 123 Culinary Adventuring: International Baking and Pastry 
CA 130 Culinary Adventuring: Oregon Wine Country .......... 2
CA 159 Kitchen Fundamentals ............................................ 2
CA 163A Beginning Baking and Pastry ............................... 3
CA 163B Intermediate Baking and Pastry ............................. 3
CA 163C Advanced Baking and Pastry ............................... 3
CA 225 Catering Lab ........................................................ 2
CS 120 Concepts of Computing: Information Processing ........ 4
ES 102 Contemporary Racial and Ethnic Issues .................... 4
FN 110 Personal Nutrition ................................................ 3
FN 235 Managing Food and Nutrition Services .................... 3
FN 255 Introduction to Medical Nutrition Therapy ................ 3
FN 280 Co-op Ed: Dietary Manager .................................... 4
GEOG 201 World Regional Geography ............................... 3
HRTM 100 Introduction to Culinary Arts and Hospitality Management .................................................... 3
HRTM 104 Introduction to Travel and Tourism ....................... 3
HRTM 109 Principles of Meeting and Convention Management .................................................... 3
HRTM 110 Hospitality Sales and Marketing ......................... 3
HRTM 140 Hospitality Law and Security ............................. 3
HRTM 209 Advanced Principles of Meeting and Convention Management .................................................... 3
HRTM 205 Managing the Restaurant Operation .................... 3
HRTM 230 Hotel Operations 1 ........................................... 3
HRTM 231 Hotel Operations 2 ........................................... 3
HRTM 286 Bar and Beverage Management ............................ 3
HST 104, 105, or 106 World History .................................... 4
PHL 201 Ethics ............................................................... 4
SP 115 Introduction to Intercultural Communications ............... 4
SP 130 Business and Professional Speech ............................ 4
SUST 101 Introduction to Sustainability .............................. 3
WR 121 Introduction to Academic Writing ............................ 4
Dual-Degree Option for Culinary Arts/Hospitality Management

Advising Plan for Culinary Arts AAS students
(Completing a second Two-year Associate of Applied Science degree)

Culinary Arts students who obtain the 2-year AAS degree in Hospitality Management will enhance their industry skill set and education. This list shows how Culinary Arts graduates may also complete the AAS degree in Hospitality Management.

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 225 Banquet Operations..........</td>
<td>HRTM 110 Hospitality Sales and Marketing</td>
<td>HRTM 225 Banquet Operations.......</td>
<td>CA 120 Culinary Adventuring: Seasonal</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>2</td>
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</tr>
<tr>
<td>HRTM 230 Hotel Operations 1.........</td>
<td>HRTM 225 Banquet Operations........</td>
<td>HRTM 231 Hotel Operations 2.......</td>
<td>CA 121 Culinary Adventuring: Composition of Cake</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>HRTM 286 Bar and Beverage Management</td>
<td>HRTM 140 Hospitality Law and Security</td>
<td>HRTM 205 Managing the Restaurant Operation</td>
<td>CA 163C Advanced Baking and Pastry</td>
</tr>
<tr>
<td>3</td>
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<td><strong>Total Credits</strong></td>
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<td>8</td>
<td>11</td>
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Baking and Pastry

Career Pathway Certificate of Completion

Purpose The Career Pathways Certificate (CPC) program in Baking and Pastry is for students who want to gain entry into the food service industry as beginning bakers and pastry cooks. All of the classes offered in this CPC program apply directly to an Associate of Applied Science degree in Culinary Arts and Foodservice Management.

Learning Outcomes The graduate will:
- develop essential and advanced baking and pastry knowledge and skills.
- operate equipment including cook tops, food processors, ovens (baking, convection, and conventional), dough mixers and a variety of kitchen tools.
- perform mathematical functions related to food service operations.

Admission Information A separate application to the program is required. Admission information is available from the Culinary Arts and Hospitality Management office, Building 19, Room 202 or online at lanecc.edu/culinary. Or email: CulinaryHospPrograms@lanecc.edu

Costs in Addition to Tuition (estimate)

Differential Fees .......................................................... $976

This is the total of all the differential fees attached to Baking and Pastry Career Pathway Certificate courses. These and other fees may change during the year - see the online credit class schedule for fees assigned to courses.

Career Pathway Certificate of Completion

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
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</thead>
<tbody>
<tr>
<td>CA 120 Culinary Adventuring: Seasonal</td>
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<td>CA 120 Culinary Adventuring: Seasonal</td>
<td></td>
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<tr>
<td>Baking and Pastry ..........................</td>
<td>2</td>
<td>Baking and Pastry ..........................</td>
<td>2</td>
</tr>
<tr>
<td>CA 163A Beginning Baking and Pastry ........................................</td>
<td>3</td>
<td>CA 163A Beginning Baking and Pastry ........................................</td>
<td>3</td>
</tr>
<tr>
<td>CA 175 Foodservice Safety and Sanitation .........................................</td>
<td>2</td>
<td>CA 175 Foodservice Safety and Sanitation .........................................</td>
<td>2</td>
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<td><strong>Total Credits</strong></td>
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<td>7</td>
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<td>6</td>
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</tbody>
</table>

Dietary Manager

Career Pathway Certificate of Completion

Offered in partnership with the Health Professions Division by Culinary Arts and Hospitality Management, 541.463.3503; 541.463.5525

Purpose To offer Culinary Arts students the opportunity to earn an additional industry credential in dietary services management to broaden their employability as part of a health professionals team.

According to the Association of Nutrition and Foodservice Professionals, a Certified Dietary Manager (CDM®) has the education, training, and experience to competently perform the responsibilities of a dietary manager and has proven this by passing a nationally-recognized credentialing exam and fulfilling the requirements needed to maintain certified status. CDMs are experts at managing dietary operations. They are trained and qualified to administrate menus, food purchasing, and food preparation; and to apply nutrition principles, document nutrition information, ensure food safety, manage work teams, and more.

Learning Outcomes Graduates will be able to direct and control or assist with the dietary departments of hospitals, long-term care facilities, schools, correctional facilities, and many other settings, having skills for:
- menu planning
- food purchasing
- food service sanitation and safety
- financial management
- employee recruitment, training and supervision
- supervising the serving of special meals prescribed for medical purposes
- nutritional screening
- documentation of nutritional assessment data in the medical record

Job Openings Projected through 2020

Lane County openings - 7 annually
Statewide openings - 87 annually

Academic Advising Online

Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Wages
Lane County average hourly - $26.67; average annual - $53,029
Oregon average hourly - $29.35; average annual - $64,609

Costs in Addition to Tuition and Registration Fees (Estimate based on 2011 data) - Subject to change without notice.
Books .......................................................... $200-300

Admission Information Available from the Health Professions office or online at lanecc.edu/hp.

Program Endorsement The Dietary Manager Program has been approved by the Association of Nutrition and Foodservice Professionals through June 2015. Graduates are eligible for the credentialing exam and active ANFP membership.

Cooperative Education (Co-op) The Dietary Manager Training Program requires 4 credits (150 hours) of practical experience. Students earn credit for on-the-job work experience related to educational and career goals. Through Co-op, students can develop and practice skills, expand career knowledge, and make contacts for future job openings. Contact Tamberly Powell, Dietary Manager Co-op Coordinator, Bldg. 4, Rm. 229, 541.463.5525, powellt@lanecc.edu

Program Coordinator Tamberly Powell, 541.463.5525, powellt@lanecc.edu

Program Counseling and Advising The Health Professions 1 Team, Building 1, Room 103

Career Pathway Certificate Fall, or Winter, or Spring
FN 105 Nutrition for Foodservice Professionals ........................................ 3
FN 255 Medical Nutrition Therapy ......................................................... 3
FN 235 Managing Food and Nutrition Services ....................................... 3
Choice of: .................................................................................. 4
FN 280 Co-op Ed: Dietary Manager or
CA 280 Co-op Ed: Culinary Arts
Total Credits 13

(Culinary Arts students completing this Certificate may take these Co-op hours as Directed Elective credits for the AAS Degree)

Food Preparation and Production
Career Pathway Certificate of Completion
This curriculum is under review. Please see an advisor or counselor for updated information.

Dental Assisting
Offered by Health Professions Division, 541.463.5617

One-Year Certificate of Completion
(See also Two-Year Associate of General Studies in Transfer Plans)

Purpose Prepares graduates for employment in the dental field with emphasis on current concepts and hands-on skills for clinical chairside assisting. Included classes also offer some cross-training and pathways to receptionist-bookkeeper.

Learning Outcomes The graduate will:
• demonstrate knowledge and skills required to collect diagnostic data systematically.
• demonstrate knowledge and skills required to perform a variety of clinically supportive treatments.
• demonstrate knowledge and skills required for business office procedures.
• demonstrate knowledge and skills required for business office procedures.
• demonstrate knowledge and skills required for medical nutrition therapy.
• demonstrate knowledge and skills required for medical nutrition therapy.
• demonstrate knowledge and ability to write/edit multiple types of professional communications.

Gainful Employment Disclosure
Standard Occupational Classification: 31-9091.00
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Dental Assistants onetonline.org/link/summary/31-9091.00
Or check on these O*Net Related Occupations:
Surgical Technologists onetonline.org/link/summary/29-2055.00

How many students complete the Dental Assisting 1-year Certificate?
Twenty-three students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Approximately 17 percent completed in the number of terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to be better prepared for college level courses, affecting this narrowly defined on-time completion rate.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 17 positions
Statewide: 192 positions

What wages are forecast for this occupation?
Lane County average hourly - $19.92; average annual - $41,417
Oregon average hourly - $18.80; average annual - $39,089
Starting salary in the Eugene/Springfield area ranges from $14-17 hourly or $28,560-34,680 annually.

How much will the program cost?
(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Resident tuition and fees ................................................. $5,211
Differential Fees 1 ......................................................... $952
Books ........................................................................... $600
Required Program Costs
(uniforms, National and State Board exams, etc.).............. $4,402
On-Campus room and board.............................................. Not offered

Total Estimate $11,165

1 This is the total of all the differential fees attached to Dental Assisting courses. These fees and other costs may change during the year - see the online credit class schedule for fees assigned to courses.

What’s included?
Program Costs: lanecc.edu/esfs/credit-fees-and-expenses

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans .............................................................. $9,459
Institutional financing ...................................................... $0
Program Accreditation American Dental Association’s Commission on Dental Accreditation, a specialized accrediting board recognized by the U.S. Department of Education. The Commission may be contacted at (312) 440-4653 or 211 East Chicago Avenue, Chicago, Illinois 60611.

Licensing or Other Certification Students complete three National Board examinations each year administered by the Dental Assisting National Board, and are also eligible to receive all state required credentials, by submitting one clinical board and successfully completing the program.

Admission Information Contact the Health Professions Department or see lanecc.edu/hp/dental/dental-assisting

For assistance with meeting application or program requirements, contact Counseling and Advising in Building 1 room 103 or E-mail DAProgram@lanecc.edu with your specific questions. An online Academic Advising resource can be found by going to lanecc.edu/. Choose the “Moodle” link and in search courses type in the program name (e.g. Dental Assisting). Select “Academic Advising Resources for Dental Assisting”.

Dental Assisting is a concentrated program that requires good reading and study skills. Students are encouraged to take DA 103 Dental Law and Ethics prior to entry into the program. Evidence of a physical examination (within the previous nine months) must be submitted prior to admission to the program.

Continuing Education The employed dental assistant may be eligible to register for any course offered if space permits and if the working assistant meets state credentialing qualifications by contacting the Program Coordinator, Leslie Greer 541.463.5638.

Course Requirements

1. Human Relations, Computer, Math and Writing courses required as prerequisites for the Certificate program must be completed for a letter grade.

2. Human Relations prerequisites may be selected from the following:
   - CG 144 Introduction to Assertive Behavior
   - CG 203 Human Relations at Work
   - CG 204 Eliminating Self-Defeating Behavior
   - SOC 204 Introduction to Sociology
   - SOC 205 Social Stratification and Social Systems
   - SOC 206 Institutions and Social Change
   - SOC 207 Women and Work
   - SOC 210 Marriage, Family and Intimate Relations
   - SP 218 Interpersonal Communication

3. DA 103 Dentistry, Law and Ethics and DA 110 Health Sciences are offered Online.

4. For most DA courses students must be enrolled in the Dental Assisting program. Exceptions are DA 103 and 110.

5. All DA courses must be taken for a letter grade and passed with at least a 75% class average.

6. Some courses have prerequisites. See course descriptions.

If program is extended over two years, all first term courses should be taken over the first year.

Cooperative Education (Co-op) Co-op is a required class for students enrolled in the Dental Assisting Program. Through Co-op, students spend approximately 24 hours a week during spring term working in at least two different professional dental offices. Co-op field experience offers students the opportunity to gain skills, connect theory and practice, and make contacts for job openings. The required co-op seminar provides instruction on skills and documents needed to find employment. Contact Leslie Greer, Dental Assisting Co-op Coordinator, Bldg. 4, Rm. 135, 541.463.5638, greerl@lanecc.edu

Program Coordinator: Leslie Greer 541.463.5638

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 052 Basic Math Applications (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Human Relations requirement</td>
<td>3-4</td>
</tr>
<tr>
<td>Choice of:</td>
<td>4</td>
</tr>
<tr>
<td>WR 115 Introduction to College Writing</td>
<td></td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>3-4</td>
</tr>
<tr>
<td>CIS 101 Computer Fundamentals or CS 120 Concepts of Computing: Information Processing</td>
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</tr>
</tbody>
</table>

Total Credits 14-16

Students must be admitted to the Dental Assisting program to enroll in the following Dental Assisting courses, with the exceptions of DA 110 Health Sciences and DA 103 Dental Law and Ethics, which students are encouraged to take prior to entering the certificate program. These classes are offered summer term as well as the following terms. Evidence of a physical examination (within the previous nine months) must be submitted prior to admission to the program.

One-Year Certificate of Completion

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DA 107 Dental Health Education 1</td>
<td>1</td>
</tr>
<tr>
<td>DA 110 Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>DA 115 Dental Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>DA 192 Dental Materials 1</td>
<td>3</td>
</tr>
<tr>
<td>DA 195 Chairside Procedures</td>
<td>6</td>
</tr>
<tr>
<td>DA 210 Dental Radiology</td>
<td>4</td>
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Total Credits 20

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>DA 108 Dental Health Education 2</td>
<td>3</td>
</tr>
<tr>
<td>DA 193 Dental Materials 2</td>
<td>3</td>
</tr>
<tr>
<td>DA 194 Dental Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>DA 196 Chairside Procedures 2</td>
<td>7</td>
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<tr>
<td>DA 211 Dental Radiology 2</td>
<td>2</td>
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</table>

Total Credits 18

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>DA 102 Advanced Clinical Experiences</td>
<td>3</td>
</tr>
<tr>
<td>DA 103 Dentistry, Law and Ethics</td>
<td>2</td>
</tr>
<tr>
<td>DA 206 Co-op Ed Seminar: Dental Assisting</td>
<td>1</td>
</tr>
<tr>
<td>DA 280 Co-op Ed: Dental Assisting</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits 11

Dental Hygiene

Offered by Health Professions Division, 541.463.5617

Two-Year Associate of Applied Science Degree

Purpose To prepare graduates for careers as licensed clinical dental hygienists providing preventive, therapeutic, restorative and educational methods for the control of oral disease and promotion of optimal oral health.

Learning Outcomes The graduate will:

- demonstrate ethics, values, knowledge and skills in the provision of evidence based dental hygiene practice.
Dental Hygiene

- use critical thinking skills and self-evaluation in the provision of patient care, disease prevention and exposure control.
- select and plan educational and clinical services for periodontal
diseases using appropriate interpersonal communication,
comprehensive data collection, knowledge of periodontal condi-
tions and therapies, and educational strategies.
- demonstrate application of refined instrumentation skills for
periodontal, restorative and therapeutic interventions.
- initiate and assume responsibility for health promotion and dis-
ease prevention activities.
- use assessment, planning, implementation and evaluation in
the provision of dental hygiene services for the general dental
patient, special needs populations and community groups.
- use mathematical and statistical concepts to calculate dosages
and assess dental research/literature for application to clinical
and preventive dental care strategies.
- use appropriate library and information resources to research
professional issues, community program planning and to sup-
port lifelong learning.

Job Openings Projected through 2020

Mid-Willamette -Mid-Coast region openings - 14 annually
Statewide openings - 134 annually

Wages
Lane County average hourly - $37.36; average annual - $80,099
Oregon average hourly - $38.46; average annual - $80,099

Program Costs (Estimate based on 2012 tuition and fees.
Consult Lane's website for updated tuition.)

Resident Tuition .......................................................... $7,644
Differential Fees¹ ......................................................... $10,317
Student and Program Fees ........................................... $2,381
Other Course/Program Costs ....................................... $12,508

Total Estimate $32,850

¹ This is the total of all the differential fees attached to Dental Hygiene
courses. These fees and other course fees may change during the year - see
the online credit class schedule for fees assigned to courses.

Program Accreditation The American Dental Association's
Commission on Dental Accreditation, a specialized accred-
iting board recognized by the U.S. Department of Education. The
Commission may be contacted at (312) 440-4653 or 211 East
Chicago Avenue, Chicago, Illinois 60611.

Licensing or Other Certification National Dental Hygiene Board
and the Western Regional Examining Boards for Local Anesthesia,
Restorative Dentistry and Clinical Dental Hygiene. Graduates
eligible for licensure application throughout the U.S. and
an Expanded Practice Certification in Oregon.

Admission Information See lanecc.edu/hp/dental/dental-hygiene
for additional information and the admission packet.

Prerequisites In order to apply for entry, all applicants must com-
plete the following minimum courses with a letter grade of C
or better. Some of these courses have prerequisites. (See course
descriptions.) Other specialized program requirements will be
described in acceptance materials.

The following courses or their equivalent are required in order to
apply to the program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 112</td>
<td>Cell Biology for Health Occupations</td>
<td>4</td>
</tr>
<tr>
<td>CH 112</td>
<td>Chemistry for Health Occupations</td>
<td>4</td>
</tr>
<tr>
<td>WR 121</td>
<td>Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>BI 231</td>
<td>Human Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>BI 232</td>
<td>Human Anatomy and Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>FN 225</td>
<td>Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>MTH 052</td>
<td>Math for Introductory Physical Sciences</td>
<td>4</td>
</tr>
<tr>
<td>SOC 204</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 205</td>
<td>Social Stratification and Systems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 206</td>
<td>Institutions and Social Change</td>
<td>3</td>
</tr>
<tr>
<td>BI 107</td>
<td>Dental Infection Control and Safety</td>
<td>1</td>
</tr>
<tr>
<td>BI 243A</td>
<td>Oral Roentgenology 1</td>
<td>1</td>
</tr>
<tr>
<td>BI 243B</td>
<td>Oral Roentgenology 2</td>
<td>1</td>
</tr>
<tr>
<td>BI 113</td>
<td>Dental Anatomy and Histology</td>
<td>2</td>
</tr>
<tr>
<td>BI 118A</td>
<td>Clinical Dental Hygiene 1</td>
<td>4</td>
</tr>
<tr>
<td>BI 118B</td>
<td>Clinical Dental Hygiene 1 Lab</td>
<td>2</td>
</tr>
<tr>
<td>BI 228</td>
<td>Oral Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>BI 243A</td>
<td>Oral Roentgenology 1</td>
<td>2</td>
</tr>
<tr>
<td>BI 243B</td>
<td>Oral Roentgenology 2 Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 39

Cooperative Education (Co-op) Co-op offers students college
credit and a grade for on-the-job work experience related to
their educational and career goals. Through Co-op, students
connect theory and practice, develop skills, expand career
knowledge, and make contacts for the future. Work schedules
and work sites vary. Only students who have received their offi-
cial program acceptance letter or who are currently enrolled in
the dental hygiene program may take Dental Hygiene Co-op.
Contact Leslie Greer, Dental Hygiene Co-op Coordinator, Bldg.
4, Rm. 135, 541.463.5638, greer@lanecc.edu

Counseling and Advising For assistance in meeting program or
application requirements, please go to Counseling and Advis-
ing in Building 1, Room 103, or e-mail DHP@lanecc.edu

Course Requirements
1. Students must be accepted in Dental Hygiene Program to enroll
in DH courses.
2. All courses listed below must be passed with a letter grade of
“C” or better.

First Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 107</td>
<td>Dental Infection Control and Safety</td>
<td>1</td>
</tr>
<tr>
<td>DH 113</td>
<td>Dental Anatomy and Histology</td>
<td>2</td>
</tr>
<tr>
<td>DH 118A</td>
<td>Clinical Dental Hygiene 1</td>
<td>4</td>
</tr>
<tr>
<td>DH 118B</td>
<td>Clinical Dental Hygiene 1 Lab</td>
<td>2</td>
</tr>
<tr>
<td>DH 228</td>
<td>Oral Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>DH 243A</td>
<td>Oral Roentgenology 1</td>
<td>2</td>
</tr>
<tr>
<td>DH 243B</td>
<td>Oral Roentgenology 2 Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 16

Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 119A</td>
<td>Clinical Dental Hygiene 2</td>
<td>3</td>
</tr>
<tr>
<td>DH 119B</td>
<td>Clinical Dental Hygiene 2 Lab</td>
<td>4</td>
</tr>
<tr>
<td>DH 139</td>
<td>Special Needs Dental Patient</td>
<td>2</td>
</tr>
<tr>
<td>DH 229</td>
<td>Oral Pathology for the Dental Hygienist</td>
<td>3</td>
</tr>
<tr>
<td>DH 244A</td>
<td>Oral Roentgenology 2</td>
<td>1</td>
</tr>
<tr>
<td>DH 244B</td>
<td>Oral Roentgenology 2 Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 14

Academic Advising Online
Free online resources are available for ALL majors! moodle
On lanecc.edu, choose the Moodle button. Select Academic
Advising, find your specific major, and follow the instruc-
tions to Login or select Login as a Guest.
Learning Outcomes

• demonstrate troubleshooting and repair procedures of heavy equipment brake systems using industry standard tooling including disassembly, failure analysis, assembly and operation of major components.

• demonstrate troubleshooting and repair procedures of heavy equipment power train systems using industry standard tooling including disassembly, failure analysis, assembly and operation of major components.

• demonstrate troubleshooting, maintenance and repair procedures including: testing, disassembly, failure analysis, assembly and operation using industry standard tooling and equipment, to diagnose diesel electrical systems and components found on highway trucks, off highway vehicles and stationary applications.

• demonstrate troubleshooting, maintenance and repair procedures including: testing, disassembly, failure analysis, assembly and operation using industry standard tooling and equipment, to diagnose diesel engines and components found on highway trucks, off highway vehicles and stationary applications.

Job Openings Projected through 2020

Lane County openings - 17 annually
Statewide openings - 159 annually

Wages
Lane County average hourly - $20.21; average annual - $42,030
Oregon average hourly - $21.16; average annual - $44,020

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

Resident Tuition and Student Fees................................. $10,160
Differential Fees* ........................................... $2,400
Other Course/Program Costs................................... $886
Tools.............................................................. $400
Books and supplies............................................... $1,300

Total Estimate $15,146

* This is the total of all the differential fees attached to Diesel Technology courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Program Accreditation
Association of Equipment Distributors Foundation (AEDF). Membership: Northwest Diesel Industry Council (NDIC) and Oregon Trucking Association (OTA)

Prerequisites
Minimum placement score of 68 in Reading or completion of RD 080 or RD 087 and EL115 or prior college.
A high school diploma or equivalent is recommended for all applicants to this program. See counselor or advisor to learn what entry-level skills are suggested for successful completion of this program.

Admission Information
See lanecc.edu/advtech/ds or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Cooperative Education (Co-op)
Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career
knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Diesel Technology Co-op Coordinator and with instructor consent, a maximum of 18 Co-op credits in DS 280 may be earned in lieu of required Diesel Technology course credits. Contact Mary Clemons, Diesel Technology Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemonsm@lanecc.edu

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All DS, MFG courses and MTH 060 must be completed with a letter grade of “C-” or better.
3. WR 115 and the PE/Health requirement must be completed with a Pass or “C-” grade or better.
4. Arts and Letters choices are listed on the Associate of Applied Science degree page.

Two-Year Associate of Applied Science Degree

First Year Fall
DS 155 Heavy Equipment Hydraulics ....................................... 12
MTH 060 Beginning Algebra or higher mathematics .................. 4
Total Credits 16

Winter
DS 154 Heavy Duty Braking Systems ...................................... 12
WLD 121 Shielded Metal Arc Welding 1 ............................... 4
PE/Health requirement ......................................................... 3
Total Credits 19

Spring

Second Year Fall
DS 256 Diesel and Auxiliary Fuel Systems ............................. 12
MTH 085 Applied Geometry for Technicians or higher mathematics.................. 4
Choice of: ............................................................................ 3-4
MFG 197 Manufacturing Technology .................................. 12
WLD 122 Shielded Metal Arc Welding 2 ............................... 4
Total Credits 19-20

Winter
DS 257 Diesel Electrical Systems ........................................... 12
CS 120 Concepts of Computing: Information Processing or higher computer science................. 4
WLD 143 Wire Drive Welding 1 .......................................... 4
Total Credits 20

Spring

DS 259 Diesel Engines and Engine Overhaul ........................... 12
Arts and Letters requirement .................................................. 3
DS 280 Co-op Ed: Diesel (optional elective) ............................ 12
Total Credits 15-18

First Year Fall
DS 155 Heavy Equipment Hydraulics ....................................... 12
MTH 060 Beginning Algebra or MTH 085 Applied
Geometry for Technicians or higher mathematics.................. 4
Total Credits 16

Winter
DS 154 Heavy Duty Braking Systems ...................................... 12
WLD 121 Shielded Metal Arc Welding 1 ............................... 4
Total Credits 16

Spring

Second Year Fall
DS 256 Diesel and Auxiliary Fuel Systems ............................. 12
Choice of: ............................................................................ 3-4
MFG 197 Manufacturing Technology .................................. 12
WLD 122 Shielded Metal Arc Welding 2 ............................... 4
Total Credits 15-16

Winter
DS 257 Diesel Electrical Systems ........................................... 12
WLD 143 Wire Drive Welding 1 .......................................... 4
Total Credits 16

Spring

DS 259 Diesel Engines and Engine Overhaul ........................... 12
PE/Health elective ................................................................. 3
Total Credits 15

Two-Year Certificate of Completion

Gainful Employment Disclosure

Standard Occupational Classification: 49-3031.00
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Bus and Truck Mechanics and Diesel Engine Specialists
onetonline.org/link/summary/49-3031.00

Or check on these O*Net Related Occupations:
Mobile Heavy Equipment Mechanics, Except Engines onetonline.org/link/summary/49-3042.00

How many students complete the Diesel Technology 2-year Certificate?

Eight students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?

Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

How many jobs are forecast in this occupation between 2010-20?

Lane County: 17 positions
Statewide: 159 positions

What wages are forecast for this occupation?

Lane County average hourly - $20.21; average annual - $42,030
Oregon average hourly - $21.16; average annual - $44,020

How much will the program cost?

(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

Resident tuition and fees .................................................. $12,603
Books, supplies, program costs ........................................ $2,456
On-Campus room and board ............................................. Not offered
Total Estimate $15,059

What’s included?
Program Costs: lanecc.edu/advtech/program-costs

What is the median loan debt incurred by students who completed the program in 2012?

Federal Loans ........................................................................ Not disclosed
Institutional financing .......................................................... Not disclosed
(For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than ten graduates.)

First Year Fall
DS 155 Heavy Equipment Hydraulics ....................................... 12
MTH 060 Beginning Algebra or MTH 085 Applied
Geometry for Technicians or higher mathematics.................. 4
Total Credits 16

Winter
DS 154 Heavy Duty Braking Systems ...................................... 12
WLD 121 Shielded Metal Arc Welding 1 ............................... 4
Total Credits 16

Spring
Diesel Technology: Lift Truck/Material Handling Equipment Technician Option

Two-Year Associate of Applied Science Degree

(This curriculum is under review during academic year 2013-14. See an advisor or counselor for current information.)

Drafting

Offered by the Advanced Technology Division, 541.463.5380

Two-Year Associate of Applied Science Degree

One-Year Certificate of Completion

Purpose To prepare students for careers in architectural and mechanical drafting. The profession requires attention to detail and the ability to learn mathematical, visual, and communication skills. Architectural Drafters may work for a residential designer, a structural engineer, an architect, a cabinet shop, or a construction firm. Mechanical Drafters may work in the manufacture of electronics, precision sheet metal, heavy equipment, steel fabrication, process piping, and plastics.

Learning Outcomes The graduate of the one-year program will:

• demonstrate basic competence in the use of at least one CAD software program. (Setup a drawing, create and modify text and geometry, use associative dimensioning correctly, create, store, and use blocks or symbols, manage object properties including linetype and layer, create objects in three dimensions, and print or plot drawings using a correct scale.)
• demonstrate basic graphical literacy.
• explain basic standard practices in architectural and mechanical drafting.
• interpret the concepts of a problem-solving task and translate them into mathematical language, and solve using mathematical operations.

In addition to the above outcomes, the graduate of the two-year program will:

• use graphic principles in the solution of problems relating to drafting and/or design.
• access information from public libraries, research libraries, online sources, appropriate codes and standards, professional organizations, and vendor catalogs.
• produce drawings in accordance with industry standards, e.g., ANSI/ASME, AIA, building codes.

Job Openings Projected through 2020

Lane County openings - 9 annually

Statewide openings - 117 annually

Wages

Lane County average hourly - $19.42 to $26.73; average annual - $40,394 to $55,596

Oregon average hourly - $22.14 to $26.21; average annual - $40,058 to $54,508

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

Resident Tuition and Student Fees $8,828

Other Course/Program Costs $360

Tools $25

Books and supplies $1,250

Total Estimate $10,463

Drafting course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Prerequisites Minimum placement score of 68 in Reading OR completion of RD 080 OR RD 087 And EL115 OR prior college. A high school diploma or equivalent is recommended for all applicants to this program. Basic computer literacy skills are a prerequisite to any CAD course.

Admission Information See lanecc.edu/advtech/dft or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Cooperative Education (Co-op) Co-op offers drafting students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Contact Tamara Pinkas, Drafting Co-op Coordinator, Blkg. 19, Rm. 231D, 541.463.5011, pinkast@lanecc.edu

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. PE/Health requirement, WR 121, and DRF 206 must be completed with a grade of “Pass” or “C-” or better.
3. Human Relations and Health/PE choices are listed on the Associate of Applied Science degree page.
4. All DRF and CST courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.

Two-Year Associate of Applied Science Degree

First Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRF 142</td>
<td>Graphic Concepts</td>
<td>4</td>
</tr>
<tr>
<td>DRF 167</td>
<td>CAD 1</td>
<td>4</td>
</tr>
<tr>
<td>CS 120</td>
<td>Concepts of Computing: Information Processing</td>
<td>4</td>
</tr>
<tr>
<td>MTH 075</td>
<td>Applied Algebra for Technicians or higher mathematics</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 14

Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CST 122</td>
<td>Construction Codes</td>
<td>2</td>
</tr>
<tr>
<td>DRF 168</td>
<td>CAD 2</td>
<td>4</td>
</tr>
<tr>
<td>DRF 208</td>
<td>Residential Buildings</td>
<td>4</td>
</tr>
<tr>
<td>Human Relations Requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MTH 085</td>
<td>Applied Geometry for Technicians or higher</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 17

Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRF 121</td>
<td>Mechanical Drafting</td>
<td>4</td>
</tr>
<tr>
<td>DRF 137</td>
<td>Architectural Drafting - Plans</td>
<td>4</td>
</tr>
<tr>
<td>DRF 206</td>
<td>Co-op Ed: Drafting Seminar</td>
<td>2</td>
</tr>
<tr>
<td>DRF 245</td>
<td>Solid Modeling</td>
<td>3</td>
</tr>
<tr>
<td>WR 121</td>
<td>Introduction to Academic Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 17

Second Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRF 205</td>
<td>Drafting: Structures</td>
<td>4</td>
</tr>
<tr>
<td>DRF 210</td>
<td>Commercial Buildings</td>
<td>4</td>
</tr>
<tr>
<td>DRF 232</td>
<td>Mechanical Design</td>
<td>4</td>
</tr>
<tr>
<td>DS 155</td>
<td>Heavy Equipment Hydraulics</td>
<td>1</td>
</tr>
<tr>
<td>PE/Health requirement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 16

Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRF 207</td>
<td>Drafting: Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>DRF 220</td>
<td>Building Information Modeling</td>
<td>4</td>
</tr>
<tr>
<td>DRF 233</td>
<td>Geometric Tolerancing</td>
<td>4</td>
</tr>
<tr>
<td>WR 227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 16
One-Year Certificate of Completion

Gainful Employment Disclosure

Standard Occupational Classification: 17-3011.01
Go to the Department of Labor's O*Net website for a profile of this occupation:
Architectural Drafters
onetonline.org/link/summary/17-3011.01
Or check on these O*Net Related Occupations:
Civil Drafters onetonline.org/link/summary/17-3011.02
Mechanical Drafters onetonline.org/link/summary/17-3012.00

How many students complete the Drafting 1-year Certificate?
Twelve students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Approximately 8 percent completed in the number of terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to be better prepared for college level courses, affecting this narrowly defined on-time completion rate.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 9 positions
Statewide: 117 positions

What wages are forecast for this occupation?
Lane County average hourly - $19.42 to $26.73; average annual - $40,394 to $55,596
Oregon average hourly - $22.14 to $26.21; average annual - $40,058 to $54,508

How much will the program cost? (Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>13</td>
</tr>
<tr>
<td>MTH 075 Applied Algebra for Technicians</td>
<td></td>
</tr>
<tr>
<td>or higher mathematics</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 13

Early Childhood Education

Offered by the Child and Family Education Department, 541.463.5517

Two-Year Associate of Applied Science Degree

One-Year Certificate of Completion

Career Pathway Certificate of Completion, Guidance and Curriculum

Career Pathway Certificate of Completion, Infant and Toddler

Purpose
To prepare students for successful careers as childcare professionals in a variety of settings such as for-profit and non-profit childcare centers, on-site childcare centers in the business community, university and community college laboratory programs, government sponsored programs such as Head Start and Even Start and in a family childcare business.

Learning Outcomes
The graduate will:

- plan and carry out developmentally appropriate curriculum activities for children ages infant through kindergarten.
- choose age appropriate guidance methods to enhance the child’s development of self-worth, self-esteem, problem-solving skills and abilities for day-to-day life.
- design and effectively use environments that maximize children’s abilities to make choices, explore personal power, develop empathy and caring behaviors, learn responsible roles for the classroom and appropriate relationships with others.
- assist parents with skill building in the areas of guidance, nutrition, and appropriate activity choices, and work effectively in a variety of roles with children and families.
- facilitate the operation of childcare programs ranging from working with children and families to administration and management.
- develop research skills and confidence to access information using print and computer resources, specifically the Internet, the library’s on-line catalog and basic library reference sources.
- master application of basic mathematics to use in everyday life and business transactions, including measurement, introduction of probability and statistics, reading graphs and tables, and signed numbers.

Costs
( Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition.)

<table>
<thead>
<tr>
<th>Cost</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident Tuition and Student Fees</td>
<td>$8,650</td>
</tr>
<tr>
<td>Other Course/Program Costs</td>
<td>$150</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$1800</td>
</tr>
<tr>
<td>Total Estimate</td>
<td>$10,600</td>
</tr>
</tbody>
</table>
Lane County average hourly wage - $10.16; average annual - $21,127
Oregon average hourly wage - $10.63; average annual - $22,111

Teacher Assistant Job Openings Projected through 2020
Lane County openings - 74 annually
Statewide openings - 636 annually
Lane County average hourly wage - $14.17; average annual - $28,911
Oregon average hourly wage - $14.30; average annual - $29,165

Preschool Teacher Job Openings Projected through 2020
Lane County openings - 22 annually
Statewide openings - 281 annually
Lane County average hourly wage - $13.78; average annual - $26,646
Oregon average hourly wage - $13.78; average annual - $26,578

Licensing or Other Certification Exams Required Individuals are not issued a license, but must meet requirements as defined by the State of Oregon Child Care Division.

Admission Information Application information is available from the Early Childhood Education program coordinator Jean Bishop, Bldg. 24, Rm. 121, 541.463.5287 and Enrollment and Student Financial Services, as well as online at lanecc.edu/ece.

Cooperative Education (Co-op) Co-op offers sixth term Early Childhood Education students college credit and a grade for on-the-job work experience related to their educational and career goals. Through a cooperative education learning site, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Students are required to do one term of ED280EC for five credits to earn the AAS degree; they are eligible to enroll after they have reached sixth-term standing in the program. Contact Kathleen Lloyd, Early Childhood Ed Co-op Coordinator, Bldg. 27, Rm. 413, 541.463.5527, lloydk@lanecc.edu

Visit the web lanecc.edu/ece for detailed information about the program and lab school.

Course Requirements
1. All ANTH, CG, ECE, ED, FN, HDFS, and directed electives must be taken for a grade, not P/NP, and must be passed with a "C-" or better to fulfill program requirements.
2. MTH course must be taken for a grade, not P/NP.
3. See course descriptions for prerequisite information.
4. For choices in Foundational Skills and Discipline Studies, see AAS degree description, page 44.

Academic Advising Online
Free online resources are available for ALL majors! [moodle]
On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Learning Outcomes  The graduate will:

- choose age appropriate guidance methods to enhance the child’s development of self-worth, self-esteem, problem-solving skills and abilities for day-to-day life.
- design and effectively use environments that maximize children’s abilities to make choices, explore personal power, and develop empathy and caring.
- master application of basic mathematics to use in everyday life and business transactions, including measurement, introduction of probability and statistics, reading graphs and tables, and signed numbers.

Gainful Employment Disclosure

Standard Occupational Classification: 25-2111.00
Go to the Department of Labor’s O*Net website for a profile of this occupation:

Preschool Teachers, Except Special Education
onenline.org/link/summary/25-2111.00
Or check on these O*Net Related Occupations:
Kindergarten Teachers, Except Special Education
onenline.org/link/summary/25-2120.00

How many students complete the Early Childhood Education 1-year Certificate?
Twenty-six students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Approximately 9 percent completed in the number of terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to be better prepared for college level courses, affecting this narrowly defined on-time completion rate.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 22 positions
Statewide: 281 positions

What wages are forecast for this occupation?
Lane County average hourly - $13.78; average annual - $28,646
Oregon average hourly - $12.77; average annual - $26,578

How much will the program cost?
(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Resident tuition and fees ................................................. $4,445
Books, supplies, program costs .................................. $975
On-Campus room and board........................................ Not offered
Total Estimate $5,420

What’s included?
Program Costs: lanec.edu/esfs/credit-fees-and-expenses

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans................................................................. $2,311
Institutional financing...................................................... $948

Course Requirements
1. All ANTH, CG, ECE, ED, FN, HDFS, and directed electives must be taken for a grade, not P/NP, and must be passed with a “C-“ or better to fulfill program requirements.
2. MTH course must be taken for a grade, not P/NP.
3. See course descriptions for prerequisite information.

WR 115 Introduction to College Writing  or other AAS equivalent........................................ 4
Total Credits 15

Winter
ECE 105 Health and Safety Issues in Early Childhood Ed.. 2
ECE 110 Observing Children’s Behavior ......................... 1
ECE 140 Theory and Supervised Teaching 1 .................. 3
ECE 150 Creative Activities for Children ....................... 3
ECE 170 Infants and Toddlers Development .................. 4
MTH 025 Basic Math Applications or higher level mathematics .............................................. 3
Total Credits 16

Spring
ECE 160 Exploring Early Childhood Curriculum .............. 4
ECE 240 Theory and Supervised Teaching 2 .................. 4
FN 230 Family, Food and Nutrition ............................. 3
Choice of:.................................................................... 3-4
ANTH 103 Cultural Anthropology
CG 203 Human Relations at Work
Directed elective (refer to list below).............................. 3
Total Credits 17-18

Guidance and Curriculum

Career Pathway Certificate of Completion
Purpose Prepares graduates to work as early childhood education teaching assistants.

Learning Outcomes The graduate will:

- analyze teaching experiences and goals, then match planning to philosophy of teaching and educational practice.
- explain theories of development relating to the early years.
- express and understand the use of developmentally appropriate guidance.
- identify developmental characteristics and developmental needs of young children in the areas of physical, intellectual, emotional, social and language development.

Course Requirements All ECE courses must be taken for a grade, not P/NP, and must be passed with a “C-“ or better to fulfill program requirements.

Fall
ECE 120 Intro to Early Childhood Education ................. 2
ECE 130 Guidance of Young Children ......................... 3
ECE 140 Theory and Supervised Teaching 1 ................. 3
ECE 150 Creative Activities for Children ..................... 3
ECE 160 Exploring Early Childhood Curriculum ........... 4
ECE 210 Applying Early Childhood Curriculum ............ 4
Total Credits 19

Academic Advising Online
Free online resources are available for ALL majors! On lanec.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Infant and Toddler

Career Pathway Certificate of Completion

Purpose Prepares graduates to plan quality and developmentally appropriate environments for infants and toddlers.

Learning Outcomes The graduate will:
- choose suitable equipment and materials for infants and toddlers.
- express and understand the use of developmentally appropriate guidance.
- identify developmental characteristics and developmental needs of infants and toddlers in the areas of physical, intellectual, emotional, social and language development.
- identify state rules and regulations which govern certification of infant and toddler centers.

Course Requirements All ECE and HDFS courses must be taken for a grade, not F/NP, and must be passed with a “C-“ or better to fulfill program requirements.

First Year Fall
- ECE 130 Guidance of Young Children .......................... 3
- ECE 140 Theory and Supervised Teaching 1 .................. 3
- ECE 170 Infants and Toddlers Development .................... 4
- ECE 250 Infant and Toddler Environments ....................... 3
- HDFS 226 Child Development .................................... 3

Total Credits 16

Electrical Apprenticeship Technologies

Offered by the Advanced Technology Division, 541.463.5380

Associate of Applied Science Degree, Electrician Apprenticeship Technologies

Certificate of Completion, Electrician Apprenticeship Technologies

Certificate of Completion, Limited Electrician Apprenticeship Technologies

Purpose To provide a structured system of training in the electrician trade or occupation leading to certification and journey-level status, only for apprentices who are sponsored by individual employers, accepted by a Joint Apprenticeship Training Committee, and registered with the State of Oregon Bureau of Labor and Industries.

Learning Outcomes The graduate will:
- perform the duties and responsibilities of the electrician trade/occupation.
- apply theory to electrical wiring.
- demonstrate and use industry safety standards.
- develop attitudes conducive to improve customer relations skills in the electrician trade.
- develop communication and critical thinking skills necessary for job advancement.
- use appropriate library and information resources to research professional issues and support lifelong learning.
- access library, computing, and communications services, and appropriately select information and data from regional, national, and international networks.
- represent, analyze and determine rules for finding patterns relating to linear functions, non-linear functions and arithmetic sequences with tables, graphs, and symbolic rules.
- adapt to new job requirements to qualify for advancement in becoming lead supervisors.
- repair and install electrical wire devices according to licensure regulations to meet National Electrical Code and Oregon Building Codes Division for Inside Wire Electrician, Limited Energy Technician-License A and License B, Limited Maintenance Electrician, and Manufacturing Plant Electrician.
- complete 4000-8000 hours State of Oregon-approved on-the-job-training.

Job Openings Projected through 2020
- Lane County openings - 24 annually
- Statewide openings - 381 annually

Wages
- Lane County average hourly - $28.46; average annual - $59,184
- Oregon average hourly - $32.73; average annual - $68,074

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
- Resident Tuition and Student Fees............................... $10,325
- Books and supplies.................................................... $1,350

Total Estimate $11,675

Electrician Apprenticeship Technologies course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses. Costs of books and tools for the related training classes in the electrician programs vary with each individual trade/occupation.

Apprentice Wages Although wages vary, the average starting wage of an apprentice is about 50 percent of a journey worker’s rate of pay. Apprentices usually earn a five-percent raise every six months if training and school performance is satisfactory. Check the Bureau of Labor and Industries website: boli.state.or.us

Program Certification An apprenticeship “Award of Completion” issued by the Oregon Bureau of Labor and Industries Apprenticeship and Training Division certifies that an individual has been trained in all aspects of an occupation and has met the requirements for program completion. This certificate is recognized throughout Oregon and industry-wide as a valid indicator of high quality, standardized training, and it provides on-the-job training documentation for community college credit.

In addition, The Oregon community college Electrician Apprenticeship Technologies pathway provides statewide transfer opportunities, laddered certificates of completion, and an optional transfer path into Oregon Institute of Technology Bachelor of Science degree in Operations Management. The Electrician Apprenticeship Technologies pathway includes an advising guide with a set of recommended courses that satisfy both the AAS degree and the Oregon Transfer Module (OTM). Students who complete the recommended set of OTM courses may apply for 45 credits of guaranteed block transfer to any other community college or Oregon University System institution.

Licensing or Other Certification Electrician trades require successful completion of trade-specific licensure examinations through the Oregon Building Codes Division.

Pre-requisites Minimum placement scores – Reading 68, Writing 64, and Math parts A, B, C with 7/10 score. Note: See the
counselor or advisor to obtain the suggested entry-level skills for successful completion of these programs.

Admission Information Students must be registered apprentices with the State of Oregon Bureau of Labor and Industries and accepted by a Joint Apprenticeship Training Committee. Selection to the program is by a point system from a pool of qualified applicants. Information on the point system is available at the Oregon Bureau of Labor and Industries website: boli.state.or.us. In most cases minimum qualifications to begin an apprenticeship include a minimum age of 18 years, a high school diploma with a GPA of 2.0 or higher or GED, and a minimum of a ‘C’ grade for one year of high school algebra (or equivalent).

Electrician Apprenticeship Technologies

Associate of Applied Science

To earn the degree, a student must:

• complete 4000-8000 hours State of Oregon-approved on-the-job training and provide a State of Oregon Apprenticeship Training Journey-level card or BOLI-ATD Certificate of Completion.
• demonstrate an equivalency of 90 credit hours, with a minimum of 24 credits at Lane, including the last term at Lane.
• complete all requirements for an AAS degree as listed below.
• earn a cumulative grade point average above 2.0 at Lane or transfer credits earned at other regionally accredited colleges or universities.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All courses must be completed with a letter grade of “C” or better.

AAS requirements

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<thead>
<tr>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>3</td>
<td>WR 115W Intro to College Writing: Workplace Emphasis or higher-level writing</td>
</tr>
<tr>
<td>4</td>
<td>MTH 060 Beginning Algebra or higher-level math</td>
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<td>3</td>
<td>PE/Health Requirement</td>
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<td>Human Relations requirement</td>
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<tr>
<td>3</td>
<td>Choice of: Science/Math/Computer Science requirement</td>
</tr>
<tr>
<td>3</td>
<td>Arts and Letters requirement</td>
</tr>
<tr>
<td></td>
<td>Science/Math/Computer Science requirement</td>
</tr>
<tr>
<td>22</td>
<td>Journeyman card from Oregon Bureau of Labor and Industries Apprenticeship and Training Division</td>
</tr>
</tbody>
</table>

Electrician Core-Related Training

(Choice of one of the following trades) 21-48

Limited Maintenance Electrician (21-22 credits)

| 4       | ET 129 Electrical Theory 1 |
| 4       | ET 130 Electrical Theory 2 |
| 4       | ET 229 Motors 1 |
| 4       | ET 230 Motors 2 |
| 2-3     | APR 220 Electrical Code and Exam Prep or |
| 3       | APR 228 Apprenticeship Blueprint Reading |

Limited Energy Technician License B (26-27 credits)

| 4       | APR 101A Trade Skills Fundamentals |
| 4       | APR 140 Electrical System Installation Methods |
| 4       | APR 141 Limited Voltage Electrical Circuits |
| 4       | APR 142 Testing Equipment and Specialized Applications |
| 4       | APR 143 Limited Voltage Cabling |
| 4       | APR 144 System Planning and Maintenance |

Limited Energy Technician License A (38-39 credits)

| 4       | APR 101A Trade Skills Fundamentals |
| 4       | APR 140 Electrical System Installation Methods |
| 4       | APR 141 Limited Voltage Electrical Circuits |
| 4       | APR 142 Testing Equipment and Specialized Applications |
| 4       | APR 143 Limited Voltage Cabling |
| 4       | APR 144 System Planning and Maintenance |
| 4       | APR 220 Electrical Code and Exam Prep |
| 4       | APR 220 Electrical Code and Exam Prep |
| 4       | APR 220 Electrical Code and Exam Prep |
| 3       | APR 228 Apprenticeship Blueprint Reading |
| 4       | ET 129 Electrical Theory 1 |
| 4       | ET 130 Electrical Theory 2 |
| 5       | ET 229 Motors 1 |
| 4       | ET 230 Motors 2 |
| 4       | ET 234 Programmable Controllers 1 |
| 4       | ET 235 Programmable Controllers 2 |
| 5       | WLD 121 Shielded Metal Arc Welding |

Manufacturing Plant Electrician (36-43 credits)

| 5       | APR 130 Electrical Principles |
| 5       | APR 131 Electrical Principles/Residential Wiring |
| 4       | APR 132 Electrical Residential Wiring Lab |
| 5       | APR 133 Electrical Generators, Transformers, and Motors 1 |
| 5       | APR 134 Electrical Generators, Transformers, and Motors 2 |
| 3       | APR 135 Electrical Generators, Transformers, and Motors Lab |
| 2-3     | APR 220 Electrical Code and Exam Prep |
| 2-3     | APR 220 Electrical Code and Exam Prep |
| 2-3     | APR 220 Electrical Code and Exam Prep |
| 5       | APR 225 Electrical Motor Controls |
| 5       | APR 226 Electrical Grounding/Bonding and Blueprint Reading |
| 5       | APR 227 Electrical System Troubleshooting |

Program Electives to complete 90 credits for degree: 0-25

| 4       | APR 101 Trade Skills Fundamentals |
| 4       | APR 105 Residential Wiring |
| 4       | ET 129 Electrical Theory 1 |
| 4       | ET 130 Electrical Theory 2 |
| 4       | ET 234 Programmable Controllers 1 |
| 4       | ET 235 Programmable Controllers 2 |
| 4       | CST 110 Blueprint Reading |
| 4       | CST 111 Construction Orientation and Environment |
| 2       | CST 118 Building Construction |
| 4       | DRF 167 CAD 1 |
| 3       | HE 152 Drugs, Society and Behavior |
| 3       | HE 252 First Aid |
| 4       | MTH 085 Applied Geometry for Technicians |
| 5       | MTH 111 College Algebra |
| 4       | MTH 112 Trigonometry |
| 1-4     | WLD 121 Shielded Metal Arc Welding 1 |

Electrician Apprenticeship Technologies

Certificate of Completion

Students may earn a Certificate of Completion in Electrician Apprenticeship Technologies by successfully completing core related training credits, and completing related instruction in communications, computation, and human relations.

Learning Outcomes Graduates will:

• apply theory to electrical wiring.
• repair and install electrical wire devices according to license regulations to meet NEC and OSC for Inside Electrician,
Limited Energy Technician-License A, and/or Manufacturing Plant Electrician.

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All courses must be completed with a letter grade of “C” or better.

To earn the certificate, student must:
- complete State of Oregon-approved on-the-job training and provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD Certificate of Completion:
  - 6000-Hour BOLI-ATD Trade: Limited Energy Technician—License A
  - 8000-Hour BOLI-ATD Trade: Inside Wire Electrician
  - 8000-Hour BOLI-ATD Trade: Manufacturing Plant Electrician
- complete related instruction credits
- complete core-related training credits
- complete related instruction credits

Total Credits 45-57

Core Related Training requirements (Choice of one of the following trades)

Limited Energy Technician License A (38-39 credits)
- APR 101A Trade Skills Fundamentals .................................. 4
- APR 140 Electrical System Installation Methods ................... 4
- APR 141 Limited Voltage Electrical Circuits.......................... 4
- APR 142 Testing Equipment and Specialized Applications .......... 4
- APR 143 Limited Voltage Cabling........................................... 4
- APR 144 System Planning and Maintenance........................... 4
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 240 Alarm Systems...................................................... 4
- APR 241 Audio and Signaling Systems................................. 4
- APR 242 Limited Voltage System Integration......................... 4

Manufacturing Plant Electrician (36-43 credits)
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 228 Apprenticeship Blueprint Reading ........................... 3
- ET 129 Electrical Theory 1 .............................................. 4
- ET 130 Electrical Theory 2 .............................................. 4
- ET 229 Motors 1.......................................................... 4
- ET 230 Motors 2.......................................................... 4
- ET 234 Programmable Controllers 1................................. 4
- ET 235 Programmable Controllers 2................................. 4
- WLD 121 Shielded Metal Arc Welding............................... 1-4

Inside Wire Electrician (45-48 credits)
- APR 130 Electrical Principles............................................. 5
- APR 131 Electrical Principles/Residential Wiring ................... 5
- APR 132 Electrical Residential Wiring Lab........................... 3
- APR 133 Electrical Generators, Transformers, and Motors 1 ....... 5
- APR 134 Electrical Generators, Transformers, and Motors 2 ....... 5
- APR 135 Electrical Generators, Transformers, and Motors Lab .... 3
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 225 Electrical Motor Controls ..................................... 5
- APR 226 Electrical Grounding/Bonding and Blueprint Reading .... 5
- APR 227 Electrical System Troubleshooting ........................ 3

Limited Electrician Apprenticeship Technologies

Certificate of Completion

Learning Outcomes Graduates will be able to:
- repair or install electrical wire devices according to limited licensure regulations to meet National Electrical Code and Oregon Building Codes Division for Limited Energy Technician—License B, and/or Limited Maintenance Electrician.

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All courses must be completed with a letter grade of “C” or better.

To earn the certificate, student must:
- complete State of Oregon-approved on-the-job training and provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD Certificate of Completion:
  - 6000-Hour BOLI-ATD Trade: Limited Energy Technician—License A
  - 8000-Hour BOLI-ATD Trade: Inside Wire Electrician
  - 8000-Hour BOLI-ATD Trade: Manufacturing Plant Electrician
- complete related instruction credits
- complete core-related training

Core Related Training requirements (Choice of one of the following trades)

Limited Maintenance Electrician (21-22 credits)
- ET 129 Electrical Theory 1 .............................................. 4
- ET 130 Electrical Theory 2 .............................................. 4
- ET 229 Motors 1.......................................................... 4
- ET 230 Motors 2.......................................................... 4
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 228 Apprenticeship Blueprint Reading ........................... 3

Limited Energy Technician License B (26-27 credits)
- APR 101A Trade Skills Fundamentals .................................. 4
- APR 140 Electrical System Installation Methods ................... 4
- APR 141 Limited Voltage Electrical Circuits.......................... 4
- APR 142 Testing Equipment and Specialized Applications .......... 4
- APR 143 Limited Voltage Cabling........................................... 4
- APR 144 System Planning and Maintenance........................... 4
- APR 220 Electrical Code and Exam Prep ............................... 2-3
- APR 228 Apprenticeship Blueprint Reading ........................... 3

Electronic Technology

Offered by the Advanced Technology Division, 541.463.5380

Two-Year Associate of Applied Science Degree

Purpose To provide graduates with the basic principles of electronic theory and the associated lab skills needed for successful work in the electronics industry. A graduate qualifies for entry-level employment as an electronic engineering technician, electronic production technician, electronic instrument technician, industrial electronic technician, or for employment in the military.

Learning Outcomes The graduate will:
- learn systematic methods of problem solving.
- demonstrate the ability to operate electronic test equipment such as digital oscilloscopes, DMM, power supplies and function generators.
- demonstrate the ability to generate and read schematic drawings and apply that knowledge to understand the operation of a physical circuit.
- construct, modify, and test operational multistage digital or analog circuits.
- examine defective circuits, investigate possible causes of the defect, and determine how to troubleshoot and repair the circuit.
- follow the flow of an automated manufacturing process, recognize the transducers used to monitor a process and, using programmable controllers (PLCs), ladder logic, and robotics, create, test and troubleshoot an automated process.
- demonstrate the ability to use a microcontroller and PBASIC software to control electronic circuits.
- assemble and troubleshoot a personal computer.
Purpose


Learning Outcomes

The graduate will:

- evaluate the energy use patterns for residential and commercial buildings and recommend energy efficiency and alternative energy solutions for high energy consuming buildings.
- understand the interaction between energy consuming building systems and make energy consumption recommendations based on that understanding.
- construct energy evaluation technical reports and make presentations for potential project implementation.
- use appropriate library and information resources to research professional issues and support lifelong learning.
- access library, computing and communications services, and obtain information and data from regional, national and international networks.
- collect and display data as lists, tables and plots using advanced software applications.

Emergency Medical Technician – See “Paramedicine”

Energy Management Technician

Offered by the Institute of Sustainable Practices, 541.463.6160

Two-Year Associate of Applied Science Degree

Two-Year Associate of Applied Science Options

Renewable Energy Technician

Building Controls Technician

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. MTH 095 and WR 121 must be completed with a grade of “Pass” or “C-” or better.
3. All ET and ENGR courses and MTH 065 must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.
4. PE/Health and Human Relations requirement choices are listed on the Associate of Applied Science degree page.

First Year

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<td>ET 121 Electrical Theory 1</td>
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<td>MTH 095 Intermediate Algebra or higher</td>
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<tr>
<td>CS 120 Concepts of Computing: Information Processing or higher computer science course</td>
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Winter

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<td>ET 130 Electrical Theory 2</td>
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<td>ET 145 Semiconductor Devices 1</td>
<td>4</td>
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<td>ET 151 Digital Electronics 1</td>
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<tr>
<td>MTH 095 Intermediate Algebra or higher</td>
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Spring

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<td>ET 146 Semiconductor Devices 2</td>
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<td>ET 152 Digital Electronics 2</td>
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<td>WR 121 Introduction to Academic Writing</td>
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Second Year

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<td>ET 229 Motors 1</td>
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<td>ET 234 Programmable Controllers 1</td>
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<tr>
<td>ET 239 Microprocessor Applications</td>
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<td>ET 247 Linear Circuits</td>
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Winter

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<td>ET 225 Programmable Controllers 2</td>
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<td>ET 230 Motors 2</td>
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<tr>
<td>ENGR 280E Co-op Ed: Electronic Technology</td>
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<td>Human Relations requirement</td>
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Spring

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<td>ET 226 Programmable Controllers</td>
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<td>ET 281 Radiotelephone</td>
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<tr>
<td>ET 287 Microcomputer Hardware</td>
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<tr>
<td>WR 227 Technical Writing</td>
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<tr>
<td>Total Credits</td>
<td>16</td>
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</table>
appropriate technology (e.g., graphing calculators, computer software).
  • develop and evaluate inferences and predictions that are based on collected data.
  • read and analyze building blueprints including floor, mechanical, and electrical plans.
  • interpret the concepts of a problem-solving task, and using mathematics, translate concepts into energy related projects.

The graduate of the Renewable Energy Technician Option will also:
  • appropriately size and recommend renewable energy system types for particular situations.
  • understand and put into practice the installation protocol for Photovoltaic (PV) and Solar Domestic Hot Water (thermal) Systems.
  • determine appropriate site solar systems using contemporary siting technology.
  • understand local, state, and federal jurisdiction codes related to solar PV and Thermal installation.
  • become familiar with the tools, technology, and software used in the design and installation of solar PV and Solar thermal systems.

The graduate of the Building Controls Technician Option will also:
  • understand control system management software.
  • diagnose and troubleshoot existing building control systems.
  • become familiar with modules and electronics commonly used to implement building automation.
  • analyze a variety of commercial HVAC and lighting systems from a controls perspective.

Employment Trends Employment opportunities in the Energy Management Industry are excellent. Students must consider the entire Western United States when seeking employment, as those willing to relocate will have greater employment opportunities.

Wages
Energy Management: $38,000-45,000 annually.
Renewable Energy Technician: $25,000-35,000 annually, depending on region.
Building Controls Technician: $35,000-45,000.

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
Resident Tuition and Student Fees........................................ $10,227
Other Course/Program Costs............................................. $1,800
Estimated annual cost....................................................... $12,027
* Subject to change without notice.

Admission Information Roger Ebbage, Bldg. DCA, Rm. 412A, ebbager@lanecc.edu, Ginny Young, Bldg DCA/406, youngg@lanecc.edu. This is a limited enrollment program. Students must apply to the program by completing an Energy Program application form. Applicants must have completed Math 065 or 070 and are required to attend an orientation meeting the first week of August prior to starting the program.

Accreditation Awarded Institute for Sustainable Power Quality accreditation credential from the Interstate Renewable Energy council, International Standard #0102,1 for accreditation and certification of renewable energy training programs and instructors.

Cooperative Education (Co-op) Co-op is a required and important part of the Energy Management program. It provides relevant field experience that integrates theory and practice while providing opportunities to develop skills, explore career options, and network with professionals and employers in the field. Students must complete six Co-op credits for the AAS degree. Students may use up to eighteen Co-op credits toward the degree requirements. Contact Gerry Meenaghan, Cooperative Education, Bldg. 19, Rm. 231A, 541.463.5203.

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. Instructor permission is required for all Physics and NRG courses.
3. MTH 111 must be completed by the end of the first year.
4. NRG 111, NRG 141 and NRG 142 contain computation instruction to meet industry requirements.
5. Health/PE requirement, Directed Electives, WR 121, and WR 227 may be taken any term.

First Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>WR 121 Introduction to Academic Writing</td>
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Second Year

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<td>NRG 122 Commercial Air Conditioning Systems Analysis</td>
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<td>NRG 112 Commercial Energy Use Analysis</td>
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## Renewable Energy Technician Option

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<td>NRG 159 Solar Thermal Design</td>
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<td>WR 227 Technical Writing</td>
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<tbody>
<tr>
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<td>NRG 182 Commercial HVAC Controls</td>
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<td>NRG 181 Direct Digital Controls 1</td>
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### Second Year Fall

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<table>
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<td>NRG 183 Controls Retuning and Troubleshooting</td>
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### Directed Electives

- DRF 167 CAD 1
- DRF 168 CAD 2
- BT 223 MS EXCEL for Business - Expert
- SPAN 101 Spanish, First-Year
- SPAN 102 Spanish, First-Year
- BA101 Introduction to Business
- ENVS184 Global Climate Change
- PS297 Environmental Politics
- PSY201 General Psychology
- SP100 Basic Communication
- SP105 Listening and Critical Thinking
- SP111 Fundamentals of Public Speaking
- SP112 Persuasive Speech
- SP218 Interpersonal Communication
- WATR221 Water Mechanical Systems
- WATR105 Water Conservation: Residential
- WATR202 Fostering Sustainable Practices
- WATR215 Integrated Water Management
- NRG 280 Coop Ed

### First Year Fall

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>NRG 113 Building Energy Simulations</td>
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<td>NRG 142 Energy Accounting</td>
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<tr>
<td>NRG 141 Energy Investment Analysis</td>
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<td>NRG 122 Commercial Air Conditioning stems Analysis</td>
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<tr>
<td>NRG 185 Lighting Controls</td>
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<td>CS 233P Intermediate Programming: Python</td>
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### Winter

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</table>
Exercise and Movement Science

Offered by the Health, Physical Education and Athletics Division, 541.463.5545

Two-Year Associate of Applied Science Degree, Exercise and Movement Science

Two-Year Certificate of Completion, Fitness Specialist Level 2

One-Year Certificate of Completion, Fitness Specialist Level 1

Career Pathways Certificate

Group Exercise Instructor

Purpose The Purpose of the 2-year AAS and Fitness Specialist Level 2 Certificate is to prepare students for various careers in the fitness industry, including personal training, group exercise instruction, coaching, athletic training, pre-physical therapy, wellness coaching, and recreation management.

Learning Outcomes The graduate will:

- demonstrate excellent interpersonal skills in the areas of leadership, motivation, management, and communication.
- understand and apply basic science information from the fields of biology, chemistry, and physics as they relate to the exercise science field.
- understand and apply advanced exercise principles related to applied kinesiology, physiology, injury prevention, conditioning, resistance training, and functional training in order to create responsive, adaptive, and personalized exercise programs for a diverse clientele.
- understand, synthesize, and apply nationally recognized standards for fitness and health and be able to communicate the benefits and precautions associated with exercise.
- understand, analyze and apply behavior modification strategies to enhance exercise and health behavior change with clients.
- analyze and administer various fitness assessments including the measurement of cardiovascular endurance, body composition, flexibility, muscular strength and endurance, power, speed, and balance in both a laboratory setting and a gym or health club setting.
- evaluate, design and demonstrate safe and effective exercise programs for groups or individuals who are apparently healthy or modify exercise programs to enhance participation and meet the needs of those with medically controlled diseases under the care and supervision of a physician.
- analyze, synthesize, evaluate, and utilize appropriate library and information resources to apply current fitness industry research and support lifelong professional education.
- apply and interpret advanced algebraic formulas to fitness assessment data and exercise programming and critically analyze results and training implications.
- respond to the needs of a diverse clientele and demonstrate inclusive practices.
- understand and evaluate current trends in the fitness industry and be able to provide responsive and timely programming and services to serve the health and fitness needs of individuals in their workplace, community, and the nation.
- demonstrate excellent leadership abilities, interpersonal communication skills, organizational and presentation skills and other necessary professional qualities demanded of health and fitness professionals in the workforce.
- understand and demonstrate professional scope of practice and role within the health and fitness field and the allied health care system and practice appropriate and ethical professional conduct.
- identify and communicate the unique benefits of group exercise in the health and fitness industry.

Job Openings Projected through 2020

Lane County openings - 9 annually

Statewide openings - 16 annually

Wages

Lane County average hourly - $16.00; average annual - $33,277

Oregon average hourly - $18.01; average annual - $37,451

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

Resident Tuition and Student Fees........................................ $9,275

Other Course/Program Costs........................................... $135

Books and supplies......................................................... $1,050

Total Estimate $10,460

Exercise and Movement Science course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses. Costs related to obtaining National Certification post-graduation range from $200-$500 per certification.

Program Certification The American College of Sports Medicine endorsed the curriculum for Lane Community College’s Associate of Applied Science program. This curriculum covers the knowledge, skills, and abilities expected of an ACSM Health/Fitness Specialist®. This curriculum has been reviewed for the educational content and has been endorsed by ACSM.

Admission Contact the Health and PE department for Program information sheets and application packets, or see: lanecc.edu/healthpe/exercise-and-movement-science-program

Program requirements In addition to completing all required coursework and meeting college graduation requirements, students must meet the following criteria for program completion:

- attend a mandatory program orientation before fall term of the student’s first year in the program.
- earn letter grade of “C” or higher and earned accumulative G.P.A. of 3.0 or higher in all program core courses.
- complete all required Cooperative Education credits (10 credit requirement). Details will be provided on required sites.
- abide by and uphold all program and college expectations and responsibilities.
- receive acceptable evaluations from all program instructors.
- receive acceptable evaluations from all Cooperative Education work experience supervisors and Cooperative Education coordinators.
- attend an exit interview with program coordinator.

Course Requirements

1. All EXMS courses must be passed with a letter grade of “C” or better.

2. All PE 280 courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C” or better to satisfy program requirements.

Cooperative Education (Co-op) Cooperative Education internships provide job-related experiences and are an integral component of the program. Students will begin by completing required on-campus internships in the Fitness Education Center (2 credits required) during their first two terms in the program.

Academic Advising Online

Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Upon successful completion ("C" letter grade or higher) of all core classes during Fall and Winter term of the first year and Co-op credits in the Fitness Education Center, students are then eligible to start completing required Co-op credits in other areas (see Program Coordinator for approved list and requirements). Students may also begin to apply for a variety of on-campus and off-campus internships in various fitness disciplines to fulfill the 6 remaining elective Co-op credits. More details and direction will be given to students regarding required and optional internship sites. Students are encouraged to choose a variety of sites. Maximum credit limits apply in each area. For more information contact: Sue Thompson, Bldg. 5, Rm. 227 541.463.5735, thompsons@lanecc.edu; or Kathleen Seeley, Bldg. 5, Rm. 236 541.463.5573, seeleyk@lanecc.edu.

Program Coordinator Marisa Hastie, Bldg. 5, Rm. 221, 541.463.5552, hastiem@lanecc.edu

Exercise and Movement Science

Fitness Specialist Level 2

Associate of Applied Science Degree

Two-Year Certificate of Completion

Gainful Employment Disclosure

Standard Occupational Classification: 39-9031.00

Go to the Department of Labor’s O*Net website for a profile of this occupation:

Fitness Trainers and Aerobics Instructors

onetonline.org/link/summary/39-9031.00

Or check on these O*Net Related Occupations:

Recreation Workers onetonline.org/link/summary/39-9032.00

How many students complete the 2-year Fitness Specialist Level 2 Certificate?

No students completed this certificate in academic year 2011-12.

How many jobs are forecast in this occupation between 2010-20?

Lane County: 16 positions

Statewide: 143 positions

What wages are forecast for this occupation?

Lane County average hourly - $16.00; average annual - $33,277

Oregon average hourly - $18.01; average annual - $37,451

How much will the program cost?

(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

Resident tuition and fees .......................................................... $9,275
Books, supplies, program costs .............................................. $2,280
On-Campus room and board ................................................... Not offered

Total Estimate $11,555

What’s included?

Program Costs: lanecc.edu/esfs/credit-fees-and-expenses

First Year

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<th>Course Title</th>
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<td>Professional Activity: Fitness Assessment and Exercise Prescription: Field Tech.</td>
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<td>EXMS 194S</td>
<td>Professional Activity: Strength Training and Conditioning</td>
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<td>EXMS 196</td>
<td>Applied Anatomy and Kinesiology</td>
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<td>FN 225</td>
<td>Nutrition</td>
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<td>FN 240</td>
<td>Intro to Nutrition and Metabolism</td>
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<td>WR 115</td>
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<td>WR 121</td>
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Total Credits 18

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<td>EXMS 295</td>
<td>Injury Prevention and Management</td>
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<td>PE 280F</td>
<td>Co-op Ed: Fitness</td>
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<tr>
<td>PE 183S</td>
<td>Strength Training</td>
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<tr>
<td>PE 183U</td>
<td>Strength Training for Women</td>
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Total Credits 18

Spring

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<tbody>
<tr>
<td>EXMS 214</td>
<td>Physiology Exercise and Healthy Aging</td>
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<tr>
<td>PE 280F</td>
<td>Co-op Ed: Fitness</td>
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</tr>
<tr>
<td>PE 280RT</td>
<td>Co-op Ed: Corrective Fitness</td>
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<tr>
<td>PE 280</td>
<td>Co-op Ed: Physical Education</td>
<td></td>
</tr>
<tr>
<td>PE 280AR</td>
<td>Co-op Ed: Aerobics</td>
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</tr>
<tr>
<td>PE 280W</td>
<td>Co-op Ed: Wellness</td>
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</tr>
<tr>
<td>PE 280M</td>
<td>Co-op Ed: Fitness Management</td>
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<td>PE 280AT</td>
<td>Co-op Ed: Athletic Training</td>
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Total Credits 17-18

Second Year

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<td>General Biology – Survey of Biology</td>
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<td>BI 102I</td>
<td>General Biology – Human Biology</td>
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<tr>
<td>BI 112 and CH 112</td>
<td>Bio-Bonds Learning Community</td>
<td>4-5</td>
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Co-op Ed:

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<tr>
<td>PE 280F</td>
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<tr>
<td>PE 280</td>
<td>Co-op Ed: Physical Education</td>
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</tr>
<tr>
<td>PE 280AR</td>
<td>Co-op Ed: Aerobics</td>
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<tr>
<td>PE 280W</td>
<td>Co-op Ed: Wellness</td>
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<tr>
<td>PE 280M</td>
<td>Co-op Ed: Fitness Management</td>
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<tr>
<td>PE 280AT</td>
<td>Co-op Ed: Athletic Training</td>
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Total Credits 18
Students may repeat any of the above PE classes once for credit.

Directed Electives Courses to be selected from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>BA 101</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>BA 226</td>
<td>Business Law</td>
</tr>
<tr>
<td>BA 278</td>
<td>Leadership and Team Dynamics</td>
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<tr>
<td>BI 101F</td>
<td>General Biology - Survey of Biology</td>
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<td>BI 102D</td>
<td>General Biology – Survey of Biology</td>
</tr>
<tr>
<td>BI 102I</td>
<td>General Biology: Human Biology</td>
</tr>
<tr>
<td>BI 112</td>
<td>Cell Biology for Health Occupations (co-requisite CH 112)</td>
</tr>
<tr>
<td>BI 231</td>
<td>Human Anatomy and Physiology 1</td>
</tr>
<tr>
<td>BI 232</td>
<td>Human Anatomy and Physiology 2</td>
</tr>
<tr>
<td>BI 233</td>
<td>Human Anatomy and Physiology 3</td>
</tr>
<tr>
<td>CG 140</td>
<td>Career and Life Planning</td>
</tr>
<tr>
<td>CG 203</td>
<td>Human Relations at Work</td>
</tr>
<tr>
<td>CG 206</td>
<td>Coping Skills for Stress and Depression</td>
</tr>
<tr>
<td>CG 216</td>
<td>Understanding Eating Issues</td>
</tr>
<tr>
<td>CH 104</td>
<td>Introductory Chemistry 1</td>
</tr>
<tr>
<td>CH 105</td>
<td>Introductory Chemistry 2</td>
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<tr>
<td>CH 112</td>
<td>Chemistry for Health Occupations (co requisite BI 112)</td>
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<td>CH 221</td>
<td>General Chemistry 1</td>
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<td>CH 222</td>
<td>General Chemistry 2</td>
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<tr>
<td>CS 120</td>
<td>Concepts of Computing: Information Processing</td>
</tr>
<tr>
<td>EL 115</td>
<td>Effective Learning: Health Science Majors</td>
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<td>EXMS 214</td>
<td>Physiology of Exercise and Healthy Aging</td>
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<tr>
<td>EXMS 227</td>
<td>Introduction to Exercise Science</td>
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<td>EXMS 275</td>
<td>Exercise and Sport Biomechanics</td>
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<td>FN 110</td>
<td>Personal Nutrition</td>
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<tr>
<td>FN 190</td>
<td>Sports Nutrition</td>
</tr>
<tr>
<td>FN 230</td>
<td>Family, Food, and Nutrition</td>
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<tr>
<td>FN 240</td>
<td>Intro to Nutrition and Metabolism</td>
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<tr>
<td>HE 125</td>
<td>Workplace Health and Safety</td>
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<td>HE 152</td>
<td>Drugs, Society and Behavior</td>
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<td>HE 209</td>
<td>Human Sexuality</td>
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<td>Consumer Health</td>
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<td>HE 240</td>
<td>Holistic Health</td>
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<td>Personal Health</td>
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<td>HE 251</td>
<td>Wilderness First Aid</td>
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<td>HE 255</td>
<td>Global Health and Sustainability</td>
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<tr>
<td>HO 100</td>
<td>Medical Terminology</td>
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<tr>
<td>HO 150</td>
<td>Human Body Systems 1</td>
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<td>HS 107</td>
<td>Gerontology and Aging</td>
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<td>HS 200</td>
<td>Understanding Addictive Behaviors</td>
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<td>MTH 111</td>
<td>College Algebra</td>
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<td>MTH 112</td>
<td>Trigonometry</td>
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<td>MH 101</td>
<td>Fundamentals of Physics</td>
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<td>MH 102</td>
<td>Fundamentals of Physics</td>
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<td>MH 103</td>
<td>Fundamentals of Physics</td>
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<td>MH 201</td>
<td>General Physics</td>
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<tr>
<td>PSY 110</td>
<td>Exploring Psychology</td>
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<td>PSY 201</td>
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<td>PSY 202</td>
<td>General Psychology</td>
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<td>PSY 215</td>
<td>Lifespan Developmental Psychology</td>
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<td>PSY 218</td>
<td>Multicultural Psychology</td>
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<td>PSY 239</td>
<td>Introduction to Abnormal Psychology</td>
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<td>SO 204</td>
<td>Introduction to Sociology</td>
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<td>SO 207</td>
<td>Women and Work</td>
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<td>SO 208</td>
<td>Sport and Society</td>
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<tr>
<td>SP 105</td>
<td>Listening and Critical Thinking</td>
</tr>
<tr>
<td>SP 111</td>
<td>Fundamentals of Public Speaking</td>
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<tr>
<td>SP 112</td>
<td>Persuasive Speech</td>
</tr>
<tr>
<td>SP 115</td>
<td>Introduction to Intercultural Communication</td>
</tr>
<tr>
<td>SP 130</td>
<td>Business and Professional Speech</td>
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<td>SP 218</td>
<td>Interpersonal Communication</td>
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Winter

<table>
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<tr>
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<tbody>
<tr>
<td>PE 184</td>
<td>Personal Defense</td>
</tr>
<tr>
<td>PE 185T</td>
<td>Tai Chi Chuan</td>
</tr>
<tr>
<td>PE 185Y or PE 185Z or PE 185YG</td>
<td>Yoga</td>
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Total Credits: 12

Spring

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<tbody>
<tr>
<td>PE 184</td>
<td>Personal Defense</td>
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<tr>
<td>PE 185T</td>
<td>Tai Chi Chuan</td>
</tr>
<tr>
<td>PE 185Y or PE 185Z or PE 185YG</td>
<td>Yoga</td>
</tr>
</tbody>
</table>

Total Credits: 15
Fitness Specialist Level 1
One-Year Certificate of Completion

Learning Outcomes The graduate will:

• demonstrate interpersonal skills in the areas of leadership, motivation, and communication.
• understand and apply basic exercise principles related to applied kinesiology, physiology, injury prevention, conditioning, resistance training, and functional training.
• understand and apply nationally recognized standards for fitness and overall health and describe the benefits and precautions associated with exercise.
• understand and apply basic behavior modification strategies to enhance exercise and health behavior change with clients.
• administer various basic fitness assessments including the measurement of cardiovascular endurance, body composition, flexibility, muscular strength and endurance in gym or health club settings.
• design and demonstrate safe and effective exercise programs for apparently healthy individuals and groups within current fitness industry standards and best practices.
• utilize appropriate library and information resources to apply current fitness industry research and support lifelong professional education.
• apply and interpret basic algebraic formulas to fitness assessment data and exercise programming.
• respond to the needs of a diverse clientele and demonstrate inclusive practices.
• understand their scope of practice and role within the health and fitness field and the allied health care system and practice appropriate and ethical professional conduct.

Gainful Employment Disclosure
Standard Occupational Classification: 39-9031.00
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Fitness Trainers and Aerobics Instructors
onetonline.org/link/summary/39-9031.00
Or check on these O*Net Related Occupations:
Recreation Workers onetonline.org/link/summary/39-9032.00

How many students complete the 1-year Fitness Specialist Level 1 Certificate?
Two students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 15 positions
Statewide: 159 positions

What wages are forecast for this occupation?
Lane County average hourly - $12.82; average annual - $26,668
Oregon average hourly - $12.36; average annual - $25,711

How much will the program cost? (Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Resident tuition and fees .................................. $5,008
Books, supplies, program costs .......................... $990
On-Campus room and board ............................. Not offered
Total Estimate $6,998

What’s included?
Program Costs: lanecc.edu/esfs/credit-fees-and-expenses

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans ........................................ Not disclosed
Institutional financing ...................................... Not disclosed
(For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than ten graduates.)

Course Requirements
1. All EXMS courses must be passed with a letter grade of “C” or better.
2. All PE 280 courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C” or better to satisfy program requirements.

<table>
<thead>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>Fall</td>
<td>EXMS 194F</td>
<td>Professional Activity: Fitness Assessment and Exercise Prescription: Field Techniques</td>
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<td>EXMS 194S</td>
<td>Professional Activity: Strength Training and Conditioning</td>
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<tr>
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<td>EXMS 196</td>
<td>Applied Anatomy and Kinesiology</td>
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<td>FN 225</td>
<td>Nutrition</td>
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<td>FN 240</td>
<td>Intro to Nutrition and Metabolism</td>
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<td>PE 183A</td>
<td>Conditioning</td>
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<td>PE 183F</td>
<td>Fitness Education: Introduction</td>
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<td>Co-op Ed: Fitness</td>
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<td></td>
<td>WR 115</td>
<td>Introduction to College Writing</td>
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<td>EXMS 194T</td>
<td>Professional Activity: Techniques of Group Exercise Leadership</td>
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<td>EXMS 295</td>
<td>Injury Prevention and Management</td>
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<td>PE 183S</td>
<td>Strength Training</td>
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<td>Strength Training for Women</td>
<td>4-6</td>
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<td>BI 102D</td>
<td>General Biology – Survey of Biology</td>
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<td>General Biology – Human Biology</td>
<td>3</td>
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<td>BI 112 and CH 112</td>
<td>Bio-Bonds Learning Community</td>
<td>4-5</td>
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<tr>
<td></td>
<td>MTH 070</td>
<td>Introductory Algebra (or MTH 60 and 65 equivalent)</td>
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<td>MTH 095</td>
<td>Intermediate Algebra</td>
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<td>MTH 105</td>
<td>Intro to Contemporary Mathematics</td>
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<td>College Algebra</td>
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<td>HE 275</td>
<td>Lifetime Health and Fitness</td>
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<td>Human Relations requirement</td>
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<td>HE 125</td>
<td>Workplace Health and Safety</td>
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<td>HE 152</td>
<td>Drugs, Society and Behavior</td>
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<td>HE 251</td>
<td>Wilderness First Aid</td>
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<td>HE 209</td>
<td>Human Sexuality</td>
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<td>Holistic Health</td>
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<td>Lifetime Health and Fitness</td>
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<td>Physiology of Exercise and Healthy Aging</td>
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<td>PE 280F</td>
<td>Co-op Ed: Fitness</td>
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<tr>
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<td>PE 280RT</td>
<td>Co-op Ed: Corrective Fitness</td>
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Choice of:

Choice of:

Choice of:

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Choice of:

Choice of:

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Choice of:
### Fabrication/Welding Technology

**Offered by the Advanced Technology Division, 541.463.5380**

**Two-Year Associate of Applied Science Degree**  
Fabrication/Welding Technology

**One-Year Certificate of Completion**  
Fabrication/Welding Technology

**One-Year Certificate of Completion**  
Welding Processes

**Career Pathway Certificate of Completion**  
Wire Drive Welder

**Career Pathway Certificate of Completion**  
Shielded Metal Arc Welder

#### Purpose
To prepare the graduate for employment in entry-level and higher positions in metal fabrication industries. Graduates will begin work in light or heavy metal fabrication as welders and/or fabricators. Training and experience can lead to careers in technical sales, supervision, estimating, quality control, inspection, specialty welding, and teaching, as well as self-employment.

The fabrication/welding certificate program (the first year of the two-year degree) prepares graduates for employment as welders/fabricators. The welding processes certificate program prepares graduates for employment as welder-trainees or welders.

#### Learning Outcomes
The graduate of the AAS degree will:
- use blueprint-reading skills, cost estimating, applied science of materials, and mathematics necessary to the profession.
- apply knowledge of forming, fitting, and welding processes.
- demonstrate entry-level fabrication techniques and welding processes and application including GTAW, structural and pipework, quality control procedures.
- demonstrate and use industry safety standards.
- use appropriate library and information resources to research professional issues and support lifelong learning.
- use mathematical formulas to calculate area, volume, and weight of metal objects.

#### Job Openings Projected through 2020
- **Wages**
  - Lane County average hourly - $14.79; average annual - $30,769
  - Oregon average hourly - $16.58; average annual - $34,479

- **Costs**  (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
  - **Resident Tuition and Student Fees**  
    - Total Estimate $9,537
  - **Other Course/Program Costs**  
    - Tools $1,692
  - **Books and supplies**  
    - Total Estimate $750

**Total Estimate** $12,554

Fabrication/Welding Technology course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

#### Licensing or Other Certification Exams
Exams for Welder Qualification Certification - electric arc welding processes and fork lift certification.

#### Prerequisites
Minimum placement score of 68 in Reading OR completion of RD 080 OR RD 087 And EL 115 OR prior

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXMS 194S</td>
<td>Professional Activity: Strength Training and Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>HE 252</td>
<td>First Aid</td>
<td>3</td>
</tr>
<tr>
<td>PE 280AR</td>
<td>Co-op Ed: Aerobics</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td><strong>Winter</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXMS 194T</td>
<td>Professional Activity: Techniques of Group Exercise Leadership</td>
<td>2</td>
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<td>PE 280AR</td>
<td>Co-op Ed: Aerobics</td>
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<tr>
<td>FN 190</td>
<td>Sports Nutrition</td>
<td>2</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<td>6</td>
</tr>
</tbody>
</table>

### Group Exercise Instructor Certificate

#### Career Pathway Certificate of Completion

**Purpose** (Group Exercise Instructor Career Pathway Certificate)
Prepare students to become instructors in group fitness activities, such as aerobics, step, cycling, circuit, yoga, muscle conditioning, interval and other group exercise modalities. The curriculum and Co-operative education experiences serve as a “launching pad” into the career of instructing group exercise. National certification and further training in specific styles of group exercise is often required.

**Learning Outcomes** Upon completion of this certificate, students will:
- design, evaluate, and instruct safe and effective group exercise classes utilizing a variety of exercise modalities.
- appropriately modify and adapt group classes to meet the needs of a variety of participants.
- demonstrate excellent interpersonal skills in the areas of leadership, exercise motivation, and communication (written, verbal, and non-verbal).
- apply nationally recognized standards for group exercise instruction.
- communicate to participants the benefits, risks, and precautions involved with participation in group exercise.
- understand the role of proper nutrition and training techniques as they relate to physical fitness and weight management.
- identify and implement risk management strategies and safety precautions to ensure a safe and productive exercise experience for all participants.
- identify and communicate the unique benefits of group exercise in the health and fitness industry.

**Course Requirements**
1. All EXMS courses must be passed with a letter grade of “C” or better.
2. PE 280AR must be completed with a letter grade, not P/NP, and must be passed with a grade of “C” or better to satisfy program requirements. HE 252 must be completed with a grade of “Pass” or “C -” or better.
Fabrication/Welding Technology

A high school diploma or equivalent is recommended for all applicants to this program.

Admission Information Normal program entry is fall term. A mandatory program orientation is held for new students for fall term (dates available from Advance Technology counselor/advisor). Contact advisor/counselor for assistance for winter and spring term entry, email AdvTechPrograms@lanec.edu

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All WLD and MTH courses must be completed with a letter grade of "C-" or better. MFG course must be completed for a letter grade.
3. WR 115W and PE/Health requirement must be completed with a "C-" or better or Pass grade.
4. Choices for requirements in Arts and Letters, Social Science, and Science are listed on the Associate of Applied Science degree page.

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. In certain circumstances, Co-op experience may be substituted for major course work. Contact Marv Clemons, Fabrication/Welding Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemonsm@lanecc.edu

Fabrication/Welding

Two-Year Associate of Applied Science Degree/One-Year Certificate of Completion

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 112 Fabrication/Welding 1</td>
<td>12</td>
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<tr>
<td>MTH 085 Applied Geometry for Technicians or higher mathematics</td>
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<td>Total Credits</td>
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<table>
<thead>
<tr>
<th>Winter</th>
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<tbody>
<tr>
<td>WLD 113 Fabrication/Welding 2</td>
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<tr>
<td>CG 203 Human Relations at Work</td>
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<td>Total Credits</td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 114 Fabrication/Welding 3</td>
</tr>
<tr>
<td>WR 11SW Introduction to College Writing: Workplace Emphasis or higher writing</td>
</tr>
<tr>
<td>Total Credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 215 Fabrication/Welding 4</td>
<td>12</td>
</tr>
<tr>
<td>MFG 197 Manufacturing Technology</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td>3</td>
</tr>
<tr>
<td>Arts/Letters requirement</td>
<td>3</td>
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<tr>
<td>Social Science requirement</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 216 Fabrication/Welding 5</td>
</tr>
<tr>
<td>PE/Health requirement</td>
</tr>
<tr>
<td>Science or Computer Science course</td>
</tr>
<tr>
<td>Total Credits</td>
</tr>
</tbody>
</table>

Fabrication Welding

One-Year Certificate of Completion

Learning Outcomes The graduate of the Fabrication/Welding Technology One-Year Certificate of Completion will:

- read and build metal products from simple blueprints.
- use blueprints and other reference materials to calculate cost of materials and develop a budget.
- apply mathematics necessary to fabricate metal products.
- perform at entry-level welding related to the construction of metal products.
- demonstrate at industry entry-level use of certain machine tools.
- use appropriate library and information resources to research professional issues and support lifelong learning.

Gainful Employment Disclosure

Standard Occupational Classification: 51-4121.06
Go to the Department of Labor’s O*Net website for a profile of this occupation:

- Structural Metal Fabricators and Fitters onetonline.org/link/summary/51-2041.00
- Welders, Cutters, and Welder Fitters onetonline.org/link/summary/51-4121.06

How many students complete the Fabrication/Welding Technology 1-year Certificate?
Eight students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

How many jobs are forecast for this occupation between 2010-2027?
Lane County: 6 positions
Statewide: 64 positions

What wages are forecast for this occupation?
Lane County average hourly - $19.69; average annual - $40,535
Oregon average hourly - $19.49; average annual - $40,535

How much will the program cost?
(ESTIMATES BASED ON 2012-13 DATA FOR FULL-TIME STUDENTS. STUDENTS ATTENDING PART-TIME WILL INCUR ADDITIONAL TERM FEES. CONSULT LANE’S WEBSITE FOR UPDATED TUITION AND FEES.)

| Resident tuition and fees | $5,634 |
| Book, supplies, program costs | $1,575 |
| On-Campus room and board | Not offered |
| Total Estimate | $7,209 |

What’s included?
Program Costs: lanecc.edu/advtech/program-costs

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans: Not disclosed
Institutional financing: Not disclosed

For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than ten graduates.

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op students connect theory and practice, develop skills, expand career...
knowledge, and make contacts for the future. Work schedules and work sites vary. In certain circumstances, Co-op experience may be substituted for major course work. Contact Mary Clemens, Fabrication/Welding Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemonsmary@lanecc.edu

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All WLD and MTH courses must be completed with a letter grade of "C-" or better. WR 115W must be completed with a "C-" or better or Pass grade.

One-Year Certificate of Completion
Welding Processes
Purpose
To prepare the graduate for employment for entry-level and higher positions in metal fabrication industries. The graduate begins work in light or heavy metal fabrication as welders. Training and experience can lead to careers in technical sales, supervision, estimating, quality control, inspection, specialty welding, and teaching. The welding processes certificate program prepares graduates for employment as welder-trainees or welders.

Learning Outcomes
The graduate of the Welding Processes One-Year Certificate of Completion will:
• read simple blueprints, interpret and apply industrial welding symbols.
• demonstrate proficiency at an industry entry-level with Shielded Metal Arc Welding, various wire drive processes and Gas Tungsten Arc Welding.
• weld and cut metal as is typical of circumstances found in industrial environments.
• demonstrate and use industry safety standards.

Gainful Employment Disclosure
Standard Occupational Classification: 51-4121.06
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Structural Metal Fabricators and Fitters
onetonline.org/link/summary/51-2041.00
Or check on these O*Net Related Occupations:
Welders, Cutters, and Welder Fitters onetonline.org/link/summary/51-4121.06

How many students complete the Welding Processes 1-year Certificate?
No students completed this certificate in academic year 2011-12.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 6 positions
Statewide: 64 positions

What wages are forecast for this occupation?
Lane County average hourly - $19.69; average annual - $40,953
Oregon average hourly - $19.49; average annual - $40,535

How much will the program cost?
(Descriptions based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

What's included?
Program Costs: lanecc.edu/advtech/program-costs

Federal Loans: Not disclosed
Institutional financing: Not disclosed

What is the median loan debt incurred by students who completed the program in 2012?
Not disclosed

Wages
Lane County average, $16.93 hourly, $35,210 annually. (For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than ten graduates.)

Licensed or Other Certification Exams
Exams for Welder Qualification Certification - wire drive and arc welding processes.

Prerequisites
Minimum placement score of 68 in Reading OR completion of RD 080 OR prior college. A high school diploma or equivalent is recommended for all applicants to this program.

Admission Information
See lanecc.edu/advtech/at/admission-information or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Cooperative Education (Co-op)
Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. In certain circumstances, Co-op experience may be substituted for major course work. Contact Mary Clemens, Fabrication/Welding Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemonsmary@lanecc.edu

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All WLD and MTH courses must be completed with a letter grade of "C-" or better. WR 115W must be completed with a "C-" or better or Pass grade.

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>Total Credits</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Total Credits 15
Wire Drive Welder

Career Pathway Certificate of Completion

Learning Outcomes The graduate will:
- read simple introductory blueprints, interpret and apply industrial welding symbols.
- demonstrate proficiency at a industry entry-level with various wire drive processes.
- weld and cut metal as is typical of circumstances found in industrial environments.
- demonstrate and use industry safety standards.

MTH 085 Applied Geometry for Technicians or higher mathematics 4
Choice of: .......................................................... 4-12
WLD 143 Wire Drive Welding 1 4-12
WLD 112 Fabrication/Welding 1 4-12
WLD 154 Wire Drive Welding 2 4-12
WLD 113 Fabrication/Welding 2 4-12
WLD 140 Welder Qualification (Certification): Wire Drive 3-12
WLD 141 Welder Qualification (Certification): SMAW 3
WLD 142 Pipe Welding Lab: Carbon Steel ....... 3

Total Credits 15-40

Shielded Metal Arc Welder

Career Pathway Certificate of Completion

Learning Outcomes The graduate will:
- read simple introductory blueprints, interpret and apply industrial welding symbols.
- demonstrate proficiency at a industry entry-level with Shielded Metal Arc Welding.
- weld and cut metal as is typical of circumstances found in industrial environments.
- demonstrate and use industry safety standards.

MTH 085 Applied Geometry for Technicians or higher mathematics 4
Choice of: .......................................................... 4-12
WLD 121 Shielded Metal Arc Welding 1 4-12
WLD 112 Fabrication/Welding 1 4-12
WLD 113 Fabrication/Welding 2 4-12
WLD 122 Shielded Metal Arc Welding 2 4-12
WLD 141 Welder Qualification (Cert) SMAW 3-12
WLD 216 Fabrication/Welding 5 3

Total Credits 15-40

Flight Technology

Offered by the Lane Aviation Academy, 541.463.4195
Two-Year Associate of Applied Science Degree

Purpose To prepare students for successful careers as pilots in the air transportation industry.

Learning Outcomes The graduate will:
- be certificated by the FAA as commercial pilot with an option for being FAA certified as a Flight Instructor.
- have FAA pilot certification and be legally qualified for an entry-level position in the commercial aviation industry.
- have knowledge and skills to serve in responsible positions in a corporate aviation department.
- be skilled in the use of multiple industry libraries and data base systems and be skilled as a researcher in the aviation industry.
- be skilled in the use of various systems of measure and conversion; be skilled in the use of performance tables and graphs; plot data manually and electronically to determine performance and trends.
- skillfully access a multitude of library accessible resources for applications information and topical research projects; be skilled in the use of local and national libraries and databases.
- accurately use systems of measure, skillfully perform unit conversions, and be skilled in computational analysis defining airplane operational performance; accurately use performance tables, charts and graphs; use interpolation to derive implied values; and be skilled in the use of aviation specific manual and electronic calculators to determine time, rate and trends.

Graduates may also transfer to a four-year university preparing for a professional degree.

Job Openings Projected through 2020
- Statewide openings - 80 annually
- National openings – 10,620 annually for commercial pilots, aircraft pilots and flight engineers, and airline pilots and copilots

Wages Flight instructors earn from $15,000-45,000. Entry-level airline pilots earn $28,000 through their probationary period. Air carrier line pilots earn $45,000-250,000 annually.

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

Resident Tuition and Student Fees .................. $14,230
Certificates, flight lab and instruction fees, including ground charges ................................ up to $45,000
FAA Knowledge Exams (five required for degree) ..... $750
FAA Physical ....................................................... $250
Books ...................................................................... $1800
Supplies ................................................................... $300

Total up to $62,330

Flight Technology course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Admissions Information An information packet may be requested by calling 541.463.4195, visiting the Flight Technology Department at 28715 Old Airport Road, Eugene OR 97402, or visiting our website at lanecc.eduflight.
Program Endorsement The Federal Aviation Administration approves this program. Flight Technology is a Certified Part 141 approved training course and is the only flight school in the State of Oregon with FAA approved self-examining authority for Private Pilot, Commercial Pilot and Instrument Rating.

Licenses under Part 141 Private Pilot Course – Airplane Single Engine Land (ASEL), Professional Pilot Course – Commercial and Instrument ASEL, Commercial ASEL, Instrument Pilot Course and Airline Transport Proficiency Course AMEL.


Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job career related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Contact Marv Clemons, Flight Technology Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemonsm@lanecc.edu

Note For FT 239 Professional Pilot Flight Lab a student must have a total of 39 Flight Lab credits to fulfill the AAS Degree requirement.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All GS and FT courses (except FT 102 and FT 239) must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.
3. CS 120, FT 102, FT 239, MTH 095 and WR 121 must be completed with a grade of “Pass” or “C-” or better.
4. Choices for Arts and Letters and Human Relations requirements are listed on the Associate of Applied Science degree page.

Prerequisite Courses An applicant may complete the following courses prior to program entry.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Arts and Letters requirement</td>
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<tr>
<td>Human Relations requirement</td>
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<tr>
<td>Total Credits</td>
<td>6</td>
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First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FT 102 General Aviation Careers</td>
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<tr>
<td>FT 103 Aircraft Development</td>
<td>4</td>
</tr>
<tr>
<td>FT 130 Primary Flight Briefing</td>
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</tr>
<tr>
<td>FT 239 Professional Pilot Flight Lab</td>
<td>6</td>
</tr>
<tr>
<td>FT 250 Private Pilot Ground School</td>
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<td>Total Credits</td>
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<table>
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<tbody>
<tr>
<td>FT 239 Professional Pilot Flight Lab</td>
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</tr>
<tr>
<td>GS 109 Meteorology</td>
<td>5</td>
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<tr>
<td>MTH 095 Intermediate Algebra or higher mathematics</td>
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<td>Total Credits</td>
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Spring

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<tr>
<th>Course</th>
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<tr>
<td>WR 121 Composition: Introduction to Academic Writing or higher writing</td>
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<tr>
<td>FT 115 Aircraft Structures and Systems</td>
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<tr>
<td>FT 239 Professional Pilot Flight Lab</td>
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<tr>
<td>FT 251 Commercial Pilot Ground School</td>
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<td>Total Credits</td>
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Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 120 Concepts of Computing or higher computer science</td>
<td>4</td>
</tr>
<tr>
<td>FT 239 Professional Pilot Flight Lab</td>
<td>7</td>
</tr>
<tr>
<td>FT 252 Instrument Ground School</td>
<td>5</td>
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<th>Credits</th>
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<tr>
<td>FT 239 Professional Pilot Flight Lab</td>
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<tr>
<td>FT 254 Aerodynamics</td>
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<tr>
<td>FT 256 Flight Instructor–Airplane Ground School</td>
<td>3</td>
</tr>
<tr>
<td>FT 280 Co-op Ed:</td>
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<tr>
<td>Flight Technology (optional)</td>
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<tr>
<td>Physical Education/Health requirement</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BA 254 General Aviation Management</td>
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<tr>
<td>FT 228 Multiengine Ground School</td>
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<tr>
<td>FT 239 Professional Pilot Flight Lab</td>
<td>7</td>
</tr>
<tr>
<td>FT 255 Fundamentals and Flight Instructor—Instrument Ground School</td>
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<td>Total Credits</td>
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Additional Ratings:

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<th>Credits</th>
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<tr>
<td>FT 239 ATP</td>
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<tr>
<td>FT 239 CFIA</td>
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</tr>
<tr>
<td>FT 239 CFII</td>
<td>1-6</td>
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<tr>
<td>FT 239 MEI</td>
<td>1-4</td>
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<tr>
<td>FT 239 Multiengine</td>
<td>1-3</td>
</tr>
</tbody>
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Geospatial Information Science and Technology

Offered by the Social Science Division, 541.463.5427
Two-Year Associate of Applied Science Degree

Career Pathway Certificate of Completion, Geographic Information Science

Purpose Prepares graduates for careers as GIS technicians who work in a variety of fields to collect, map, analyze, and manage spatial data. GIS technicians are employed by organizations involved in forestry and natural resource exploration, mapping companies, utility companies, research organizations, city government, public safety organizations, the military, health and human services organizations, and consulting firms (e.g. in environmental, engineering, forestry, surveying and marketing fields). GIS technicians help develop and manage spatial data (information related to location), use data to make decisions and manage resources, and create and update maps for use in reports and presentations.

Learning Outcomes The graduate will:

- collect and input data into a GIS system using: GPS, Digitizing, Geocoding.
- design and generate various cartographic products for planning or presentations.
- understand and convert spatial data formats.
- create, manage, and update spatial data.
- manage information in a GIS database.
- satellite image processing.
- perform routine data analysis – buffer, query, union, intersect.
- plan, design and manage mapping and analysis projects.
### Job Openings Projected through 2020
Lane County openings - 4 annually
Statewide openings - 48 annually

### Wages
Lane County average hourly - $22.58; average annual - $46,962
Oregon average hourly - $23.22; average annual - $46,962

### Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
- Resident Tuition and Student Fees: $9,265
- Other Course/Program Costs: $490
- Books and supplies: $3,200
- Total Estimate: $12,955

Geospatial Information Science and Technology course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

### Program Endorsement
The National GeoTech Center – DelMar Community College

### Cooperative Education (Co-op)
Co-op is a required and important part of the Geospatial Information Science and Technology program. It provides relevant field experience that integrates theory and practice while providing opportunities to develop skills, explore career options, and network with professionals and employers in the GIST field. Three Co-op credits are required for the GIST degree program. Work schedules and work sites vary. Contact Lynn Songer, GIST Co-op Coordinator, CEN, Rm.420G, 541.463.5493, songerl@lanecc.edu

### Program Lead
Lynn Songer, CEN, Rm.420G, 541.463.5493, songerl@lanecc.edu

### Prerequisites
Students must qualify for MTH 060, either by placement testing or completing prerequisite courses, and by the fourth term, qualify to begin MTH 095. Each student should consult with a counselor or advisor to plan a program of study.

### Directed Electives
Students in the AAS degree program are required to complete 8 credits from the GIS Directed Electives list.

### Course Requirements
1. All required CS, GEOG, and DRF courses, and all GIS courses except GIS 280 and Directed electives, must be taken for a letter grade, not P/NP, and must be passed with a "C-" or better to fulfill program requirements.
2. See course descriptions for prerequisite and corequisite information.
3. For choices in Arts and Letters and Social Science, see AAS degree description, page 44.

### Geospatial Information Science and Technology

#### Two-Year Associate of Applied Science Degree

##### First Year

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>BT 123 MS EXCEL for Business</td>
<td>4</td>
</tr>
<tr>
<td>CIS 125D Software Tools 1: Databases</td>
<td>4</td>
</tr>
<tr>
<td>GIS 151 Digital Earth</td>
<td>4</td>
</tr>
<tr>
<td>DRF 167 CAD 1</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

##### Winter

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GIS 246 GIS 2</td>
<td>4</td>
</tr>
<tr>
<td>GIS 245 GIS 1</td>
<td>4</td>
</tr>
<tr>
<td>GIS Directed Elective</td>
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<tr>
<td><strong>Total Credits</strong></td>
<td>16</td>
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</tbody>
</table>

##### Second Year

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 249 Raster Analysis and Remote Sensing</td>
<td>4</td>
</tr>
<tr>
<td>CS 133P Beginning Programming: Python</td>
<td>4</td>
</tr>
<tr>
<td>Arts and Letters Elective</td>
<td>4</td>
</tr>
<tr>
<td>Elective - Suggested Social science</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

##### Spring

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 260 Applications in GIS</td>
<td>4</td>
</tr>
<tr>
<td>Arts and Letters Elective</td>
<td>4</td>
</tr>
<tr>
<td>GIS 280 Co-op Ed: GIS</td>
<td>3</td>
</tr>
<tr>
<td>Elective - Suggested Social science</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

### Geographic Information Systems

#### Career Pathway Certificate of Completion

**Purpose**
This sequence of courses provides a foundation in geospatial concepts while developing workforce skills. The focus on collaborative projects using real-world data to solve problems makes the GIS course sequence relevant and dynamic.

**Learning Outcomes**
The graduate will:
- collect and input data into a GIS system using: GPS, Digitizing, Geocoding.
- design and generate various cartographic products for planning or presentations.
- create, manage, and update spatial data.
- manage information in a GIS database.
- perform routine data analysis-buffer, query, union, intersect.

#### Courses required

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 151 Digital Earth</td>
<td>4</td>
</tr>
<tr>
<td>GIS 245 GIS 1</td>
<td>4</td>
</tr>
<tr>
<td>GIS 246 GIS 2</td>
<td>4</td>
</tr>
<tr>
<td>GIS Directed Elective</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

#### GIS Directed Electives

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 247 Information Analysis and Visualization</td>
<td>4</td>
</tr>
<tr>
<td>GIS 250 Cartographic Design</td>
<td>4</td>
</tr>
<tr>
<td>GIS 253 Emerging Trends in Geospatial Technology</td>
<td>4</td>
</tr>
<tr>
<td>GIS 254 Spatial Data and Scripting</td>
<td>4</td>
</tr>
<tr>
<td>GIS 298 Independent Study: GIST</td>
<td>1-12</td>
</tr>
</tbody>
</table>
Graphic Design
Offered by the Arts Division, 541.463.5409

Two-Year Associate of Applied Science Degree

Purpose
To prepare graduates for entry-level positions in the fields of graphic and digital design.

Learning Outcomes
The graduate will:
• design a variety of graphic materials including advertising, corporate identity, publications, packaging, signage, marketing, and the internet.
• solve graphic communication problems through the use of computer technology used in the field.
• demonstrate understanding of fundamental art, communication, and marketing principles in the development of design solutions.
• demonstrate understanding of professional business standards and practices.
• demonstrate ability to design and produce materials that will meet professional standards for reproduction.
• use appropriate library and information resources to research design problems, issues, and technology as well as to support lifelong technical learning.

Job Openings Projected through 2020
Lane County openings - 11 annually
Statewide openings - 130 annually

Wages
Lane County average hourly - $21.94; average annual - $45,633
Oregon average hourly - $19.28; average annual - $40,102

Costs
( Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition.)

Costs:
Resident Tuition and Student Fees................................. $9,006
Other Course/Program Costs........................................ $1,500
Total Credits $10,506

Admission Information
Open admission for first year. Limited admission for second year. See lanecc.edu/medialarts/graphicdesign/second-year-graphic-design-program.

Cooperative Education (Co-op)
Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. A minimum of six credits of Co-op in graphic design is required for completion of the graphic design program. Contact Teresa Hughes, Graphic Design Cooperative Education Coordinator, Bldg. 17, Rm. 105, 541.463.3179, hughest@lanecc.edu

Program Contacts:
Jefferson Goolsby, Bldg. 17, Rm. 105;
Susan Lowdermilk, Bldg. 11, Rm. 112.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. CIS 195 and ART 280GD must be completed with a letter grade, not P/NP.
3. ART 200, CG 203, GD 110, MTH 060, MUL 218, WR 121, Science/Math/Computer Science Requirement, and Directed Electives must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements. All other courses must be completed with a letter grade of “B” or better to satisfy prerequisite requirements.

Two-Year Associate of Applied Science Degree

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 131 Introduction to Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 216 Digital Design Tools</td>
<td>4</td>
</tr>
<tr>
<td>ART 261 Photography 1</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:.........................</td>
<td>4</td>
</tr>
<tr>
<td>ART 115GD Basic Design Fundamentals (4 credits) or ART 115 Basic Design: Fundamentals (3 credits) and GD 110 Introduction to Graphic Design (1 credit)</td>
<td>14</td>
</tr>
</tbody>
</table>

Total Credits 14

Winter

<table>
<thead>
<tr>
<th>Winter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 119 Typography 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 200 Graphic Design History</td>
<td>3</td>
</tr>
<tr>
<td>ART 225 Digital Illustration</td>
<td>3</td>
</tr>
<tr>
<td>CG 203 Human Relations at Work</td>
<td>3</td>
</tr>
<tr>
<td>Science/Math/Computer Science requirement</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 16

Spring

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 116 Basic Design: Color</td>
<td>3</td>
</tr>
<tr>
<td>ART 231 Drawing: Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>MUL 218 Business Practices for Media Arts</td>
<td>2</td>
</tr>
<tr>
<td>MUL 212 Digital Imaging</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
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</tbody>
</table>

Total Credits 16

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MUL 220 Intermediate Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 221 Graphic Design 1</td>
<td>4</td>
</tr>
<tr>
<td>ART 227 Graphic Design Production 1</td>
<td>3</td>
</tr>
<tr>
<td>CIS 195 Web Authoring 1 G</td>
<td>3</td>
</tr>
<tr>
<td>Directed elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 16

Winter

<table>
<thead>
<tr>
<th>Winter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 222 Graphic Design 2</td>
<td>4</td>
</tr>
<tr>
<td>ART 228 Graphic Design Production 2</td>
<td>4</td>
</tr>
<tr>
<td>ART 280GD Co-op Ed: Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 289 Web Production</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:.........................</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education Activity requirement</td>
<td>4</td>
</tr>
<tr>
<td>Health requirement</td>
<td>4</td>
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</table>

Total Credits 17

Spring

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 223 Graphic Design 3</td>
<td>4</td>
</tr>
<tr>
<td>ART 229 Graphic Design Production 3</td>
<td>4</td>
</tr>
<tr>
<td>ART 280GD Co-op Ed: Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 290 Design Concepts for the Web</td>
<td>3</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra or higher mathematics</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 18

Directed Electives
Any Art Class
Any Multimedia Class

Academic Advising Online
Free online resources are available for ALL majors!
On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
## Health Records Technology

**Offered by Health Professions Division, 541.463.5617**

**Two-Year Associate of General Studies**

**One-Year Certificate of Completion**

**Career Pathway Certificate of Completion: Basic Health Care**

**Career Pathway Certificate of Completion: Medical Coding**

**Career Pathway Certificate of Completion: Medical Transcription**

### Purpose
Prepares graduates for entry level careers in medical records, health information management, medical billing, and medical transcription. Health Record Technicians organize and manage demographic, coded, and billing data by ensuring its quality, accuracy, accessibility, and security. They communicate with physicians and other healthcare professionals to clarify diagnoses or to obtain additional information as needed to meet billing, payment, and regulatory requirements. Health Record Technicians may assist with improving electronic health records (EHR) software usability.

### Learning Outcomes
The graduate will:
- organize, input, process, analyze, secure, and distribute health-care information.
- organize, analyze, and technically evaluate the health record content for completeness and accuracy.
- abstract health records and assign standardized codes to diagnoses and procedures for indexing health data, reporting needs, and processing claims for insurance reimbursement.
- answer legal, governmental, and insurance company inquiries, compiling statistical data.
- be involved in administration, reimbursement, quality assurance, utilization review, and risk management committees as a representative of the Health Information Management team.
- utilize library and valid internet resources for research, projects, and to maintain a level of expertise in his or her field of study.
- perform mathematical functions as necessary to prepare health data reports, transcribe clinic notes and/or physician dictation per regulatory requirements with accuracy and timeliness.
- transcribe clinic notes and/or physician dictation per regulatory requirements with accuracy and timeliness.

### Job Openings Projected through 2020
- **Lane County openings**: 14 annually
- **Statewide openings**: 136 annually

### Wages
- **Lane County average hourly**: $18.87; average annual - $39,260
- **Oregon average hourly**: $18.18; average annual - $37,824

### AGS Costs
(Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Resident tuition and fees</td>
<td>$11,289</td>
</tr>
<tr>
<td>Books, supplies, program costs</td>
<td>$2,700</td>
</tr>
<tr>
<td>Differential Fees*</td>
<td>$345</td>
</tr>
<tr>
<td><strong>Total Estimate</strong></td>
<td>$14,334</td>
</tr>
</tbody>
</table>

* This is the total of all the differential fees attached to Health Records Technology courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

### Costs in addition to Tuition (estimates)
See online credit class schedule for current course fees.

A physical examination, immunizations, and a CPR Certification for Health Professionals are required prior to admission in Fall term. A background check, drug screen, and student health insurance is required the term the student registers for their HRT co-op class. Health Insurance can be obtained through the student health insurance (information available at the student health clinic) or other health insurance providers. (Cost variable based on individual circumstances.) Students should NOT begin processing any of these requirements until they have been accepted into the program and have received the specific instructions in their acceptance letter, or it could cause extra expenses.

### Admission Information
See the Counseling and Advising Center, e-mail HRTProgram@lanec.edu or consult the HRT web site, lanec.edu/hp/hrt/admissions-and-application.

### Cooperative Education (Co-op)
Co-op is required for students admitted to the HRT Program. Students must successfully complete 3 credit hours (minimum) of on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Students are required to complete a minimum of two terms of their program course work prior to registering for HRT Co-op. Contact the HRT Cooperative Coordinator, Chuck Fike, Bldg. 19, 541.463.5203.

### Program Coordinator
Shelley K. Williams, BA, RN, 541.463.5182, williamSSK@lanec.edu

### Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All BT, CS, CIS, HO, HIM, HIT, MTH, SP, and WR courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C” or better to satisfy program requirements. Other courses may be completed with a “Pass” or grade of “C-.”
3. Completion of BI 231, 232, and 233 with a “C” or better is an acceptable equivalent for HO 150 and HO152.
4. Completion with a grade of “C” or better of 3-course series HIM 270, HIM 273, and HIM 275 may be substituted for HO 114 Introduction to Coding.

### Associate of General Studies Degree

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites to Apply</td>
<td></td>
</tr>
<tr>
<td>Choice of:</td>
<td>3-4</td>
</tr>
<tr>
<td>BT 120 MS Word for Business</td>
<td></td>
</tr>
<tr>
<td>CIS 101 Computer Fundamentals</td>
<td></td>
</tr>
<tr>
<td>CS 120 Concepts of Computing: Info Processing</td>
<td></td>
</tr>
<tr>
<td>HO 100 Medical Terminology 1</td>
<td>3</td>
</tr>
<tr>
<td>HO 110 Administrative Medical Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics proficiency, choice of</td>
<td></td>
</tr>
<tr>
<td>MTH 052 Math for Physical Science or higher</td>
<td></td>
</tr>
<tr>
<td>Credit by Exam for MTH 052, or higher or transcribed credits:</td>
<td></td>
</tr>
<tr>
<td>AP (Calculus), or CLEP (College Algebra, or any Calculus, or Statistics), or IB (Mathematics, or Math Studies, or Further Mathematics, or Statistics)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>HIT 104 Clinical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HIT 120 Introduction to Health Records</td>
<td>2</td>
</tr>
<tr>
<td>HO 150 Human Body Systems 1</td>
<td>3</td>
</tr>
<tr>
<td>HO 150 Medical Formatting</td>
<td>3</td>
</tr>
<tr>
<td>HIT 195 Medical Transcription 1</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits | 14 |
Health Records Technology

One-Year Certificate of Completion

Purpose: Prepares graduates for entry-level careers in medical records, health information management, medical billing, and medical transcription. Health Record Technicians organize and manage demographic, coded, and billing data by ensuring its quality, accuracy, accessibility, and security. They communicate with physicians and other healthcare professionals to clarify diagnoses or obtain additional information as needed to meet billing, payment, and regulatory requirements. Health Record Technicians may assist with improving electronic health records (EHR) software usability.

Learning Outcomes: The graduate will:

- organize, input, process, analyze, secure, and distribute health-care information.
- organize, analyze, and technically evaluate the health record content for completeness and accuracy.
- abstract health records and assign standardized codes to diagnoses and procedures for indexing health data, reporting needs, and processing claims for insurance reimbursement.
- answer legal, governmental, and insurance company inquiries, compiling statistical data.
- be involved in administration, reimbursement, quality assurance, utilization review, and risk management committees as a representative of the Health Information Management team.
- utilize library and valid internet resources for research, projects, and to maintain a level of expertise in his or her field of study.
- perform mathematical functions as necessary to prepare health data reports, transcribe clinic notes and/or physician dictate per regulatory requirements with accuracy and timeliness.

Gainful Employment Disclosure

Standard Occupational Classification: 29-2071.00

Go to the Department of Labor’s O*Net website for a profile of this occupation:

Medical Records and Health Information Technicians
onetonline.org/link/summary/29-2071.00

Or check on these O*Net Related Occupations:
Insurance Claims Clerks onetonline.org/link/summary/43-9041.00

How many students complete the Health Records Technology 1-year Certificate?
Thirty-three students complete this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
Approximately 33 percent completed in the number of terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to be better prepared for college level courses, affecting this narrowly defined on-time completion rate.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 14 positions
Statewide: 136 positions

What wages are forecast for this occupation?
Lane County average hourly - $18.87; average annual - $39,260
Oregon average hourly - $18.18; average annual - $37,824

How much will the program cost?
(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

Resident tuition and fees ................................................ $7,239
Books, supplies, program costs ........................................ $1,700
On-Campus room and board........................................... Not offered

Total Estimate $8,939

What’s included?
Program Costs: lanec.edu/estfs/credit-fees-and-expenses

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans.......................................................... $3,145
Institutional financing.................................................. $0

Admission Information
See the Counseling and Advising Center, e-mail HRTProgram@lanec.edu or consult the HRT web site, lanec.edu/hp/hrt/admissions-and-application

Cooperative Education (Co-op)
Co-op is required for students admitted to the HRT Program. Students must successfully complete 3 credit hours (minimum) of on-the-job work experience.
related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Students are required to complete a minimum of two terms of their program coursework prior to registering for HRT Co-op. Contact the HRT Cooperative Coordinator, Chuck Fike, Bldg. 19, 541.463.5203.

Program Coordinator Shelley K. Williams, RN, BA 541.463.5182, williamSSK@lanecc.edu

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All BT, CIS, HO, HIM, HIT, MTH, SP, and WR courses must be completed with a letter grade, not P/NP, and must be passed with a grade of "C" or better to satisfy program requirements. Other courses may be completed with a “Pass” or grade of “C-.”
3. Completion of BI 231, 232, and 233 with a “C” or better is an acceptable equivalent for HO 150 and HO152.
4. Completion with a grade of “C” or better of 3-course series HIM 270, HIM 273, and HIM 275 may be substituted for HO 114 Introduction to Coding.

Prerequisites to Apply
Choice of: ................................................................. 3-4
BT 120 MS Word for Business.................................
CIS 101 Computer Fundamentals
CS 120 Concepts of Computing: Info Processing
HO 100 Medical Terminology 1 ................................ 3
HO 110 Administrative Medical Office Procedures .... 3
Mathematics proficiency, choice of ..................................... 3
MTH 52 Math for Physical Science or higher
Credit by Exam for MTH 052, or higher or transcripted credits: AP (Calculus), or CLEP (College Algebra, or any Calculus, or Statistics), or IB (Mathematics, or Math Studies, or Further Mathematics, or Statistics)

One-Year Certificate of Completion

Fall
HIT 120 Introduction to Health Records .......................... 2
HO 114 Introduction to Coding ........................................... 3
HO 150 Human Body Systems 1 ................................. 3
HO 190 Medical Formatting ........................................... 3
HIT 195 Medical Transcription 1 ........................................ 3
Directed Elective .......................................................... 3

Total Credits 17

Winter
SP 218 Interpersonal Communication ............................. 4
Choice of: ................................................................. 3-4
CIS 101 Computer Fundamentals
CS 120 Concepts of Computing
HIT 196 Medical Transcription 2 ........................................ 3
HO 112 Medical Insurance Procedures .............................. 3
HO 152 Human Body Systems 2 ..................................... 3
HO 220 Legal and Ethical Aspects of Health Care ............ 3

Total Credits 19-20

Spring
HIT 104 Clinical Terminology ............................................. 3
HIT 154 Introduction to Disease Processes ....................... 3
HIT 160 Practice Management .......................................... 3
WR 121 Introduction to Academic Writing ....................... 4
SOC 204 Introduction to Sociology .................................... 3
(or other course fulfilling AAS Human Relations requirement)
HIT 280 Co-op Ed: Health Records ................................. 3

Total Credits 19

Directed Electives
CIS 125D Software Tools 1: Databases ............................ 4

HIT 101 Intro to Public Health ............................................ 3
HIT 107 Working with IT Systems ..................................... 3
HIT 111 Networking & Health Info Exchange ..................... 3
HIM 270 ICD Coding ..................................................... 4
HIM 273 CPT Coding 1 .................................................... 4
HIM 275 CPT Coding 2 .................................................... 4
HIT 197 Medical Transcription 3 ....................................... 3
HIT 222 Reimbursement Methodologies ........................... 3
HIT 280 Co-op Ed: Health Records ................................. 3-6
HO 153 Intro to Pharmacology .......................................... 3

Basic Health Care

Career Pathway Certificate of Completion

Purpose This career pathway certificate teaches the basic skills needed for employment in an entry level position in a health care setting. The outcomes include practice responsible and confidential communications and apply an understanding of health care laws and ethics are required in health care practice, work in a professional manner in the health care environment, understand and apply medical terminology appropriately, describe the anatomy and physiology of the various systems of the body, demonstrate basic computer skills and, recognize the scope of work the student is legally allowed to perform with their level of training. The certificate is fully embedded in the Health Records Technology certificate and multiple other Lane programs. It is designed for positions in health care such as patient transport, medical receptionist, environmental support, food services, and physical therapy aide. There is no application requirement for this certificate.

Learning Outcomes The graduate will:
- practice responsible and confidential communications.
- apply an understanding of health care laws and ethics that are required in health care practice.
- work in a professional manner in the health care environment.
- understand and apply medical terminology appropriately.
- describe the anatomy and physiology of the various systems of the body.
- demonstrate basic computer skills.
- recognize the scope of work the graduate is legally allowed to perform with his or her level of training.

Admissions There is no application requirement for this certificate.

Course Requirements
1. Prerequisites may be required for some courses. See course descriptions.
2. All courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C” or better to satisfy program requirements.
3. Completion of BI 231, 232, and 233 with a “C” or better is an acceptable equivalent for HO 150 and HO152.

Fall
MTH 052 Math for Physical Science or higher ................. 3-4
HO 100 Medical Terminology 1 ........................................ 3
HO 110 Administrative Medical Office Procedures ............ 3
HO 150 Human Body Systems 1 ..................................... 3

Total Credits 12-13

Winter
Choice of: ................................................................. 3-4
BT 120 MS Word for Business.................................
CIS 101 Computer Fundamentals
CS 120 Concepts of Computing: Info Processing
Medical Coding

Career Pathway Certificate of Completion

**Purpose** A coding specialist is an individual who reviews and analyzes health records to identify relevant diagnoses and procedures for distinct patient encounters. The coding specialist is responsible for translating diagnostic and procedural phrases utilized by health care providers into coded form. The translation process requires interaction with the health care provider to ensure that the terms have been translated accurately. The coded information that is a product of the coding process is then utilized for reimbursement purposes, in the assessment of clinical care, to support medical research activity, and to support the identification of health care concerns critical to the public at large.

A coding specialist must have a thorough understanding of the content of the medical record in order to be able to locate information to support or provide specificity for coding. The coding specialist must also be highly trained in anatomy and physiology of the human body and disease processes in order to understand the etiology, pathology, symptoms, signs, diagnostic studies, treatment modalities, and prognosis of diseases and procedures to be coded.

**Learning Outcomes** The graduate will:

- practice responsible and confidential communications.
- translate diagnostic and procedural phrases utilized by health care providers into coded form.
- interact with the health care provider to ensure that the terms have been translated accurately.
- utilize coded information for reimbursement purposes, in the assessment of clinical care, to support medical research activity, and to support the identification of health care concerns critical to the public at large.
- understand the content of medical records.
- locate information to support or provide specificity for coding.
- demonstrate knowledge of anatomy and physiology of the human body and disease processes.
- demonstrate understanding of the etiology, pathology, symptoms, signs, diagnostic studies, treatment modalities, and prognosis of diseases and procedures to be coded.

**Wages** Beginning pay for medical coding specialists will range from $12 - $18.50 per hour.

**Admission Information** Application and admission into the Health Records Technology Program is required. Admission and Application information is found on the web at: lanecc.edu/hp/hrt/.

**Cooperative Education (Co-op)** Co-op is required for students admitted to the HRT Program. Students must successfully complete 3 credit hours (minimum) of on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Students are required to complete a minimum of two terms of their program course work prior to registering for HRT Co-op. Contact the HRT Cooperative Coordinator, Chuck Fike, Bldg. 19, 541.463.5203.

**Counseling and Advising** For assistance in meeting program or application requirements, please go to Counseling and Advising in building 1, room 103 or e-mail HRTProgram@lanecc.edu

**Program Coordinator:** Shelley K. Williams, RN, BA. 541.463.5182, williamSSK@lanecc.edu

**Course Requirements**

1. Prerequisites are required for some courses. See course descriptions.
2. All BT, CIS, HO, HIM, HIT, MTH, SP, and WR courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C” or better to satisfy program requirements. Other courses may be completed with a “Pass” or grade of “C-.”
3. Completion of BI 231, 232, and 233 with a “C” or better is an acceptable equivalent for HO 150 and HO152.

**Prerequisites to Apply**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT 120 MS Word for Business</td>
<td>3-4</td>
</tr>
<tr>
<td>CIS 101 Computer Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CS 120 Concepts of Computing: Info Processing</td>
<td>3</td>
</tr>
<tr>
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**Total Prerequisite Credits** 12-13

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<tr>
<td>HIM 270 ICD Coding</td>
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<td>HIT 120 Introduction to Health Records</td>
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<tr>
<td>HO 112 Medical Insurance Procedures</td>
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</tr>
<tr>
<td>HO 150 Human Body Systems</td>
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**Total Credits** 12

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<tr>
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<td>HO 152 Human Body Systems 2</td>
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<td>HO 153 Introduction to Pharmacology</td>
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<tr>
<td>HO 220 Legal and Ethical Aspects of Health Care</td>
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**Total Credits** 13

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<tr>
<td>HIM 275 CPT Coding 2</td>
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<tr>
<td>HIT 154 Introduction to Disease Processes</td>
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<tr>
<td>HIT 222 Reimbursement Methodologies</td>
<td>3</td>
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<tr>
<td>HIT 280 Co-op Ed: Health Records</td>
<td>3</td>
</tr>
<tr>
<td>HIT 195 Medical Transcription 1</td>
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**Medical Transcription**

Career Pathway Certificate of Completion

Medical transcriptionists are language specialists who transcribe dictation by physicians and other healthcare providers in order to document patient care. Important personal and professional characteristics of the medical transcriptionist include:

- desiring a professional career in medicine
- enjoyment in learning something new everyday
- having above-average skills in spelling and grammar
- enjoyment of typing and transcribing
- working independently
- being concerned about quality and excellence
Medical transcriptionists work in a variety of settings, including medical clinics, doctors' offices, hospitals, private transcription businesses, and home offices. Some transcriptionists become supervisors, managers, and teachers, while others establish their own transcription companies.

**Learning Outcomes** The graduate will:
- demonstrate knowledge of medical terminology.
- demonstrate knowledge of anatomy and physiology, disease processes, signs and symptoms, medications, and laboratory values.
- demonstrate knowledge of clinical specialty (or specialties) as appropriate.
- demonstrate skill with standard medical transcription guidelines and practices.
- demonstrate skill in English usage, grammar, punctuation, style, and editing.
- provide a high level of quality and security of patient health information (PHI).
- demonstrate detailed knowledge of HIPAA.
- demonstrate a commitment to excellence.

**Wages** Average pay in Oregon in 2009 is approximately $14.64 per hour.

**Costs in Addition to Tuition (estimate)** - Subject to change without notice.

Program Costs ................................................................. $1,200

**Admission Information** Application and admission into the Health Records Technology Program is required. Admission and Application information is found on the web at: lanecc.edu/hp/hrt/

**Cooperative Education (Co-op)** Co-op is a directed elective for the HRT Program. Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Contact the Cooperative Education department, Bldg. 19, 541.463.5203.

**Counseling and Advising** For Counseling and Advising assistance in meeting program or application requirements, please go to Counseling and Advising in building 1, room 103 or e-mail HRTProgram@lanecc.edu

**Program Coordinator:** Shelley K. Williams, RN, BA, 541.463.5182, williamSSK@lanecc.edu

**Course Requirements**

1. Prerequisites are required for some courses. See course descriptions.
2. All BT, CIS, HO, HIM, HIT, MTH, SP, and WR courses must be completed with a letter grade, not P/NP, and must be passed with a grade of "C" or better to satisfy program requirements. Other courses may be completed with a "Pass" or grade of "C-".
3. Completion of BI 231, 232, and 233 with a "C" or better is an acceptable equivalent for HO 150 and HO 152.
4. Completion of series HIM 270, HIM 273, and HIM 275 may be substituted for HO 114 Introduction to Coding.
5. Total of 6 credits of HIT 197 Medical Transcription 3 is required for certificate.

**Prerequisites to Apply**

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<td>CIS 101 Computer Fundamentals</td>
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<td>CS 120 Concepts of Computing: Info Processing</td>
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**Fall**

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<tr>
<td>HIT 120 Introduction to Health Records</td>
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<td>HO 150 Human Body Systems 1</td>
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<td>HO 190 Medical Formatting</td>
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<td>HIT 195 Medical Transcription 1</td>
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<td>HIT 104 Clinical Terminology</td>
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**Winter**

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<th>Course Requirement</th>
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<tr>
<td>HIT 196 Medical Transcription 2</td>
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<tr>
<td>HO 114 Introduction to Coding</td>
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<td>HO 152 Human Body Systems 2</td>
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<td>HO 220 Legal and Ethical Aspects of Health Care</td>
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**Spring**

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<tr>
<td>HIT 280 Co-op Ed: Health Records</td>
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<tr>
<td>HIT 154 Introduction to Disease Processes</td>
<td>3</td>
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<tr>
<td>HIT 197 Medical Transcription 3</td>
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<tr>
<td>HO 112 Medical Insurance Procedures</td>
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**Summer**

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**Hospitality Management**

**Offered by Culinary Arts and Hospitality Management, 541.463.3503**

**Two-Year Associate of Applied Science Degree**

**Career Pathway Certificate of Completion, Meeting, Convention, and Special Events Manager**

**Purpose** Trains graduates for exciting, varied careers in several areas, such as hotel management, meeting and special event management, restaurant management and ownership, and travel and tourism-related businesses. Upon completing this degree program in Hospitality Management students will have opportunities for challenging and rewarding careers that can take them around the world if they so choose.

**Learning Outcomes** The Hospitality Management Program graduate will:
- Explore careers in the Hospitality Industry.
- demonstrate job search and interviewing skills.
- develop employability skills required for the Hospitality Management Industry.
- demonstrate technological literacy to support the Hospitality Management Industry.
- apply problem solving and decision making processes to Hospitality Management situations.
• practice effective communication skills for the Hospitality Management workplace.
• practice customer service skills required in Hospitality Management.
• review financial records and accounts applicable to Hospitality Management operations.
• explore the legal and ethical environment of the Hospitality Management industry.
• understand economic principles of the Hospitality Management industry.
• understand safe working habits for the Hospitality Management industry.
• participate in Hospitality Management work-based learning experiences.
• demonstrate oral communication skills required in Hospitality Management.
• understand and demonstrate business and financial management.
• evaluate leadership styles appropriate for the Hospitality workplace.
• explain basic hotel departments and functions.
• determine appropriate guest service strategies within the Hospitality industry.
• characterize supervisory and management functions.
• summarize management practices for the food industry.
• understand appropriate environmental function and sustainable standard operating procedures.
• understand marketing skills needed in the Hospitality industry.

Costs (Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition.)

Resident Tuition and Student Fees............................... $8,917
Hospitality Management Books .................................... $929
Hospitality Management Fees....................................... $640

Total Estimate $10,486

Hospitality Management course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Hotel, Motel and Resort Desk Clerk
Job Openings Projected through 2020
Lane County openings - 11 annually
Statewide openings - 192 annually

Wages
Lane County average hourly - $10.44; average annual - $21,719
Oregon average hourly - $10.94; average annual - $22,757

Tour Guides and Escorts
Job Openings Projected through 2020
Lane County openings - 4 annually
Statewide openings - 35 annually

Wages
Lane County average hourly - $11.82; average annual - $24,577
Oregon average hourly - $11.11; average annual - $23,098

Meeting and Convention Planners
Job Openings Projected through 2020
Lane County openings - 2 annually
Statewide openings - 27 annually

Wages
Lane County average hourly - $19.28; average annual - $40,097
Oregon average hourly - $21.14; average annual - $43,958

Accreditation The two-year AAS degree program is accredited by the Accreditation Commission for Programs in Hospitality Administration (ACPHA). Students graduating from the program will receive national certification status as a Certified Hospitality Graduate (CHG).

Licensing or Other Certification Exams Students completing certain classes that comply with the American Hotel and Lodging Association (AHLA) or National Restaurant Association Education Foundation (NRAEF) may receive Certificates of Completion from these organizations. During the course of the program, students may earn a National Restaurant Association Education Foundation (NRAEF) Serv-Safe Certification as well as other NRAEF Certificate examinations for various courses.

Prerequisites Must be a credit-level student. Students are strongly advised to enter fall term. Complete college placement tests with the following minimum scores: writing-64, reading-68 and readiness for MTH 025 – taking Math Placement Test Parts A, B and C – 7 out of 10 in each part, and attach copies of test score sheets to application. Students with prior college credit, must attach a copy of transcript(s), and are highly recommended to take the Placement tests and attaching those scores as well. Math must be current within one year or a placement test will need to be taken. A Lane County Food Handlers Card is required for entry into the program.

Admission Information A separate application to the program is required. Admission information is available from the Culinary Arts and Hospitality Management office, Building 19, Room 202 or online at lanecc.edu/culinary. Or email: CulinaryHosp Programs@lanecc.edu

Cooperative Education (Co-op) Students earn credit for on-the-job work experience related to educational and career goals. Through Co-op, students can develop and practice skills, expand career knowledge, and make contacts for future employment. For more information contact Joe McCully, Cooperative Education Coordinator, Bldg.19, Rm. 210, 541.463.3516, mccully@lanecc.edu

Program Contact Wendy Milbrat, Administrative Support Specialist, 541.463.3503, milbratw@lanecc.edu; or email: Culinary Hosp Programs@lanecc.edu

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.
3. Directed electives may be met in any term of the two-year program. Check current class schedule for which Directed Electives are offered in a given term.
4. HRTM 105, HRTM 106, CA 159, and CA 200 may be taken fall, winter, and/or spring terms to complete first year of program.
5. Students may take Cooperative Education in any term approved by the coordinator.
6. Cooperative Education can be substituted for one term of HRTM 225 Banquet Operations.
7. General Education courses may be completed at any time, including prior to program entry. Choices are listed on the Associate of Applied Science degree page.
8. Students interested in transferring to a four-year institution should:
   Complete WR 122 and WR 123 to fulfill the Arts and Letters requirements for the AAS.
   Add MTH 111 and MTH 112 courses.

General Education Requirements
Mathematics (MTH 025 or higher) ........................................... 3
Science/Math/Computer Science ............................................. 3
Arts and Letters requirement ................................................. 3
Human Relations Requirement ................................................. 3
Choice of: ............................................................................. 3
Social Science or
Science/Math/Computer Science or
Arts and Letters requirement ................................................. 3
Writing requirement ............................................................ 3
Physical Education or Health ................................................. 3

Total Credits 21

Fall
CA 159 Kitchen Fundamentals ................................................. 2
CA 175 Foodservice Sanitation and Safety ................................ 2
CA 200 Menu Management .................................................... 3
HRTM 105 Restaurant Operations .......................................... 3
HRTM 106 Introduction to Hospitality Management ............... 3
HRTM 225 Banquet Operations ............................................. 2

Total Credits 15

Winter
HRTM 110 Hospitality Sales and Marketing ............................ 3
HRTM 140 Hospitality Law and Security ................................. 3
HRTM 220 Sustainability in the Hospitality Industry ............... 2
HRTM 225 Banquet Operations ............................................. 2
General Education Requirement ............................................. 3

Total Credits 13

Spring
HRTM 225 Banquet Operations ............................................. 2
Directed Electives ............................................................... 8
General Education Requirements ......................................... 6

Total Credits 16

Summer
HRTM 280 Co-op Ed: Hospitality Management .......................... 7-8

Total Credits 7-8

Fall
HRTM 230 Hotel Operations 1 ................................................ 3
HRTM 260 Hospitality Human Resources and Supervision ........ 3
HRTM 265 Hospitality Financials 1 ......................................... 3
General Education Requirement ............................................. 3
Directed Electives ............................................................... 4-6

Total Credits 16-18

Winter
HRTM 231 Hotel Operations 2 ................................................ 3
HRTM 275 Hospitality Financials 2 ......................................... 3
HRTM 292 Dining Room and Kitchen Lab ............................... 2
General Education Requirement ............................................. 6

Total Credits 14

Meeting, Convention, and Special Events Manager

Career Pathway Certificate of Completion

The Career Pathways Certificate program for a Meeting, Convention, and Special Events Manager is for students that want to learn how to manage meetings, conventions, and special events. All of the classes offered in this program apply directly to an Associate of Applied Science degree in Hospitality Management.

Learning Outcomes The graduate will:

- explore careers in the Hospitality industry.
- demonstrate job search and interviewing skills.
- demonstrate technological literacy to support the Hospitality Management Industry.
- practice customer service skills required in Hospitality Management.
- review financial records and accounts applicable to Hospitality Management operations.
- explore the legal and ethical environment of the Hospitality Management industry.
- understand economic principles of the Hospitality Management industry.
- understand safe working habits for the Hospitality Management industry.
- understand and demonstrate business and financial management.
• evaluate leadership styles appropriate for the Hospitality workplace.
• explain basic hotel departments and functions.
• determine appropriate guest service strategies within the Hospitality industry.
• characterize supervisory and management functions.
• summarize management practices for the food industry.
• understand marketing skills needed in the Hospitality industry.
• provide effective student learning and expansion of knowledge in the field of event management.
• provide study of Sustainability principles in the industry focused on meetings, conventions, and special events.

Admission Information A separate application to the program is required. Admission information is available from the Culinary Arts and Hospitality Management Office, Building 19, Room 202 or online at lanecc.edu/culinary. Or email: CulinaryHosp-Programs@lanecc.edu

HRTM 106 Introduction to Hospitality Management ........ 3
HRTM 109 Principles of Meeting and Convention Management .............................................. 3
HRTM 225 Banquet Operations ............................................. 2
HRTM 230 Hotel Operations 1 ............................................. 3
HRTM 260 Hospitality Human Resources and Supervision ............................................................ 3

Total Credits 14

Winter
HRTM 110 Hospitality Sales and Marketing.......................... 3
HRTM 225 Banquet Operations ............................................. 2
HRTM 231 Hotel Operations 2 ............................................. 3
HRTM 280 Co-op Ed: Hospitality Management .................... 2

Total Credits 10

Spring
HRTM 209 Advanced Principles of Meeting, Convention, and Special Event Management ................ 3
HRTM 225 Banquet Operations ............................................. 2
HRTM 280 Co-op Ed: Hospitality Management .................... 2

Total Credits 7

Summer
HRTM 280 Co-op Ed: Hospitality Management .................... 4

Total Credits 4

Human Services
Offered by the Social Science Department, 541.463.5427
Two-Year Associate of Applied Science Degree

Career Pathway Certificate of Completion, Adult Development and Aging

Purpose Human service workers are trained to provide a wide range of emotional and practical support services aimed at addressing the needs of people facing a variety of challenges in their lives. Human service workers are employed in diverse settings, serving children, adolescents, families, and adults. For example, human service workers can be found staffing crisis lines; supervising young juvenile offenders; working with the elderly to help them maintain their independence; arranging for services for homeless families; coordinating recreational services for people with disabilities; providing parent education; counseling and case managing individuals experiencing addiction; and advocating for victims of domestic or sexual violence. Coursework includes classes that meet basic requirements for Oregon state certification for chemical dependency counselors. Lane Community College’s Human Services Program prepares students for entry-level employment in public and private non-profit agencies. Most human services careers require a criminal background check.

Learning Outcomes The graduate will:
• be able to communicate effectively with others.
• develop the competency required to work with people from diverse backgrounds.
• assess an individual or a family’s needs.
• develop a plan of action using client’s strengths, and link people with community resources.
• use appropriate library and information resources to research professional issues and support lifelong learning.
• formulate questions that can be addressed with data and collect, organize and display relevant data to answer them.
• understand and apply evidence-based practices.

Job Openings Projected through 2020
Social and Human Service Assistants
Lane County openings - 32 annually
Statewide openings - 271 annually

Wages
Lane County average hourly - $13.39; average annual - $27,861
Oregon average hourly - $14.44; average annual - $30,021

Job Openings Projected through 2020
Substance Abuse and Behavioral Disorder Counselors
Lane County openings - 8 annually
Statewide openings - 100 annually
Lane County average hourly - $16.86; average annual - $35,057
Oregon average hourly - $20.99; average annual - $43,652

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
Resident Tuition and Student Fees........................................ $9,255
Books and supplies............................................................... $3,200

Total Estimate $12,455

Human Services course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Admission Information Social Science Division 541.463.5427

Academic Advising Resource Moodle site: academicadvising.lanecc.edu/course/view.php?id=30

Cooperative Education (Co-op) Co-op is a significant field placement component that provides opportunities for students to explore their career options while gaining practical experience in the field. Contact Garry Oldham, Human Services Co-op Ed Coordinator, Center Bldg., Rm. 410G, 541.463.5194, oldhamg@lanecc.edu

Course Requirements
1. All required CG, DRF, and Directed electives courses, and all HS courses except HS 266 must be taken for a letter grade, not P/ NP, and must be passed with a “C-” or better to fulfill program requirements.
2. See course descriptions for prerequisite and corequisite information.
3. A total of 18 credits of CG 280HS Cooperative Education: Human Services must be completed.
4. HS 155 Interviewing Theory and Techniques must be completed prior to enrollment in HS 224 or 232 (on the directed elective list).
5. Courses with WR, SP, ANTH, PSY prefixes and all Science/Math, Computer Science courses are transferable and may be applicable to an AAOT degree.
6. For choices in Science, Math, and Computer Science, see AAOT degree description, page 38.

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<th>First Year</th>
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<tbody>
<tr>
<td>HS 155 Personal Effectiveness for Human Service Workers</td>
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<td>HS 201 Introduction to Human Services</td>
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<tr>
<td>HS 226 Ethics and Law</td>
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<td>CG 280HS Co-op Ed: Human Service</td>
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<td>WR 121 Introduction to Academic Writing</td>
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<tr>
<td>HS 155 Interviewing Theory and Techniques</td>
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<td>MTH 025 Basic Mathematics Applications or higher</td>
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<td>CG 280HS Co-op Ed: Human Service</td>
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<td>WR 122 Composition: Argument, Style and Research</td>
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<td>SP 100 Basic Communication</td>
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<td>SP 111 Fundamentals of Public Speaking</td>
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<td>SP 112 Persuasive Speech</td>
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<td>SP 130 Business and Professional Speech</td>
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<td>SP 218 Interpersonal Communication</td>
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<tr>
<td>ANTH 103 Cultural Anthropology</td>
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<td>CG 280HS Co-op Ed: Human Service</td>
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<td>HS 231 Advanced Interviewing and Counseling</td>
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<td>HS 265 Casework Interviewing</td>
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<tbody>
<tr>
<td>CG 280HS Co-op Ed: Human Service</td>
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<tr>
<td>HS 267 Case Management in Human Services</td>
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<tr>
<td>PSY 201 General Psychology</td>
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<td>HS 267 Cultural Competence in Human Services</td>
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<td>HE 209 Human Sexuality</td>
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<td>HE 250 Personal Health</td>
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<td>HE 252 First Aid</td>
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<td>HE 255 Global Health</td>
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<td>HE 275 Lifetime Health and Fitness</td>
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<td>HS 224 Group Counseling</td>
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<td>HS 232 Cognitive-Behavioral Strategies</td>
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<td>PSY 203 General Psychology</td>
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</table>

**Directed electives**

Students are required to take 9 credit hours in electives. Directed electives courses must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.

**Career Development and Aging**

**Career Pathway Certificate of Completion**

**Purpose** This program prepares students to assist mature and elderly adults in a variety of settings.

**Learning Outcomes** The graduate will:

- be able to communicate effectively with others.
- develop the competency required to work with people from diverse backgrounds.
- assess an individual or a family’s needs.
- describe the aging process and the impact of aging on an individual’s intellectual, social, cultural and spiritual life.
- explain the diversity of experiences, and challenges, found amongst the aging population.
- demonstrate skills for effectively interacting with mature and elderly adults.

**Employment Trends** The U.S. Bureau of Labor Statistics projects a 35 percent increase in gerontology-related jobs by 2014. Historically, these careers have been primarily in healthcare settings. While demand for people to work in health care continues to remain high, opportunities to assist individuals and their families access social services to maintain their health and independence is expected to grow substantially. Additionally, as the general population ages, the nation’s workforce will benefit from knowledge about aging and how to meet the needs of this diverse population of older Americans.

**Wages** In Lane County, wages range from $9 to $20 an hour with an average annual salary of $28,382 (Oregon Employment Division)

**Costs in Addition to Tuition (estimate)** - Subject to change without notice.

| Books | $400 |

**Admission Information** Social Science Division, 541.463.5427

**Cooperative Education (Co-op)** Co-op is a significant field placement component that provides opportunities for students to explore their career options while gaining practical experience in the field. Contact Garry Oldham, Human Services Co-op Coordinator, Center Bldg., Rm. 410G, 541.463.5194, oldham@lanecc.edu

**Course Requirements**

1. All courses must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
Human Services: Criminal Justice
Offered by the Social Science Division, 541.463.5427
Two-Year Associate of Applied Science Degree

Purpose To offer men and women preparation for career employment in police, adult and juvenile corrections, security management, and other public service careers. Transferable to four-year colleges and universities, the program is also job entry oriented, depending on the student needs. Public Safety Careers require criminal and personal background checks.

Learning Outcomes The graduate will:

- express a thorough knowledge of the criminal justice system.
- apply sociological theory to better understand criminal behavior.
- describe the dynamics of interviews and interrogations in investigations.
- explain the nature of public safety career paths and their own qualifications for various careers in criminal justice.
- understand the importance of inter-disciplines and the need for a well-rounded education in public safety.
- qualify for education requirements for entry-level public safety careers.
- use appropriate library and information resources to research professional issues and support lifelong learning.
- formulate questions that can be addressed with data and collect, organize and display relevant data to answer them.

Job Openings Projected through 2020
Lane County openings - 3 annually
Statewide openings - 58 annually

Wages
Oregon average hourly - $25.13; average annual - $52,270
Lane County average hourly - $25.73; average annual - $53,530

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
Resident Tuition and Student Fees................................. $9,739
Books and supplies.................................................... $3,200
Total Estimate $12,939

Cooperative Education (Co-op) Co-op provides opportunities for field experience with various local public safety agencies including local police, sheriffs, corrections, court services, and commercial security organizations. Students may participate on a full or part-time basis. Contact John del Nero, Criminal Justice Co-op Coordinator, Center Bldg., Rm. 419E, 541.463.5286, delneroj@lanecc.edu

Admission Information Social Science Division, John delNero, Program Coordinator, 541.463.5286, delneroj@lanecc.edu

1. Prerequisites are required for some courses. See course descriptions.
2. All CJA courses must be completed with a letter grade of “C” or better to satisfy program requirements.
3. PSY, SOC, and WR courses must be completed with a letter grade.
4. Courses that satisfy transfer general education requirements are recommended: BI, BOT, Z, CH, G, GS, PH
5. Directed electives (choose 6 credits total)
   - CJA 201 Juvenile Delinquency .......... 3 credits
   - CJA 210 Criminal Investigation ........ 4 credits
   - CJA 214 Introduction to Forensic Science .... 4 credits
   - CJA 232 Correctional Casework ........ 3 credits
   - CJA 243 Narcotics and Dangerous Drugs .... 3 credits
   - SOC 211 Social Deviance ................. 3 credits
6. CJA 214 Introduction to Forensic Science can be used to meet Directed Elective or Biological/Physical Science Elective.
7. CH 114 Forensic Chemistry can satisfy the Biological or Physical Science requirement

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CJA 100 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Directed elective</td>
<td>3</td>
</tr>
<tr>
<td>SOC 204 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SP 105 Listening and Critical Thinking</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 Composition: Introduction to Academic Writing</td>
<td>4</td>
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<tr>
<td>Total Credits</td>
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Winter

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Letters elective</td>
</tr>
<tr>
<td>CJA 110 Introduction to Criminal Justice</td>
</tr>
<tr>
<td>SOC 205 Social Stratification and Social Systems</td>
</tr>
<tr>
<td>SP 100 Basic Communication</td>
</tr>
<tr>
<td>WR 122 Composition: Argument, Style and Research</td>
</tr>
<tr>
<td>Total Credits</td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CJA 101 Introduction to Criminology</td>
</tr>
<tr>
<td>CS 120 Concepts of Computing: Information Processing, or higher computer science course</td>
</tr>
<tr>
<td>SOC 206 Institutions and Social Change</td>
</tr>
<tr>
<td>Choice of:</td>
</tr>
<tr>
<td>HE 250 Personal Health</td>
</tr>
<tr>
<td>HE 252 First Aid</td>
</tr>
<tr>
<td>HE 275 Lifetime Health and Fitness</td>
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<td>Total Credits</td>
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Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Biological or Physical Science requirement</td>
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</tr>
<tr>
<td>CJA 213 Interviewing and Interrogation</td>
<td>3</td>
</tr>
<tr>
<td>CJA 220 Introduction to Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>PS 201 American Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td>4</td>
</tr>
<tr>
<td>PHL 201 Introduction to Philosophy: Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL 205 Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 103 Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>16-17</td>
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</tbody>
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Winter

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological or Physical Science elective</td>
</tr>
<tr>
<td>CJA 222 Criminal Law: Procedural Issues</td>
</tr>
<tr>
<td>CJA 280 Co-op Ed: Criminal Justice</td>
</tr>
<tr>
<td>Directed elective</td>
</tr>
<tr>
<td>PS 202 State and Local Government and Politics</td>
</tr>
<tr>
<td>Total Credits</td>
</tr>
</tbody>
</table>
**Human Services: Juvenile Corrections**

Offered by the Social Science Division, 541.463.5427

**Two-Year Associate of General Studies**

**One-Year Certificate of Completion**

**Purpose** To train individuals to work directly with juvenile offenders in various settings, including Oregon Youth Authority, as well as other public, private, and non-profit agencies/programs.

**Learning Outcomes** The graduate will:
- effectively supervise juvenile offenders.
- monitor and ensure a safe environment for juvenile offenders.
- provide support services to juvenile offenders.
- provide social and life skills training to juvenile offenders.
- assist in the treatment process and provide crisis intervention with juvenile offenders.

**Employment Trends** There had been a decline in juvenile crime during the late 1990’s, but that trend tends to be shifting. The resurgence of youth gangs since the year 2000 has reflected an increase in gang homicides and other criminal activity. Nearly all juvenile correction facilities are filled to capacity, necessitating more correctional facilities and the demand for more juvenile corrections personnel. This certificate meets the minimum level pre-employment requirement for the Oregon Youth Authority.

**Wages** Beginning wage for a Group Life Coordinator II is approximately $2,851-$4,141 monthly, but salary and benefit packages vary greatly depending on the employing agency and geographical location.

**Admission Information** Social Science Division, John delNero, Program Coordinator, 541.463.5286, delnero@lanecc.edu

**Cooperative Education (Co-op)** Co-op provides opportunities for students to work in regional organizations to develop and expand skills, explore career options, and make contacts for future employment. Students connect theory and practice while earning transferable elective college credit. Contact John delNero, Juvenile Corrections Co-op Coordinator, 541.463.5286, delnero@lanecc.edu

**Course Requirements**

1. Prerequisites are required for some courses. See course descriptions.
2. All CJA, HS, PSY, and SOC courses must be completed with a letter grade of "C" or better to satisfy program requirements.
3. WR courses must be completed with a letter grade.

**Two-Year Associate of General Studies**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE 252 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>HS 206 Counseling the Criminal Addict</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 095 Intermediate Algebra or higher</td>
<td>5</td>
</tr>
<tr>
<td>CJA 280 Co-op Ed: Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>PS 203 American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSY 202 General Psychology</td>
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<td>Arts and Letters elective</td>
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<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Winter</th>
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</thead>
<tbody>
<tr>
<td>Arts and Letters Requirement</td>
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<tr>
<td>CJA 201 Juvenile Delinquency</td>
</tr>
<tr>
<td>HS 205 Youth Addiction</td>
</tr>
<tr>
<td>WR 122 Composition: Argument, Style and Research</td>
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<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 060 Beginning Algebra or higher</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>CJA 101 Introduction to Criminology</td>
</tr>
<tr>
<td>HS 209 Crisis Intervention and Prevention</td>
</tr>
<tr>
<td>Science/Math/Computer Science Requirement</td>
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<tr>
<td>SOC 225 Social Problems</td>
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<tr>
<td><strong>Total Credits</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Winter</th>
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<tbody>
<tr>
<td>Arts and Letters Requirement</td>
</tr>
<tr>
<td>PSY 201 General Psychology</td>
</tr>
<tr>
<td>Science/Math/Computer Science Requirement</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>PSY 202 General Psychology</td>
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<tr>
<td>PSY 215 Lifespan Development</td>
</tr>
<tr>
<td>CS 120 Concepts of Computing: Information Processing</td>
</tr>
<tr>
<td>Arts and Letters Requirement</td>
</tr>
<tr>
<td>Science/Math/Computer Science Requirement</td>
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<tr>
<td><strong>Total Credits</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Winter</th>
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<tbody>
<tr>
<td>PSY 203 General Psychology</td>
</tr>
<tr>
<td>CJA 232 Correctional Casework</td>
</tr>
<tr>
<td>PSY 239 Introduction to Abnormal Psychology</td>
</tr>
<tr>
<td>Science/Math/Computer Science Requirement</td>
</tr>
<tr>
<td>CJA 280 Co-op Ed: Juvenile Corrections</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>

**Human Services: Juvenile Corrections**

One-Year Certificate of Completion

Gainful Employment Disclosure

Standard Occupational Classification: 21-1021.00

Go to the Department of Labor’s O*Net website for a profile of this occupation:

- Child, Family, and School Social Workers
- Probation Officers and Correctional Treatment Specialists

How many students complete the Human Services: Juvenile Corrections 1-year Certificate?

One student completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?

Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

How many jobs are forecast in this occupation between 2010-20?

- Lane County: 1 positions
- Statewide: 103 positions

What wages are forecast for this occupation?

- Lane County average hourly - $29.83; average annual - $62,040
- Oregon average hourly - $24.75; average annual - $51,474

How much will the program cost?

(Estimates based on 2012-13 data for full-time students. Students
Learning Outcomes The graduate will:
- perform the duties and responsibilities of the millwright trade.
- develop machine shop skills in troubleshooting.
- demonstrate and use industry safety standards.
- identify mechanical and/or electrical industrial systems.
- develop attitudes conducive to improved customer relations skills in the millwright trade.
- develop communication and critical thinking skills necessary for job advancement.
- use appropriate library and information resources to research professional issues and support lifelong learning.
- access library, computing, and communications services, and appropriately select information and data from regional, national, and international networks.
- apply appropriate formulas to mathematical situations.
- adapt to new job requirements to qualify for advancement in becoming lead supervisors.
- complete 8000 hours State of Oregon-approved on-the-job-training.

Job Openings Projected through 2020
Lane County openings - 2 annually
Statewide openings - 32 annually

Wages
Lane County average hourly - $22.34; average annual - $46,471
Oregon average hourly - $27.25; average annual - $56,679

Although wages vary, the average starting wage of an apprentice is about 50 percent of a journey worker's rate of pay. Apprentices usually earn a five-percent raise every six months if training and school performance is satisfactory. Check the Bureau of Labor and Industries website: boli.state.or.us.

Costs (Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition and fees.)

Resident Tuition and Student Fees................................. $10,325
Books and supplies................................................... $1,350

Total Estimate $11,675

Program Certification An apprenticeship "Award of Completion" issued by the Oregon Bureau of Labor and Industries Apprenticeship and Training Division certifies that an individual has been trained in all aspects of an occupation and has met the requirements for program completion. This certificate is recognized throughout Oregon and industry-wide as a valid indicator of high quality, standardized training, and it provides on-the-job training documentation for community college credit.

In addition, the Oregon community college Industrial Mechanics and Maintenance Technology Apprenticeship program provides statewide transfer opportunities, laddered certificates of completion, and an optional transfer path into Oregon Institute of Technology Bachelor of Science in Operations Management degree. The Industrial Mechanics and Maintenance Technology Apprenticeship program includes an advising guide with a set of recommended courses that satisfy both the AAS and the Oregon Transfer Module (OTM). Students who complete the

Industrial Mechanics and Maintenance Technology Apprenticeship

Offered by the Advanced Technology Division, 541.463.5380

Associate of Applied Science Degree, Industrial Mechanics and Maintenance Technology Apprenticeship

Certificate of Completion, Industrial Mechanics and Maintenance Technology Apprenticeship

Purpose To provide a structured system of training in millwright trades or occupations, leading to certification and journey-level status, only for apprentices who are sponsored by individual employers, accepted by a Joint Apprenticeship Training Committee, and registered with the State of Oregon Bureau of Labor and Industries.
Admission Information
Admission to the millwright trade is usually conducted as an internal process with the employer. Information is available at the Oregon Bureau of Labor and Industries website: boli.state.or.us.

Pre-requisites
Minimum placement scores – Reading 68, Writing 64, and Math parts A, B, C with 7/10 score. Note: See the counselor or advisor to obtain the suggested entry-level skills for successful completion of these programs.

Criteria Used for Admission
Students must be registered apprentices with the State of Oregon Bureau of Labor and Industries and accepted by a Joint Apprenticeship Training Committee. Selection to the program is by a point system from a pool of qualified applicants. Information on the point system is available at the Oregon Bureau of Labor and Industries website: boli.state.or.us. In most cases minimum qualifications to begin an apprenticeship include a minimum age of 18 years, a high school diploma with a GPA of 2.0 or higher or GED, and a minimum of a ‘C’ grade for one year of high school algebra (or equivalent).

Industrial Mechanics and Maintenance Technology Apprenticeship

Associate of Applied Science

To earn the degree, a student must:
• complete 8000 hours State of Oregon-approved on-the-job training and provide a State of Oregon Apprenticeship Training Journey-man card or BOLI-ATD Certificate of Completion.
• demonstrate an equivalency of 90 credit hours, with a minimum of 24 credits at Lane, including the last term at Lane.
• complete all requirements for an AAS degree as listed below.
• earn a cumulative grade point average above 2.0 at Lane or transfer credits earned at other regionally accredited colleges or universities.

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. WR 115W and MTH 060 must be must be passed with a grade of Pass or “C-” or better to satisfy program requirements.
3. General education course choices are listed on the Associate of Applied Science degree page.

AAS requirements

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
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</tr>
<tr>
<td>WR 115W Intro to College Writing:</td>
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</tr>
<tr>
<td>Workplace Emphasis or higher-level writing</td>
<td>3</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PE/Health Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science/Math/Computer Science requirement</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td>3</td>
</tr>
<tr>
<td>Arts and Letters requirement</td>
<td></td>
</tr>
<tr>
<td>Human Relations/Social Science requirement</td>
<td></td>
</tr>
<tr>
<td>Science/Math/Computer Science requirement</td>
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</tr>
<tr>
<td>Journeyman card from Oregon Bureau of Labor and Industries Apprenticeship and Training Division, prior certification.</td>
<td>22</td>
</tr>
<tr>
<td>Millwright Core Related Training</td>
<td>43</td>
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<tr>
<td>APR 150 The Millwright and Shop Safety</td>
<td>5</td>
</tr>
</tbody>
</table>

Industrial Mechanics and Maintenance Technology Apprenticeship

Certificate of Completion

Students may earn a Certificate of Completion in Industrial Mechanics and Maintenance Technology Apprenticeship by successfully completing 43 core related training credits with a “C” or better in all courses, and completing related instruction in communications, computer applications, and human relations.

Learning Outcomes
Graduates will:
• perform the duties and responsibilities of the millwright trade.
• identify mechanical and/or electrical industrial systems.

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. WR 115W and MTH 060 must be must be passed with a grade of Pass or “C-” or better to satisfy program requirements.
3. Human Relations course choices are listed on the Associate of Applied Science degree page.

To earn the certificate, student must:
• complete State of Oregon-approved on-the-job training and provide a State of Oregon Apprenticeship Training Journey-level card or BOLI-ATD Certificate of Completion, 8000-Hour BOLI-ATD Trade: Industrial Millwright.
• complete related instruction credits (communication, computation, human relations). 10
• complete core-related training credits. 43

Total Credits 53

Academic Advising Online
Free online resources are available for ALL majors!
On laneecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Legal Assistant
Two-Year Associate of Applied Science Degree, Legal Assistant

Note This program is no longer offered at Lane. Students interested in this field of study should consider the Two-Year Administrative Office Professional program with Legal directed electives, or the Legal Office Skills Career Pathway Certificate of Completion (see Administrative Office Professional program), or the Paralegal Studies AAS offered through Umpqua Community College (see Paralegal Studies).

For additional information, contact Deb Hupcey in the Counseling Department, 541.463.5635 or hupceyd@lanecc.edu.

Manufacturing Technology
Offered by the Advanced Technology Division, 541.463.5380

Two-Year Associate of Applied Science Degree
Two-Year Associate of Applied Science Degree Option: Computer Numerical Control Technician
Two-Year Certificate of Completion
Certificate of Completion, Basic Manufacturing/Machine Technician

Purpose To provide training in basic principles and fundamentals in manufacturing (machine shop) and related work. A graduate qualifies for entrance occupations as a machinist in manufacturing shops or related machine tool industries. Employment opportunities include machine repair and maintenance shops, tool and die shops, manufacturing industries, metalworking plants, repair and maintenance shops for mill maintenance shops, tool and die shops, manufacturing industries, metalworking plants, repair and maintenance shops for mill and construction contractors, high tech and specialty machine shops, and production machine shops.

Learning Outcomes The graduate will:
• demonstrate the use of setups and operation of all standard machine tools employed by the modern machine shop.
• demonstrate and use industrial safety standards for safe operation of all machine tools.
• access library, computing, and communications services and obtain information and data from regional and national networks.
• use basic math skills, formulas and right angle trigonometry.

The CNC Option graduate will also:
• set up, program, and operate 3-Axis CNC milling machines with a G-code controller and 2-Axis CNC lathes with a G-code controller.
• design parts with CAM software and apply to CNC machine tools.

Job Openings Projected through 2020
Lane County openings – 10 annually
Statewide openings - 126 annually

Wages
Lane County average hourly - $19.76; average annual - $41,098
Oregon average hourly - $21.10; average annual - $43,891

Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
Resident Tuition and Student Fees......................... $10,160
Differential Fees* ............................................. $1,300
Other Course/Program Costs............................... $774
Tools.............................................................. $1,075
Books and supplies.......................................... $850

Total Estimate $14,159

*This is the total of all the differential fees attached to Manufacturing Technology courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Prerequisites Minimum placement score– of 68 in Reading OR completion of RD 080 OR RD 087 AND EL115 OR prior college. A high school diploma or equivalent is recommended for all applicants to this program.

Note See a counselor or advisor to learn what entry-level skills are suggested for successful completion of this program.

Admission Information See lanecc.edu/advtech/at/admission-information or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Manufacturing Technology Co-op Coordinator and with instructor consent, a maximum of 18 Co-op credits may be earned in lieu of required Manufacturing Technology course credits. Contact Marv Clemmons, Manufacturing Technology Co-op Coordinator, Bldg. 12, Rm. 120C, 541.463.3158, clemmons@lanecc.edu

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. MFG 201 and 202 must be completed with a letter grade, not P/NP. All other MFG and MTH courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.
3. PE/Health courses must be completed with a Pass or “C-” or better to meet program requirements.
4. Arts and Letters, Human Relations, and Social Science course choices are listed on the Associate of Applied Science degree page.

Two-Year Associate of Applied Science Degree

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Winter</th>
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</thead>
<tbody>
<tr>
<td>MFG 197 Manufacturing Technology ..................</td>
<td>12</td>
<td>CS 120 Concepts of Computing: Information Processing or higher computer science course ..........</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra or higher mathematics ....</td>
<td>4</td>
<td>MFG 197 Manufacturing Technology ..................</td>
</tr>
<tr>
<td>WLD 151 Fundamentals of Metallurgy ................</td>
<td>3</td>
<td>PE/Health requirement .............................</td>
</tr>
</tbody>
</table>

Total Credits 19

Total Credits 19
## Manufacturing Technology Computer Numerical Control Technician Option

### Two-Year Associate of Applied Science Degree

#### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFG 197 Manufacturing Technology</td>
<td>12</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MTH 085 Applied Geometry for Technicians</td>
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<tr>
<td>WLD 151 Fundamentals of Metallurgy</td>
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<tr>
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#### Winter

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MFG 197 Manufacturing Technology</td>
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<tr>
<td>CS 120 Concepts of Computing: Information Processing or higher computer science course</td>
<td>4</td>
</tr>
<tr>
<td>PE/Health requirement</td>
<td>3</td>
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#### Spring

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<td>MFG 197 Manufacturing Technology</td>
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<tr>
<td>MFG 210 CAM 1</td>
<td>3</td>
</tr>
<tr>
<td>MFG 211 CAM 2</td>
<td>3</td>
</tr>
<tr>
<td>WR 115W Introduction to College Writing: Workplace</td>
<td>3</td>
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#### Second Year

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<tbody>
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<td>DRF 167 CAD 1</td>
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<tr>
<td>MFG 197 Manufacturing Technology</td>
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<tr>
<td>MFG 201 CNC Mill</td>
<td>6</td>
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<tr>
<td>MTH 085 Applied Geometry for Technicians</td>
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<table>
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<tr>
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<td>6</td>
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<tr>
<td>MFG 202 CNC Lathe</td>
<td>6</td>
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<tr>
<td>Choice of:</td>
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</table>

### Elective

- ENGR 280M Co-op Ed: Manufacturing (optional)

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### Manufacturing Technology

#### Two-Year Certificate of Completion

<table>
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<tr>
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<tbody>
<tr>
<td>MFG 197 Manufacturing Technology</td>
<td>3</td>
</tr>
<tr>
<td>MFG 208 CNC: Special Project</td>
<td>9</td>
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<tr>
<td>Arts and Letters requirement</td>
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<tr>
<td>Human Relations requirement</td>
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<td>Total Credits</td>
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</tbody>
</table>

#### Standard Occupational Classification: 17-3026.00

Go to the Department of Labor's O*Net website for a profile of this occupation:

Industrial Engineering Technicians

onetonline.org/link/summary/17-3026.00

Or check on these O*Net Related Occupations:

Materials Engineers onetonline.org/link/summary/17-2131.00
Inspectors, Testers, Sorters, Samplers, and Weighers onetonline.org/link/summary/51-9061.00

---

### Gainful Employment Disclosure

#### How many students complete the Manufacturing Technology 2-year Certificate?

One student completed this certificate in academic year 2011-12.

#### What was the on-time graduation rate for these students?

Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

#### How many jobs are forecast in this occupation between 2010-20?

Lane County: 13 positions

Statewide: 21 positions

#### What wages are forecast for this occupation?

Lane County average hourly - $10.61; average annual - $22,062
Oregon average hourly - $12.53; average annual - $26,065

#### How much will the program cost?

(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

- Resident tuition and fees $11,738
- Books, supplies, program costs $2,425
- On-Campus room and board Not offered

Total Estimated $14,163

---

### What’s included?

Program Costs: lanecc.edu/esfs/credit-fees-and-expenses

#### What is the median loan debt incurred by students who completed the program in 2012?

Federal Loans Not disclosed
Institutional financing Not disclosed

(For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than ten graduates.)

#### Course Requirements

1. Prerequisites are required for some courses. See course descriptions.

2. MFG 201 and 202 must be completed with a letter grade, not P/NP. All other MFG and MTH courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.

3. Human Relations and PE/Health course choices are listed on the Associate of Applied Science degree page.

---

#### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFG 197 Manufacturing Technology</td>
<td>12</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra</td>
<td>4</td>
</tr>
<tr>
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<td>4</td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
</tr>
</tbody>
</table>
Basic Manufacturing/Machining Technician

Certificate of Completion

Note: This curriculum is under revision during academic year 2013-14. It will no longer be offered as a Statewide Certificate of Completion, and there may be additional course options for students also completing Fabrication/Welding programs. Please consult an Advanced Technology division counselor or advisor for updated information about courses that meet the certificate requirements.

Purpose To provide training in basic principles and fundamentals in manufacturing (machine shop) and related work. This is a basic training certificate in fundamentals, and should not be confused with the proficiency levels acquired through more rigorous outcomes of 2-year programs in Manufacturing or Welding.

Learning Outcomes The graduate will:

• demonstrate the use of setups and operation of all standard machine tools employed by the modern machine shop.
• demonstrate and use industrial safety standards for safe operation of all machine tools.
• use basic math skills, formulas and right angle trigonometry.

Credits

- MFG 197 Manufacturing Technology ............................................. 12
- PE/Health requirement .............................................................. 3
- Total Credits 15

Winter

- MFG 197 Manufacturing Technology ............................................. 12
- WLD 111 Blueprint Reading for Welders .................................. 3
- Total Credits 15

Spring

- MFG 197 Manufacturing Technology ............................................. 12
- WLD 111 Blueprint Reading for Welders .................................. 3
- Total Credits 15

Second Year

Fall

- MFG 197 Manufacturing Technology ............................................. 12
- WLD 121 Shielded Metal Arc Welding ................................. 4
- Total Credits 16

Winter

- MFG 197 Manufacturing Technology ............................................. 6
- WR 115W Introduction to College Writing: Workplace Emphasis, or higher writing ........................................... 3
- Choice of: .................................................................................. 6
- MFG 201 CNC Mill
- MFG 202 CNC Lathe
- Total Credits 15

Spring

- MFG 197 Manufacturing Technology ............................................. 12
- Human Relations requirement .................................................. 3
- Total Credits 15

Note: See a counselor or advisor to learn what entry-level skills are suggested for successful completion of this program.

Massage Therapy

Offered by Continuing Education, 541.463.6100

Certificate of Completion, License Exam Preparation Program

Program approved by Oregon Board of Education and Oregon Board of Massage Therapists

Purpose To prepare graduates for careers as licensed massage therapists (LMT) and to qualify students for the licensure exam administered by the Oregon Board of Massage Therapists.

Learning Outcomes The graduate will:

• demonstrate entry-level knowledge and skills in the clinical curriculum content areas of massage therapy.
• demonstrate entry-level knowledge of anatomy/physiology, kinesiology and pathology.
• demonstrate professional standards, ethics and competence in the massage profession.
• develop therapeutic relationships that support health and well-being.
• collect and use client information to determine the appropriateness of massage therapy.
• develop a treatment plan.
• implement the treatment plan.
• evaluate the effectiveness of the treatment plan.
• maintain documentation.
• influence the advancement of the massage therapy profession.
• promote the benefits of massage therapy to the public.

Employment Trends Employment opportunities continue to increase statewide. Many Licensed Massage Therapists are self-employed.

Wages Oregon average hourly - $22.74; average annual - $47,305

Costs (Estimate based on 2013 tuition and fees. Consult Lane’s website for updated tuition.) - Subject to change without notice.

Tuition and fees ................................................................. $6,500
Textbooks ........................................................................... $500
Personal liability insurance – required.............................. $79
Three professional massages............................................. $180
Miscellaneous supplies .................................................. $75
Total $7,334

Licensed or Other Certification Exams Upon completion of the required courses, students are eligible to apply for Oregon Board of Massage Therapists Licensing Exams.

Prerequisite Students must be at least 18 years of age. Must apply for admission into the program.

Program Contact 541.463.6111, e-mail: calisek@lanecc.edu

Core Pre-licensing Program

Term 1 Contact Hours

- XBI 5979 Anatomy/Physiology/Pathology 1.................... 30
- XLMT 5972 Introduction to Palpation-Upper Body........ 35
- XLMT 5987 Introduction to Massage and Communication 20
- XLMT 5973 Massage 1 ..................................................... 35
Medical Office Assistant

Offered by the Health Professions Division, 541.463.5617

Two-Year Associate of General Studies

One-Year Certificate of Completion

Purpose To train the graduate for a successful career in the profession of medical assisting, including certification (Certified Medical Assistant®). The Certified Medical Assistant® is a vital member of the ambulatory health care team.

Learning Outcomes The graduate will:
• prepare patients for examination or treatment; take temperatures, measure height and weight, and accurately record information in the patient chart.
• physically assist patients onto and off exam table.
• sterilize instruments and stand by to assist as the physician examines or treats patients, or performs in-office surgeries.
• give medical care to patients, under the physician’s supervision, such as giving injections and drawing blood.
• perform certain diagnostic testing in the laboratory.
• perform administrative duties, which include managing an appointment schedule, organizing patients’ medical records, bookkeeping procedures, and processing insurance claims.
• use library resources for research and written assignments for a variety of purposes.
• perform mathematic equations associated with medication dosages as well as basic mathematics to process medical insurance claims.

Wages
Lane County average hourly - $15.71; average annual - $32,657
Oregon average hourly - $15.61; average annual - $32,469

Program Accreditation Medical Office Assistant, accredited by the Commission on Accreditation of Allied Health Education Programs, a specialized accrediting board recognized by the Council for Higher Education Accreditation, on recommendation of the Medical Assisting Education Review Board of the American Association of Medical Assistants Endowment, Commission on Accreditation of Allied Health Education Programs, 1361 Park Street, Clearwater, FL 33756, 727.210.2350.

Licensing or Other Certification Exams Required The eligible graduate is qualified to take the national certification examination administered by the American Association of Medical Assistants (AAMA), to become a Certified Medical Assistant®. For detailed information, contact the AAMA, aama-natl.org.

Admission Information Students are encouraged to consult a program advisor or counselor before applying for admission. The application and information on the point allocation system and transfer students is available in the Counseling and Advising Center and on the Medical Office Assistant website, lanecc.edu/hp/moa.

Cooperative Education (Co-op) During the required unpaid Co-op work experience in spring term, students rotate through local medical offices and clinics in both clinical and administrative settings. Students earn college credit and gain actual work experience. Students also receive instruction in the identification and proper use of other medical equipment and valuable on-the-job training. A required weekly seminar during spring term includes resume writing instruction, interviewing techniques, and other job-search skills. Contact Marty Pittman, Medical Office Assistant Cooperative Education Coordinator, Bldg. 4, Rm. 253, 541.463.3177.

Program Advising Contact Counseling and Advising, Student Services Building, or e-mail MOAProgram@lanecc.edu

Enrollment Requirements to be Met by Start of Fall Term Program Each accepted student must submit evidence of a physical examination (within the previous nine months) and receive several vaccinations before classes begin. Students are required to hold a Health Care Provider CPR and a Health Care Provider First Aid card (both must remain current through July of the year of graduation from the certificate program). In addition, students must complete courses outlined below.

1. Prerequisites are required for some courses. See course descriptions.
2. All first year courses, as well as MTH 052 and HO100 must be completed with a letter grade, not P/NP, and must be passed with a grade of "C-" or better to satisfy program requirements.
3. All second year courses may be completed prior to entry into the Medical Office Assistant program, and may be taken any term.
4. To register for any MA or HIT classes, a student must be accepted into the program. Other first and second term courses may be taken prior to program entry.
5. To meet MOA Certificate requirements and also AGS degree requirements, take Arts and Letters for 4 credits if CG 103 was completed as prerequisite for MOA program admission; take Human Relations requirement for 3-4 credits if SP 218 was completed as prerequisite.
6. PSY 201 and PSY 203 meet 8 credits of the 12-credit AGS Social Science degree requirement and may be taken in lieu of PSY 110 to meet MOA certificate requirements.

Two-Year Associate of General Studies

Prerequisite Courses Required for Admission

Choice of: ____________________________ 3-4
CG 203 Human Relations at Work
SP 218 Interpersonal Communication
### Medical Office Assistant

**One-Year Certificate of Completion**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 120 Concepts of Computing: Information Processing</td>
<td>4</td>
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<tr>
<td>Social Science Requirement as needed to complete 12 credits of Social</td>
<td>3-4</td>
</tr>
<tr>
<td>Science/Math/Computer Science Requirement</td>
<td>4</td>
</tr>
<tr>
<td>Science/Math/Computer Science Requirement as needed to complete</td>
<td>3</td>
</tr>
<tr>
<td>12 credits of Social Science</td>
<td></td>
</tr>
<tr>
<td>HO 110 Administrative Medical Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MA 130 Clinical Assistant 3</td>
<td>3</td>
</tr>
<tr>
<td>MA 280 Co-op Ed: Medical Office Assistant</td>
<td>5</td>
</tr>
<tr>
<td>MA 206 Co-op Ed: Medical Office Assistant</td>
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<tr>
<td>Seminar</td>
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<td>WR 121 Introduction to Academic Writing</td>
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<table>
<thead>
<tr>
<th>Course</th>
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<td>BT 165 Introduction to the Accounting Cycle</td>
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<tr>
<td>HO 114 Introduction to Coding</td>
<td>3</td>
</tr>
<tr>
<td>HO 152 Human Body Systems 2</td>
<td>3</td>
</tr>
<tr>
<td>HO 220 Legal and Ethical Aspects of Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>MA 120 Clinical Assistant 2</td>
<td>3</td>
</tr>
<tr>
<td>MA 150 Laboratory Orientation</td>
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**Winter**

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<tr>
<td>HIT 160 Practice Management</td>
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<td>HO 112 Medical Insurance Procedures</td>
<td>3</td>
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<td>MA 130 Clinical Assistant 3</td>
<td>3</td>
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<tr>
<td>MA 280 Co-op Ed: Medical Office Assistant</td>
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<tr>
<td>MA 206 Co-op Ed: Medical Office Assistant</td>
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<td>Total Credits</td>
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**Spring**

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<th>Course</th>
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<tr>
<td>CS 120 Concepts of Computing: Information Processing</td>
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<tr>
<td>Social Science Requirement as needed to complete 12 credits of Social</td>
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<td>Science/Math/Computer Science Requirement</td>
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<td>Science/Math/Computer Science Requirement as needed to complete</td>
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</tr>
<tr>
<td>12 credits of Social Science</td>
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**Fall**

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<th>Course</th>
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<tr>
<td>HO 114 Introduction to Coding</td>
<td>3</td>
</tr>
<tr>
<td>HO 152 Human Body Systems 2</td>
<td>3</td>
</tr>
<tr>
<td>HO 220 Legal and Ethical Aspects of Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>MA 120 Clinical Assistant 2</td>
<td>3</td>
</tr>
<tr>
<td>MA 150 Laboratory Orientation</td>
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<td>Total Credits</td>
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<td>HO 220 Legal and Ethical Aspects of Healthcare</td>
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<tr>
<td>MA 120 Clinical Assistant 2</td>
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<td>MA 150 Laboratory Orientation</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>14-15</td>
</tr>
</tbody>
</table>

### Gainful Employment Disclosure

**Standard Occupational Classification: 31-9092.00**

Go to the Department of Labor’s O*Net website for a profile of this occupation:

Medical Assistants onetonline.org/link/summary/31-9092.00

Or check on these O*Net Related Occupations:

Nursing Assistants onetonline.org/link/summary/31-1014.00

**How many students complete the Medical Office Assistant 1-year Certificate?**

Twenty-four students completed this certificate in academic year 2011-12.

**What was the on-time graduation rate for these students?**

Approximately 38 percent completed in the number of terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to better prepared for college level courses, affecting this narrowly defined on-time completion rate.

**How many jobs are forecast in this occupation between 2010-20?**

Lane County: 11 positions

Statewide: 29 positions

**What wages are forecast for this occupation?**

Lane County average hourly - $16.50; average annual - $34,262

Oregon average hourly - $15.95; average annual - $33,162

**How much will the program cost?**

(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

- Resident tuition and fees........................................ $4,707
- Differential fees*................................................... $566
- Student and Program fees......................................... $1,092
- Other program costs.............................................. $3,758
- On-Campus room and board...................................... Not offered

Total Estimate $10,123

*This is the total of all the differential fees attached to Medical Office Assistant courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

**What’s included?**

Program Costs: lanecc.edu/esfs/credit-fees-and-expenses

**What is the median loan debt incurred by students who completed the program in 2012?**

Federal Loans......................................................... $5,500

Institutional financing............................................. $0

**Admission Information**

Students are encouraged to consult a program advisor or counselor before applying for admission. The application and information on the point allocation system and transfer students is available in the Counseling and Advising Center and on the Medical Office Assistant website, lanecc.edu/hs/hip/moa

### Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. WR 115W must be completed with a Pass or “C-“ or better to satisfy program requirements.
3. To meet AGS degree requirements, take Arts and Letters for 4 credits if CG 103 was completed as prerequisite for MOA program admission; take Human Relations for 4 credits if SP 218 was completed as prerequisite.
4. HO 100, MTH 052 and all courses with BT, HIT, HO, or MA prefixes must be completed with a letter grade of “C-“ or better to
satisfy program requirements.
5. To register for any MA or HIT classes, a student must be accepted into the program. Other first and second term courses may be taken prior to program entry.
6. These courses may be taken any term: BT 120, BT 165, HO 110, HO 114, HO 220.

Prerequisite Courses Required for Admission
Choice of: ........................................... 3-4
CG 203 Human Relations at Work
SP 218 Interpersonal Communication
HO 100 Medical Terminology .................................................. 3
WR 115W Intro to College Writing: Workplace Emphasis
or higher-level writing.................................................. 3
MTH 052 Math for Introductory Physical Science ................. 4

Total Credits 13-14

Fall
BT 120 MS WORD for Business ........................................... 3
HO 110 Administrative Medical Office Procedures .................. 3
HO 150 Human Body Systems 1 ............................................ 3
HO 190 Medical Formatting .................................................. 3
MA 110 Clinical Assistant 1 ................................................... 3
Choice of: ........................................................................ 3-8
PSY 110 Exploring Psychology or
PSY 201 General Psychology and
PSY 203 General Psychology

Total Credits 18-23

Winter
BT 165 Introduction to the Accounting Cycle ......................... 4
HO 114 Introduction to Coding ............................................. 3
HO 152 Human Body Systems 2 ......................................... 3
HO 220 Legal and Ethical Aspects of Healthcare ................ 3
MA 120 Clinical Assistant 2 .................................................. 3
MA 150 Laboratory Orientation ........................................... 3

Total Credits 19

Spring
HIT160 Practice Management ............................................. 3
HO 112 Medical Insurance Procedures ................................ 3
MA 130 Clinical Assistant 3 ................................................ 3
MA 206 Co-op Ed. Medical Office Assistant Seminar .......... 2
MA 280 Co-op Ed: Medical Office Assistant ...................... 5

Total Credits 16

Multimedia Design
Offered by the Division of the Arts, 541.463.5409

Two-Year Associate of Applied Science Degree

One-Year Certificate of Completion, Multimedia Design

Purpose To prepare students for entry-level positions in the media industry and careers in multimedia design and production.

Learning Outcomes The graduate will:
- design computer applications incorporating multiple forms of media such as text, graphics, audio, video, and animation.
- understand the concept, potential and implications of communicating ideas using computer-based interactive media technology.
- become proficient in developing and applying effective visual design strategies for creating interactive multimedia, animation, games, web sites, and computer-based training for delivery over the Internet, DVD's and CD-ROM.
- have additional skills in one or more elective areas: software, design, or media.
- use appropriate library and information resources to research media issues, concepts and tools, and support lifelong technical learning.
- manipulate variables using computer software applications.

Job Openings Projected through 2020
Statewide openings - 28 annually

Wages
Lane County average hourly - $29.25; average annual - $60,839
Oregon average hourly - $29.28; average annual - $60,889

Costs (Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition.)

Resident Tuition and Student Fees ...................... $9,006
Books and supplies ...................................................... $1,700

Total Estimate $10,706

Multimedia Design courses fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Cooperative Education (Co-op) Opportunities to work directly in the media industry as interns are provided by the Co-op program. Through Co-op, students connect classroom learning with field experience, gain skills, and make contacts for the future. Second-year students will work with professional production teams to gain experience producing a variety of interactive multimedia products. Contact Teresa Hughes, Multimedia Design Co-op Coordinator, Bldg. 17, Rm. 106, (541) 463-3179, hughest@lanecc.edu.

Note: Students must earn a grade of “B-” or better in all prerequisite(s) and “C-” or better in major requirements.

Program Contacts Jefferson Goolsby, Bldg. 17, Rm. 105; Teresa Hughes, Bldg. 17, Rm. 106; Merrick Simms Bldg. 17, Rm. 107.

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. The PE/Health requirement may be completed with a letter grade, not P/NP.
3. ART 131, WR 121, and MUL 210 must be completed with a letter grade, not P/NP. ART 245, MTH 060, MUS 118, all Directed Electives, and the Science/Math/Computer Science requirement must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements. All other courses must be completed with a letter grade of “B” or better to satisfy prerequisite requirements for courses in a sequence.

Two-Year Associate of Applied Science Degree

First Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 115 Basic Design: Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ART 131 Introduction to Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 261 Photography 1</td>
<td>3</td>
</tr>
<tr>
<td>FA 250 Concepts of Visual Literacy</td>
<td>3</td>
</tr>
<tr>
<td>PE/Health requirement</td>
<td>1</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 17

Winter

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUD 120 Audio Production</td>
<td>4</td>
</tr>
<tr>
<td>FA 261 Writing and Interactive Design</td>
<td>3</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MUL 210 Multimedia Design</td>
<td>3</td>
</tr>
<tr>
<td>MUL 212 Digital Imaging</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 18
What’s included?
Program Costs: lanec.edu/esfs/credit-fees-and-expenses

What is the median loan debt incurred by students who completed the program in 2012?
Federal Loans.................................................. $4,360
Institutional financing........................................ $269

Course Requirements:
1. Prerequisites are required for some courses. See course descriptions.
2. The Science/Math/Computer Science course must be completed with a letter grade, not P/NP. ART 115, MTH 060 and the Science/Math/Computer Science course must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements. All other courses must be completed with a letter grade of “B” or better to satisfy prerequisite requirements.

One-Year Certificate of Completion in Multimedia Design

Gainful Employment Disclosure
Standard Occupational Classification: 27-1014.00
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Multimedia Artists and Animators
onetonline.org/link/summary/27-1014.00
Or check on these O*Net Related Occupations:
None

How many students complete the Multimedia Design 1-year Certificate?
Fourteen students completed this certificate in academic year 2011-12.

What was the on-time graduation rate for these students?
None completed in the number of terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to be better prepared for college level courses, affecting this narrowly defined on-time completion rate.

How many jobs are forecast in this occupation between 2010-20?
Lane County: 4 positions
Statewide: 28 positions

What wages are forecast for this occupation?
Lane County average hourly - $29.25; average annual - $60,839
Oregon average hourly - $46.33; average annual - $60,889

How much will the program cost?
(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Resident tuition and fees ........................................ $6,351
Books, supplies, program costs ................................ $1,700
On-Campus room and board..................................... Not offered
Total Estimate .................................................. $8,051

Spring
ART 151A Media Graphics ........................................ 3
FA 231 Multimedia Authoring ...................................... 3
Science, Math, Computer Science Requirement .............. 4
VP 151 Video Production 1: Camera ................................ 3
Directed Elective .................................................. 3-4
Total Credits 16-17

Second Year
Fall
CIS 195 Web Authoring 1 .......................................... 3
ART 245 Drawing for Media .................................... 4
MUS 118 Music Technology MIDI/Audio 1 .................. 4
VP 152 Video Production 2: Editing ............................ 3
Directed Elective .................................................. 3-4
Total Credits 17-18

Winter
ART 289 Web Production ........................................... 3
CG 203 Human Relations at Work ............................. 3
MDP 246 Multimedia Production 1 ............................ 4
MDP 280 Co-op Ed: Multimedia .................................. 3
PE/Health requirement ............................................. 1
Total Credits 14

Spring
MDP 247 Multimedia Production 2 ............................. 4
MDP 280 Co-op Ed: Multimedia .................................. 3
PE/Health requirement ............................................. 1
Directed elective ................................................... 6-8
Total Credits 14-16

One-Year Certificate of Completion in Multimedia Design

CAREER/TECHNICAL
Web Design

One-Year Certificate of Completion

Purpose The Web Design certificate is for students considering entry-level positions in web design and production, new media design, or positions with a focus on designing for the web.

Learning Outcomes Graduates will:

• develop proficiency in multiple forms of media design which includes writing for the web, graphic and web design, working with visual imagery, video, sound and animation.

• understand the concept, potential and implications of communicating ideas using computer-based interactive media technology.

• become proficient in developing and applying effective visual design strategies for creating web sites, interactive multimedia, animation, games, and computer-based training for deliver over the Internet, DVD's and CD-Rom. Develop additional skills in one or more elective areas: software, design, or media.

• understand the concepts of media and its effect on society, and how to use media ethically.

• learn to use appropriate library and information resources to research media topics and issues, concepts and tools, and support lifelong technical and aesthetic learning.

• manipulate variables using computer software applications.

Program Coordinator Jefferson Goolsby, Bldg. 17, Rm. 105.

Gainful Employment Disclosure

Standard Occupational Classification: 15-1199.03

Go to websites below for information about related occupations:
Web Administrators
anetonline.org/link/summary/15-1199.03

How much will the program cost?
(estimate based on 2011-12 data. consult lane’s website for updated tuition.)

Resident tuition and fees .............................................. $6,173
Books, supplies, program costs ................................ $1,700
On-Campus room and board ........................................ Not offered

Total Estimate $7,873

What’s included?

Program Costs: lanecc.edu/esfs/credit-fees-and-expenses

What are financing options to pay for the program?
In addition to any grant and scholarship aid for which they are eligible, students may use federal and private loans to finance their education.

How long will it take to complete this program?
The program is designed to take 3 terms, or about 12 months of study to complete.

How many 2010-11 Web Design graduates completed within the designed program length?
This is a new program, and data is not yet available on graduates.

What are my chances of getting a job when I graduate?
In Lane County, 12 positions are forecast to be available annually between 2008-2018, and 166 positions are forecast statewide.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.

Nursing

Offered by the Health Professions Division 541.463.5617

Two-Year Associate of Applied Science Degree

Purpose To prepare the graduate to practice as an associate degree registered nurse, to be eligible to take the National Council Licensure Examination (NCLEX)-RN. Acceptance to the program allows for co-admission to Lane Community College and Oregon Health Sciences University nursing programs.

Learning Outcomes Nursing care competencies recognize that a competent nurse provides safe care across the lifespan directed toward the goals of helping clients (individuals, families or communities) promote health, recover from acute illness and/or manage a chronic illness and support a peaceful and comfortable death. As a member of the Oregon Consortium for Nursing Education the Lane Nursing curriculum supports the following nursing competencies. A competent nurse:

• bases personal and professional actions on a set of shared core nursing values.
• develops insight through reflection, self-analysis and self-care.
• engages in self-directed learning.
• demonstrates leadership in nursing and healthcare.
• collaborates as part of a health care team.
• practices relationship-centered care.
• makes sound clinical judgments.
• uses the best available evidence.

Job Openings Projected through 2020
Lane County openings - 139 annually
Statewide openings – 1,450 annually

Wages
Lane County average hourly - $37.35; average annual - $77,694
Oregon average hourly - $37.54; average annual - $78,098

J234 Photojournalism 2 .............................................. 4
MDP 248 Multimedia Production 3 .......................... 4
MUL 214 Digital Photography .................................... 3
MUL 216 Multimedia for the Web ............................. 3
MUL 218 Business Practices for Media Arts .............. 2
MUS 119 Music Technology MIDI/Audio 2 .................. 4
MUS 298 IS: Music Technology .................................. 1-6

Fall
ART 115 Basic Design: Fundamentals ....................... 3
CIS 125W Software Tools 1: Web .......................... 3
CIS 195 Web Authoring 1 ........................................ 3
MTH 060 Beginning Algebra or higher math ............. 4
MUL 212 Digital Imaging ......................................... 4

Total Credits 17

Winter
ART 245 Drawing for Media ...................................... 4
ART 289 Web Production ......................................... 3
CS 133JS Beginning Programming: JavaScript .......... 4
WR 121 Introduction to Academic Writing .................. 4

Total Credits 15

Spring
ART 151A Media Graphics ........................................ 3
ART 290 Design Concepts for the Web ..................... 3
CG 203 Human Relations at Work ............................ 3
CS 295P Web Development 1: PHP ......................... 4
MUL 218 Multimedia for the Web ............................ 3

Total Credits 16

2. CG 203, CIS 195, CS 295P, MTH 060 and WR 121 must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements. All other courses must be completed with a letter grade of “B” or better to satisfy prerequisite requirements.
Costs (Estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition.)

- Resident Tuition and Student Fees: $9,181
- Differential Fees*: $10,315
- Other program costs: $3,166

Total Estimate: $24,661

* This is the total of all the differential fees attached to Nursing courses in the 2-yr program. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Admission Information

Program website: lanecc.edu/hp/nursing/
Application Website: lanecc.edu/hp/nursing/registered-nursing-application-information

Oregon residency required.

Prerequisites required prior to beginning of program

- Courses: See Prerequisite Courses for Program Admission
- Other: Immunizations, drug testing, criminal background check required. Information pertaining to criminal background checks and disqualifying crimes can be found at the Oregon Board of Nursing: arcweb.sos.state.or.us/rules/OARS_800/OAR_851_045.html

Accreditation Oregon State Board of Nursing (OSBN) 17938 SW Upper Boones Ferry Rd, Portland, OR, 97173-0685, oregon.gov/OSBN. LANE is a member of the Oregon Consortium for Nursing Education (OCNE) and offers a competency-based curriculum jointly developed by nursing faculties from eight community colleges and OHSU consortium partners.

Cooperative Education Co-op internships may be taken as an optional elective any of the last five terms of the program. Contact Ruth Rice, Cooperative Education Coordinator for Nursing, Bldg. 30, Rm. 102, (541) 463-3276.

Academic Advising/Counseling For assistance with meeting application or program requirements contact Counseling and Advising in Building 1 room 103 or E-mail NursingProgram@lanecc.edu with your specific questions. An online Academic Advising resource can be found by going to lanecc.edu. Choose the "Moodle" link and in search of courses type in Nursing and select Academic Advising Resources for nursing.

Program Coordinator Patricia Tully, RN, MS - tullyp@lanecc.edu 541.463.5754

Prerequisite Courses for Program Application To be eligible to apply a minimum of 30 credits must be completed by application deadline and include MTH 095 or higher level math and BI 231 Human Anatomy and Physiology I.

Prerequisite Courses for Program Enrollment (45 credits must be completed prior to beginning program)

- BI 231 Human Anatomy and Physiology I: 4
- BI 232 Human Anatomy and Physiology II: 4
- BI 233 Human Anatomy and Physiology III: 4
- Nutrition course: of: 4
- FN 226 Nutrition
- FN 240 Introduction to Nutrition and Metabolism
- Human Development course(s): of: 3-6
- PSY 215 Lifespan Developmental Psychology
- or
- (PSY 235 Human Development 1 and PSY 236 Human Development 2)

or (HDFS 226 Child Development and PSY 236 Human Development 2)

Mathematics proficiency, choice of: 4-5
- MTH 095 Intermediate Algebra or higher
- Credit by Exam for MTH 095

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All courses except Clinical Labs, Cooperative Education, and Biology with Genetics must be passed with a letter grade of “C” or better.
3. WR 121 and 122 (prerequisite to program entry) are waived with completion of previous U.S. Bachelors Degree or higher from U.S. regionally accredited institution.
4. WR 123 and 227 are waived if WR 121 and WR 122 are taken as 4 credit courses effective summer term 2010.
5. The most recent BI 233 course must have been completed within 7 years prior to starting the nursing program (taken Fall term 2006 or later).
6. PSY 236 is not offered at Lane, but is available at other colleges in the OCNE consortium.
7. Students must be enrolled in the Nursing Program to register for any NRS classes.

Nursing

First Year

- Fall
  - BI 234 Introductory Microbiology: 4
  - Biology with genetics: 3-4
  - BI 112 + BI 233 or BI 112 + BI 102G or BI 101F + BI 233 or BI 211 + BI 233 or BI 101K + BI 233 or BI 101K + BI 102G
  - NRS 110A Foundations of Nursing: 4
  - NRS 110B Foundations of Nursing: 4

  Total Credits: 16-17

- Winter
  - NRS 111A Foundations of Nursing in Chronic Illness 1: 2
  - NRS 111B Foundations of Nursing in Chronic Illness Lab (pass/no pass): 4
  - NRS 230 Clinical Pharmacology 1: 3
  - NRS 232 Pathophysiology Processes 1: 3
  - Choice of: 4
  - WR 123 Composition: Research
  - WR 227 Technical Writing
  - Elective:
    - NRS 280 Co-op Ed: Nursing: (2)

  Total Credits: 16-18

- Spring
  - NRS 112A Foundations of Nursing in Acute Care 1: 2
  - NRS 112B Foundations of Nursing in Acute Care 1: 4
  - Clinical Lab: 3
  - NRS 231 Clinical Pharmacology 2: 3
  - Communications: 4

  Total Credits: 16
## Practical Nursing

### Certificate of Completion

**Purpose** Completion of this program gives the student a certificate in Practical Nursing (PN) which meets the educational requirements for the national exam for PN licensure (NCLEX-PN).

**Learning Outcomes** The graduate will:

- demonstrate understanding of how to develop a nursing care plan and identify the difference between the LPN and RN roles in developing and implementing the plan.
- identify issues and care for clients in acute care settings.
- pathophysiology, medical management and nursing intervention in caring for clients with all conditions to include acute, chronic, obstetrics, psychiatric and terminal illnesses.
- understand the principles of pharmacodynamics and pharmacokinetics.

**Gainful Employment Disclosure**

**Standard Occupational Classification:** 29-2061.00

Go to the Department of Labor’s O*Net website for a profile of this occupation:

Licensed Practical and Licensed Vocational Nurses
[onetonline.org/link/summary/29-2061.00](https://onetonline.org/link/summary/29-2061.00)

Or check on these O*Net Related Occupations:

Psychiatric Aides [onetonline.org/link/summary/31-1013.00](https://onetonline.org/link/summary/31-1013.00)

**How many students complete the Practical Nursing 1-year Certificate?**

Fourteen students completed this certificate in academic year 2011-12.

**What was the on-time graduation rate for these students?**

Approximately 7 percent completed in the number of terms listed for this program in the catalog. Note: The federally required method for calculating this rate assumes students will enroll full-time, declare a major immediately, and enroll in it continuously until certificate completion. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change their majors, or brush-up academic skills to be better prepared for college level courses, affecting this narrowly defined on-time completion rate.

### Second Year

**Fall**

- **NRS 221A Nursing in Chronic Illness 2** and End-of-Life ........................................... 4
- **NRS 221B Nursing in Chronic Illness 2** and End-of-Life Lab ........................................ 5
- Arts and Letters, Social or Natural Science electives ...... (6) (required for BS, not for AAS)

**Total Credits** 15-18

**Winter**

- **NRS 222A Nursing in Acute Care 2** and End-of-Life ........................................... 4
- **NRS 222B Nursing in Acute Care 2** and End-of-Life Clinical Lab ........................................ 5
- Arts and Letters, Social or Natural Science electives ...... (6) (required for BS, not for AAS)

**Total Credits** 15-18

**Spring**

- **NRS 224A Integrative Practicum 1** ........................................... 2
- **NRS 224B Integrative Practicum 1** Clinical Lab (pass/no pass) ........................................ 7
- Arts and Letters, Social or Natural Science electives ...... (6) (required for BS, not for AAS)

**Total Credits** 15-18

**Electives** as required to complete 90 credits for AAS ...... (0-16)

**Total Credits** 9-31

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**What's included?**

Program Costs: [lanec.edu/esfs/credit-fees-and-expenses](https://lanec.edu/esfs/credit-fees-and-expenses)

**What is the median loan debt incurred by students who completed the program in 2012?**

Federal Loans........................................................................ Data unavailable

Institutional financing................................................................ Data unavailable

-- **Application Information**

Drug testing, criminal background check required. Consult [lanecc.edu/hp/nursing/registered-nursing-faq](https://lanecc.edu/hp/nursing/registered-nursing-faq). Information on criminal background checks and disqualifying crimes can be found at the Oregon Board of Nursing at:

[arcweb.sos.state.or.us/rules/OARS_800/OAR_851/851_045.html](https://arcweb.sos.state.or.us/rules/OARS_800/OAR_851/851_045.html)

**Program Endorsement** Accreditation is obtained by the Oregon State Board of Nursing (OSBN) 17938 SW Upper Boones Ferry Rd., Portland, OR, 97177-0685, [oregon.gov/OSBN](http://oregon.gov/OSBN)

**Academic Advising/Counseling** For assistance with meeting application or program requirements contact Counseling and Advising in Building 1 room 103 or E-mail NursingProgram@lanecc.edu with your specific questions.

**Program Coordinator** Patricia Tully, RN, MS, tullyp@lanecc.edu 541.463.5754

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### Course Requirements

1. Prerequisites are required for some courses. See course descriptions.

2. The most recent BI 231, BI 232, BI 233 courses must have been completed within 7 years prior to starting the PN Program.

3. PN 101A, PN 102A, and PN 103A must be completed with a letter grade and passed with "C" or better. Human Relations course must be completed with a letter grade.

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**Prerequisite Courses for Program Application**

- Mathematics proficiency, choice of
  - MTH 065 Intermediate Algebra or higher
  - Credit by Exam for MTH 065 or graded courses:
    - AP (Calculus), or CLEP (College Algebra, or any Calculus, or Statistics), or IB (Mathematics, or Math Studies, or Further Mathematics, or Statistics)

- WR 121 Introduction to Academic Writing
Enrollment Information

- Program enrollment by application process.
- Courses – See Prerequisite Courses for Program Admission

Program Endorsement
Approval by the OCNE Coordinating Council, 3455 SW U.S. Veterans Hospital Rd, Portland, OR 97239, ocne.org

Academic Advising/Counseling
For assistance with meeting application or program requirements contact Counseling and Advising in Building 1 room 103 or E-mail NursingProgram@lanecc.edu with your specific questions.

Program Coordinator
Patricia Tully, RN, MS, tullyr@lanecc.edu
541.463.5754

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All courses must be passed with a letter grade of “C” or better to complete the Bridge Program.
3. WR 121 and 122 (prerequisite to program entry) are waived with completion of previous U.S. Bachelor’s Degree or higher from U.S. regionally accredited institution.
4. WR 123 and 227 are waived if WR 121 and WR 122 are taken as 4 credit courses effective summer term 2010.
5. The most recent BI 233 course must have been completed within 7 years prior to starting the nursing program (taken Fall term 2006 or later).
6. PSY 236 is not offered at Lane, but is available at other colleges in the OCNE consortium.

Prerequisite Courses for Program Application
To be eligible for admission the LPN applicant must have completed the 45 credits (minimum) of prerequisites by the application deadline.

BI 231 Human Anatomy and Physiology 1 ........................................ 4
Note: see BI 231 course description for required prerequisites.
BI 232 Human Anatomy and Physiology 2 ........................................ 4
BI 233 Human Anatomy and Physiology 3 ........................................ 4
FN 225 Nutrition .............................................................................. 4
Human Development course, choice of: ............................................. 3-6
PSY 215 Lifespan Developmental Psychology or
(PSY 235 Human Development 1 and
PSY 236 Human Development 2 )
Mathematics proficiency, choice of .................................................. 4-5
MTH 095 Intermediate Algebra or higher or
Credit by Exam for MTH 095 or
transcribed credits:
AP (Calculus), or CLEP (College Algebra, or any Calculus, or Statistics), or IB (Mathematics, or Math Studies, or Further Mathematics, or Statistics)
WR 121 English Composition: Exposition and
Introduction to Argument ................................................................... 4
WR 122 Composition: Style and Argument ........................................ 4
Social Science course/Human Relations Requirement .......................... 3
Any college level 100 or 200 transferable non-studio
Arts/Letters, social science or science electives .................................... 3-12
Minimum of 500 LPN practice hours
Unencumbered Oregon LPN License
Completion of ATI LPN Step Exam

Prerequisites required prior to enrollment in Nursing Courses
To be allowed to enroll in NRS 230 Pharmacology and
NRS 232 Pathophysiology, the following requirements must be completed:

- BI 234 Introductory Microbiology ........................................ 4
- Biology with genetics: .................................................. 3-4
- BI 112 + BI 233 or
- BI 112 + BI 102G or
- BI 101F + BI 233 or
- BI 211 + BI 233 or
- BI 101K + BI 233 or
- BI 101K + BI 102G

**Program Course Listing** Only students accepted to the LPN Bridge may register for the any of the NRS courses below.

<table>
<thead>
<tr>
<th>Winter</th>
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</thead>
<tbody>
<tr>
<td>NRS 230 Clinical Pharmacology 1</td>
<td>3</td>
</tr>
<tr>
<td>NRS 232 Pathophysiology Processes 1</td>
<td>3</td>
</tr>
<tr>
<td>NRS 231 Clinical Pharmacology 2</td>
<td>3</td>
</tr>
<tr>
<td>NRS 233 Pathophysiology Processes 2</td>
<td>3</td>
</tr>
<tr>
<td>NRS 115A LPN Transition to OCNE</td>
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<tr>
<td>NRS 115B LPN Transition to OCNE-Lab</td>
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**Fall**

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<tr>
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<tbody>
<tr>
<td>OST 280 Co-op Ed: Occupational Skills</td>
<td>6</td>
</tr>
<tr>
<td>Occupation-specific course work</td>
<td>6</td>
</tr>
</tbody>
</table>

**Choice of:**

- WR115 Introduction to College Writing
- WR115W Introduction to College Writing: Workplace Emphasis

<table>
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<tr>
<th>Total Credits</th>
<th>15-16</th>
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**Spring**

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<tbody>
<tr>
<td>OST 280 Co-op Ed: Occupational Skills</td>
<td>6</td>
</tr>
<tr>
<td>Occupation-specific course work</td>
<td>6</td>
</tr>
<tr>
<td>MTH 025 Basic Mathematics Applications or higher</td>
<td>3</td>
</tr>
<tr>
<td>RTEC 101 Gateway to College and Careers (optional)</td>
<td>(1-3)</td>
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<tr>
<th>Total Credits</th>
<th>15-18</th>
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**Paralegal Studies**

**Offered by the Umpqua Community College Business Department, 541.440.4663**

**Two-Year Associate of Applied Science Degree, Paralegal Studies**

Students may complete first-year classes at Lane and second-year classes at Umpqua to become eligible for the AAS Degree in Paralegal Studies through Umpqua Community College.

It is expected that Lane students will have completed the Legal Office Skills Career Pathway Certificate of Completion at Lane (see Administrative Office Professional program) before transferring to Umpqua. The remaining Umpqua courses are all offered online so students are able to transfer to Umpqua and complete the AAS degree without the need to travel out of the Lane County area for classes.

The partnership between LCC and UCC allows students to work towards their Legal Office Certificate while at LCC and if they choose to continue their education, they can transfer that certificate to UCC to begin second year classes of the AAS in Paralegal Studies. Federal regulations prohibit students from majoring in a degree not awarded from the institution they are attending. Please see your academic advisor to discuss major options while you are attending LCC.

Federal regulations also prohibit receiving financial aid for the same term at more than one institution. Students who plan to transfer to UCC to pursue an AAS in Paralegal Studies will need
to stop receiving financial aid from LCC and apply for financial aid from UCC when they transfer.

CC Paralegal Coordinator Crystal Sullivan, 541.440.4663, Crystal.Sullivan@umpqua.edu

See Umpqua’s catalog for program requirements and a term-by-term listing of second-year courses.

### Paramedicine

**Offered by the Health Professions Division, 541.463.5617**

#### Two-Year Associate of Applied Science Degree

**One-Year Certificate of Completion, Emergency Medical Technician**

**Purpose** To produce competent, entry level EMT (EMT-Basic) and EMT-Paramedics to serve in career and volunteer EMS positions.

**Learning Outcomes** The graduate will:

- acquire the skills needed to be a safe and effective pre-hospital emergency medical provider.
- work as a member of a 911 emergency medical response team.
- transport sick and injured persons to medical facilities.
- administer basic and advanced life support care.
- document patient information, treatment plan, and patient progress.
- understand and apply laws and rules relevant to emergency responders.

**Job Openings Projected through 2020**

Lane County openings - 4 annually

Statewide openings - 102 annually

**Wages**

Lane County average hourly - $18.52; average annual - $38,592

Oregon average hourly - $18.43; average annual - $38,331

**Costs** (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

- Resident Tuition and Student Fees............................... $8,652
- Differential Fees* ...................................................... $1,665
- Student and Program Fees ........................................... $2,262
- Other Course/Program Costs ........................................ $3,167
- Personal Health Insurance ......................................... varies

**Total Estimate** $15,746

* This is the total of all the differential fees attached to Emergency Medical Technology Paramedicine courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses. Students are advised to inquire about additional charges.

Parking fees may be required at clinical facilities.

**Program Coursework** Approval of Emergency Medical Technology Paramedicine courses

(1) Lane’s Health Professions Division is responsible for approving EMT courses.

(2) An EMT course must be offered by a teaching institution accredited by the Oregon Department of Education (ODE) or the Oregon State Board of Higher Education. The ODE uses the OHA DHS/EMS administrative rules (OAR 333-265) and must meet the standards established by the ODE in OAR chapter 581, division 49: arcwab.sos.state.or.us/rules/OARS_500/OAR_581/581_049.html

**Licensing or Other Certification Exams** Required Oregon State and/or National Registry EMT (EMT-Basic) and EMT-Paramedic exams. Two-Year Associate of Applied Science Degree graduates are qualified to apply for the Oregon EMT-Paramedic certification exam. Coursework includes lecture, lab, clinical time in the hospital and an internship on a 911 ambulance. All first year courses must be successfully completed with a minimum of a C- grade to qualify to apply into the second year of the AAS/EMT-P program.

Students seeking EMT-Basic certification need only take EMT 151 and EMT 152. Students who successfully complete are eligible to apply for the Oregon EMT-Basic certification exam. Admission is by application only. Please see the EMT-Basic application for details, lanecc.edu/hp/eme.

**Prerequisite requirements** Students must be 18 years of age to take EMT courses. Students must also have High School Diploma, GED or college degree. Students enrolled in EMT programs are required to have a tuberculin test, measles and rubella vaccinations, and hepatitis B vaccinations. Tuberculin tests must be current through three terms (fall, winter, spring). Once admitted into the program, students are required to carry their own health insurance, submit to drug test and criminal background check, and provide proof of mandatory immunizations. Applicants for the second year must have current, valid Oregon EMT (EMT-Basic), Oregon Advanced EMT or Oregon EMT-Intermediate certification, and maintain good standing with the Oregon Health Authority Department of Human Services, EMS and Trauma Systems Section. EMT students will be submitting to a criminal background check.

**Admission Information** Students are encouraged to consult a program advisor or counselor before applying for admission. The application and information on the point allocation system and transfer students is available in the Counseling and Advising Center and on the EMT website, lanecc.edu/hp/eme.

**Academic Advising/Counseling** For questions about credit coursework contact Counseling and Advising, Student Services Building, or email EMTBasicProgram@lanecc.edu. For information on the non-credit offerings in EMS visit the EMT website, lanecc.edu/hp/eme.

**Cooperative Education (Co-op)** Students earning the Paramedicine AAS two-year degree are required to take two Cooperative Education courses. Co-op courses provide opportunities to gain EMS skills in off-campus learning sites. Contact Tom Brokaw, EMT Co-op Coordinator, Bldg. 30, Rm. 229, 541.463.5633, brokaw@lanecc.edu.

**Course Requirements**

1. Prerequisites are required for some courses. See course descriptions.

2. EMT 271 and EMT 273 must be completed with a grade of “Pass” or “C-” or better.

3. CIS 101, CS 120, MTH 095, PSY 110, WR 121, HE 275, SP 111, and Social Science/Human Relations requirement must be completed with a letter grade, not P/NP.

4. All other courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.
5. Choices for Social Science/Human Relations requirement are listed on the Associate of Applied Science degree page.
6. Students pursuing a bachelor’s degree need to complete a college level, transferable math course.

**Paramedicine**

**Two-Year Associate of Applied Science Degree**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 231 Human Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>EMT 151 Emergency Medical Technician</td>
<td>5</td>
</tr>
<tr>
<td>EMT 152 Emergency Medical Technician Basic Part 2</td>
<td>5</td>
</tr>
<tr>
<td>EMT 175 Introduction to Emergency Medical Services</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>17</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 232 Human Anatomy and Physiology 2</td>
</tr>
<tr>
<td>EMT 196 Crisis Intervention</td>
</tr>
<tr>
<td>MTH 095 Intermediate Algebra</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>BI 233 Human Anatomy and Physiology 3</td>
</tr>
<tr>
<td>EMT 169 EMT Rescue</td>
</tr>
<tr>
<td>EMT 170 Emergency Response Communication/Documentation</td>
</tr>
<tr>
<td>EMT 171 Emergency Response Patient Transportation</td>
</tr>
<tr>
<td>PSY 110 Exploring Psychology</td>
</tr>
<tr>
<td>HO 100 Medical Terminology 1</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 101 Computer Fundamentals or CS 120 Concepts of Computing: Information Processing</td>
<td>3-4</td>
</tr>
<tr>
<td>EMT 270 EMT-Paramedic Part 1</td>
<td>10</td>
</tr>
<tr>
<td>EMT 271 EMT-Paramedic Part 1 Clinical</td>
<td>1</td>
</tr>
<tr>
<td>SP 111 Fundamentals of Public Speaking or higher Speech course</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>18-19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMT 272 EMT-Paramedic 2</td>
</tr>
<tr>
<td>EMT 273 EMT-Paramedic Clinical 2</td>
</tr>
<tr>
<td>Human Relations requirement</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
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<table>
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<tr>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>EMT 274 EMT-Paramedic 3</td>
</tr>
<tr>
<td>EMT 275 EMT-Paramedic Clinical 3</td>
</tr>
<tr>
<td>EMT 280P1 Co-op Ed: EMT Internship Part1</td>
</tr>
<tr>
<td>HE 275 Lifetime Health and Fitness</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Summer</th>
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<tbody>
<tr>
<td>EMT 280P2 Co-op Ed: EMT Internship Part 2</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>

**Emergency Medical Technician**

**One-Year Certificate of Completion**

Certificate of Completion was created as a statewide transfer tool. Some Oregon schools offer only the first year of the two-year degree. The certificate of completion qualifies a student to participate in the process for entry into the second year (the “paramedic year”) of the Paramedicine AAS offered throughout the state. Not all Oregon EMT schools participate in the Certificate of Completion transferability. Those planning to take the first year at Lane, then transfer to another college, should check with the EMT program coordinator for guidance.

**Gainful Employment Disclosure**

**Standard Occupational Classification: 29-2041.00**
Go to the Department of Labor’s O*Net website for a profile of this occupation:
Emergency Medical Technicians and Paramedics
[onetonline.org/link/summary/29-2041.00](http://onetonline.org/link/summary/29-2041.00)
Or check on these O*Net Related Occupations:
Ambulance Drivers and Attendants, Except Emergency Medical Technicians
[onetonline.org/link/summary/53-3011.00](http://onetonline.org/link/summary/53-3011.00)

**How many students complete the Emergency Medical Technician Statewide Certificate of Completion 1-year Certificate?**
Three students completed this certificate in academic year 2011-12.

**What was the on-time graduation rate for these students?**
Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

**How many jobs are forecast in this occupation between 2010-20?**
Statewide: 102 positions
Lane County: 4 positions

**What wages are forecast for this occupation?**
Lane County average hourly - $18.52; average annual - $38,519
Oregon average hourly - $18.43; average annual - $38,331

**How much will the program cost?**
(Estimates based on 2012-13 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Resident tuition and fees | $4,720
Differential fees* | $438
Other program fees | $1,287
Total Estimate | $6,445

* This is the total of all the differential fees attached to Emergency Medical Technician courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses. Students are advised to inquire about additional charges.

**What’s included?**
Program Costs: [lanec.edu/esfs/credit-fees-and-expenses](http://lanec.edu/esfs/credit-fees-and-expenses)

**What is the median loan debt incurred by students who completed the program in 2012?**
Federal Loans | Not disclosed
Institutional financing | Not disclosed
(For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than ten graduates.)

**Course Requirements**

1. Prerequisites are required for some courses. See course descriptions.
2. MTH 095, PSY 110, and WR 121 must be completed with a letter grade, not P/NP.
3. All other courses must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements.

<table>
<thead>
<tr>
<th>Fall</th>
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</thead>
<tbody>
<tr>
<td>BI 231 Human Anatomy and Physiology 1</td>
</tr>
<tr>
<td>EMT 151 Emergency Medical Technician Basic Part 1</td>
</tr>
<tr>
<td>EMT 152 Emergency Medical Technician Basic Part 2</td>
</tr>
<tr>
<td>EMT 175 Introduction to Emergency Medical Services</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>
Physical Therapist Assistant
Offered by the Health Professions Division, 541.463.5617
Two-Year Associate of Applied Science Degree
Refer to lanecc.edu/custom/pathways/physicaltherapistassistant for AAS PTA degree career pathways.

Purpose
Prepare the graduate to qualify for the National Physical Therapy Examination administered by the Federation of State Boards of Physical Therapy and practice as an entry-level, licensed physical therapist assistant (PTA).

Learning Outcomes
Physical Therapist Assistant (PTA) program learning outcomes are defined by the Commission on Accreditation in Physical Therapy Education (CAPTE). Program graduates must demonstrate broad, integrative and specialized knowledge, technical and communication skills, and behavior and conduct consistent with entry-level PTA practice. Learning outcomes have a strong emphasis on safely and effectively implementing a plan of care under the direction of a supervising physical therapist. PTAs work under the direction of the supervising physical therapist in helping clients (individuals, families or communities) promote health and recovery from acute or chronic neuromuscular, musculoskeletal, cardiovascular, pulmonary, metabolic, and integument injury or disease.

The graduate:
- communicates verbally and non-verbally with the patient, the physical therapist, health care delivery personnel, and others in an effective, appropriate, and capable manner.
- recognizes individual and cultural differences and responds appropriately in all aspects of physical therapy services.
- exhibits conduct that reflects a commitment to meet the expectations of the members of the profession of physical therapy and members of society receiving health care services.
- exhibits conduct that reflects safe practice standards that are legal, ethical and safe.
- communicates an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.
- demonstrates competence in implementing selected components of interventions identified in the plan of care established by the physical therapist, including functional training, infection control, manual therapy, physical and mechanical agents, therapeutic exercise, and wound management.
- demonstrates competency in performing components of data collection skills essential for carrying out the plan of care, including tests and measures for aerobic capacity, pain, cognition, assistive and prosthetic devices, joint motion, muscle performance, neuro-motor development, posture, self-care and home/community management, ventilation, respiration, and circulation.
- recognizes and initiates clarifications with the supervising physical therapist when indicated.
- adjusts treatment interventions within the plan of care to optimize patient safety, progress, and comfort; reports outcomes to the supervising physical therapist.
- instructs and educates patients, family members, and caregivers as directed by the supervising physical therapist.
- instructs members of the health care team as directed by the supervising physical therapist, using appropriate instructional materials and approaches.
- demonstrates a commitment to meeting the needs of the patients and consumers.
- interacts with other members of the health care team in patient care and non-patient care activities.
- provides accurate and timely information for billing and reimbursement purposes.
- participates in quality assurance activities.
- demonstrates an awareness of social responsibility, citizenship and advocacy, including participation in community and service organizations and activities.
- identifies career and lifelong learning opportunities.

Job Openings Projected through 2020
Statewide openings - 34 annually

Wages
Lane County average hourly - $29.39; average annual - $61,115
Oregon average hourly - $25.65; average annual - $53,338

Costs
(estimate based on 2012 tuition and fees. Consult Lane's website for updated tuition and fees for prerequisite and program courses. Prerequisite costs will vary for transfer students.)

Resident Tuition .......................................................................................... $7,740
Differential Fees* ....................................................................................... $1,421
Student and Program Fees ........................................................................ $1,107
Other Program Costs .................................................................................. $3,664

Total Estimate $13,932

* This is the total of all the differential fees attached to Physical Therapist Assistant courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

More Cost Information
Cooperative education courses will have additional costs for room and board, parking, and transportation to and from co-op sites. Students are responsible for costs associated with national examination and licensing.

Program Accreditation
The Physical Therapist Assistant Program at Lane Community College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, VA 22314; phone: 703.706.3245; e-mail accreditation@apta.org; website: capteonline.org.

Licensing or Other Certification
Graduates are eligible to take the National Physical Therapy Examination during fixed date testing.

Prerequisites
PTA is a concentrated program with a heavy emphasis on on-line and blended learning. An applicant must complete a PTA application. The most current information regarding the curriculum, prerequisites, admission standards and procedures is available at lanecc.edu/hp/pta.

Admission Information
Please consult lanecc.edu/hp/pta.

Academic Advising/Counseling
Registration in on-line (Moodle) Academic Advising for Physical Therapist Assistant is highly
recommended. Drop-in advising is available in Building 1, Room 103. E-mail ptaprogram@lanecc.edu

Cooperative Education (Co-op) Co-op is required for second year students enrolled in the Physical Therapist Assistant Program. Students must complete 18 credits of Co-op, resulting in 648 hours of supervised clinical instruction at a program-designated co-op site. Contact Beth Thorpe, PTA Cooperative Education Coordinator, Bldg. 30, Rm. 108, 541.463.3274, thorpeb@lanecc.edu.

Program Coordinator Christina Howard, MPT, Health Professions, Building 30, Room 110, 541.463.5764, howarde@lanecc.edu

Course Requirements
1. Prerequisites are required for some courses. See course descriptions.
2. All PTA courses must be completed with a letter grade of “C” or better to satisfy program requirements.
3. Non-PTA courses must be completed with a letter grade, not P/NC, and must be passed with a grade of Pass or “C” or better to satisfy program requirements.
4. No more than 16 credits with a grade of “Pass” are accepted.

Prerequisites Required to Apply:

WR 121 Introduction to Academic Writing, higher writing, or prior bachelor’s degree, verified by transcript from US accredited institution. ............................................. 3-4
HO 100 Medical Terminology .............................................. 3
Choice of: ......................................................................... 3-4
HO 150 Human Body Systems
BI 231 Human Anatomy and Physiology
Choice of: ......................................................................... 4-5
GS 104 Physical Science
PH 101 Fundamentals of Physics
PH 102 Fundamentals of Physics
PH 201 General Physics
Choice of: ......................................................................... 4
PSY 201 General Psychology
PSY 202 General Psychology

Total Credits 17-20

Two-Year Associate of Applied Science Degree

First Year

Fall
PTA 100 Introduction to Physical Therapy ............................................. 3
PTA 101 Introduction to Clinical Practice 1............................................. 5
PTA 101L Introduction to Clinical Practice 1 Lab .................................. 2
MTH 070 Introductory Algebra ......................................................... 5-8
or MTH 060 + MTH 065 or higher
Choice of: ......................................................................... 3-4
HO 152 Human Body Systems 2
BI 233 Human Anatomy and Physiology 3
** Note: Either HO 152 or BI 233 must be completed by fall term

Total Credits 18-22

Winter
PTA 103 Introduction to Clinical Practice 2............................................. 5
PTA 103L Introduction to Clinical Practice 2 Lab .................................. 2
PTA 132 Applied Kinesiology 1 ......................................................... 2
PTA 132L Applied Kinesiology 1 Lab .................................................. 2
SP 115 Introduction to Intercultural Communication ................................ 4

Total Credits 15

Spring
HE 262 First Aid 2 - Beyond the Basics ............................................. 3
PTA 104 PT Interventions - Orthopedic Dysfunctions ............................. 5
PTA 104L PT Interventions - Orthopedic Dysfunctions Lab ......... 2
PTA 133 Applied Kinesiology 2 .......................................................... 2
PTA 133L Applied Kinesiology 2 Lab .................................................. 2

Total Credits 14

Second Year

Fall
PTA 204 PT Interventions - Neurological Dysfunctions .......................... 5
PTA 204L PT Interventions - Neurological Dysfunctions Lab .......... 2
PTA 290A Co-op Ed: First Clinical Affiliation ..................................... 6

Total Credits 13

Winter
PTA 205 PT Interventions - Complex Medical Dysfunctions ................. 4
PTA 205L PT Interventions - Complex Medical Dysfunctions Lab .......... 2
PTA 290B Co-op Ed: Second Clinical Affiliation .................................. 6
HO 150 Human Body Systems
Human Relations Requirement .......................................................... 3

Total Credits 15

Spring
PTA 200 Professionalism, Ethics and Exam Preparation .................................. 4
PTA 203 Contemporary Topics in Physical Therapy ............................ 2
PTA 280C Co-op Ed: Third Clinical Affiliation ..................................... 6

Total Credits 12

Respiratory Care

Offered by Health Professions Division, 541.463.5617

Two-Year Associate of Applied Science Degree

Purpose To prepare graduates to demonstrate competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).

Learning Outcomes The graduate will:

• provide age-specific treatment, management, control, and care of patients with deficiencies and abnormalities associated with respiration.
• provide patients with therapeutic use of medical gases, air and oxygen administering apparatus.
• appropriately use environmental control systems, humidification and aerosols, medications, ventilatory control.
• provide pulmonary hygiene appropriate to patient’s condition.
• perform cardiopulmonary resuscitation, and measures and maintenance of natural, artificial, and mechanical airways.
• use clinical decision skills to create appropriate patient care plans.
• use appropriate library and information resources to research professional issues and support lifelong learning.
• formulate questions that can be addressed with data, and collect, organize and present relevant data to answer them.

Job Openings Projected through 2020

Lane County openings - 6 annually
Statewide openings - 50 annually

Wages
Oregon average hourly - $28.73; average annual - $59,752

Academic Advising Online
Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Costs (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition and fees for prerequisite and program courses. Prerequisite costs will vary for transfer students.)

<table>
<thead>
<tr>
<th>Cost</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Resident Tuition and Student Fees</td>
<td>$9,886</td>
</tr>
<tr>
<td>Differential Fees</td>
<td>$4,327</td>
</tr>
<tr>
<td>Computer and Internet Service</td>
<td>$1,200</td>
</tr>
<tr>
<td>Other Program Costs</td>
<td>$202</td>
</tr>
<tr>
<td>Total Estimate</td>
<td>$17,345</td>
</tr>
</tbody>
</table>

* This is the total of all the differential fees attached to Respiratory Care courses. These fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Student health insurance is required in the program. This can be obtained through the student health insurance (information available at the student health clinic) or other health insurance providers. (Cost variable based on individual circumstances.) A physical examination, immunizations, and criminal background check are required for the program. Criminal background check must pass clinical affiliate criteria for student to participate in required clinical courses. (Cost of meeting these requirements can vary between $250 and $500.)

Costs incurred while in the program related to transportation and childcare, and postgraduate credentialing and state licensure, are not included in this estimate. Costs related to completion of program course pre-requisites are not included, Cost of travel to, and parking at, clinical affiliates varies with assignment. Licensure and post-graduate credentialing can cost up to $730 depending on the level of credentialing and State Licensure Fees. For further information related to licensure process or fees in Oregon, contact: Oregon Health Licensing Agency, Respiratory Therapist Licensing Board 503.378.8667. Students should consider the additional costs of these requirements.

Licensing or Other Certification Exams Required Graduates are eligible to take the Entry-Level and Advanced Practitioner exams to obtain national credentialing as a Registered Respiratory Therapist. (National Board for Respiratory Therapy, 913.599.4200, nbrc.org). Successful completion of the Entry Level exam qualifies the graduate for state licensure as a Respiratory Care Practitioner. (Oregon State Respiratory Care Practitioner License - Oregon Health Licensing Agency, 503.378.8667, oregon.gov/OHLA/RT)

Admission Information The Respiratory Care Program blends on-line and on-campus learning activities. An applicant must complete a Respiratory Care Program application. The application information packet, submission timeline, and first-day enrollment requirements are found on the program web page, lanecc.edu/hpfr.

Prerequisites The most current information regarding the curriculum, program prerequisites, admission standards and procedures is available at lanecc.edu/hpfr. Updates or changes to the curriculum, prerequisites, or admission standards and procedures will be posted to program web page.

Prerequisite Courses for Program Application In order to apply for fall entry all applicants must complete the following minimum prerequisites as indicated below. Other specialized program requirements will be described in acceptance materials.

- MTH 095 Intermediate Algebra (5 credits), or higher (4 or more credits) graded C- or better.
- CH 112 Chemistry for Health Occupations * and BI 112 Cell Biology for Health Occupations * (3 credits each), or 100-level or higher college chemistry course (5 credits or more) pass/no pass option okay, or grade equal to C- or better
- BI 231 Human Anatomy and Physiology 1 (4 credits) Graded “C-” or better
- HO 100 Medical Terminology 1 (3 credits) pass/no pass option okay, or grade equal to C- or better
- WR 121 Introduction to Academic Writing * (4 credits) pass/no pass option okay, or grade equal to C- or better

Prerequisite Courses for Program Entrance The following first day enrollment requirements must be completed, and approved documentation submitted, prior to enrolling in fall term program course. For more information, see lanecc.edu/hpfr.

- BI 232 Human Anatomy and Physiology 2 (4 credits) (Graded – “C-” or better)
- Evidence of a physical examination (within the previous nine months)
- CPR Certification for Health Care Professionals – 2-year certification preferred
- Physical Exam
- Proof of required immunizations
- Criminal background check

Program Accreditation The Respiratory Care Program is accredited by the Commission on Accreditation for Respiratory Care, coarc.com.

Cooperative Education (Co-op) Respiratory care students earn college credit for participation in job-related activities in respiratory care professional settings under direct supervision. Through Co-op, enrolled students develop skills, connect classroom theory with practice, expand career knowledge, and make contacts for potential future employment in respiratory care. Co-op may be taken as an optional elective, and is a required course as the clinical capstone ICU practicum course in the final term. Contact Norma Driscoll, Respiratory Care Co-op Coordinator, Bldg. 30, Rm. 210, 541.463.3176, driscolln@lanecc.edu

Counseling and Advising For assistance in meeting program or application requirements, please go to Counseling and Advising in Building 1, Room 103, or e-mail RCPmobile@lanecc.edu. Registration in on-line (Moodle) Academic Advising for Respiratory Care is highly recommended. Drop-in advising is available in Building 1, Room 103.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. Human Relations and Health/PE choices are listed on the Associate of Applied Science degree page.
3. To enroll in RT 112, RT 114, or RT 146, a student must be accepted into the Respiratory Care program.
4. Clinical courses (RT 146, RT 248, RT 258, RT 268, RT 270) are available Pass/No Pass only. All other courses must be completed with a letter grade, not P/NP, to meet program requirements.

Program Coordinator Norma Driscoll, BS, RRT, 541.463.3176, driscolln@lanecc.edu
# Two-Year Associate of Applied Science Degree

## First Year

### Fall
- BI 233 Human Anatomy and Physiology 3 .......................... 4
- RT 112 Respiratory Care Science ........................................ 2
- RT 114 Fundamentals of Respiratory Care ............................. 2
- RT 146 Introduction to Clinical Respiratory Care ................. 3
- Human Relations requirement ............................................ 3
- The following are preferred:
  - CG 203 Human Relations at Work
  - CG 191 Issues in Cultural Diversity
  - HO 102 Diversity Issues in Health Care

**Total Credits 14**

### Winter
- BI 234 Microbiology ...................................................... 4
- RT 116 Basic Respiratory Assessment ................................ 2
- RT 127 Respiratory Care Diseases and Medications ............. 4
- RT 141 Principles of Respiratory Care Lab ......................... 1
- RT 144 Principles of Respiratory Care ................................ 3

**Total Credits 14**

### Spring
- RT 126 Respiratory Care Case Review - Part 1 ................. 2
- RT 236 Clinical Practice 1 ............................................. 8
- RT 251 Pulmonary Diagnostics and Monitoring Lab ............ 1
- RT 254 Pulmonary Diagnostics and Monitoring .................. 3

**Total Credits 14**

### Second Year

### Fall
- RT 110 Introduction to Mechanical Ventilation .................. 3
- RT 136 Respiratory Care Case Review - Part 2 ................. 4
- RT 248 Clinical Practice 2 ............................................. 6

**Total Credits 13**

### Winter
- RT 256 Respiratory Care Case Review - Part 4 ................. 2
- RT 262 Neonatal/Pediatric Respiratory Care ...................... 3
- RT 266 Emergency and Critical Care - Part 1 ................. 3
- RT 268 Clinical Practice 4 ............................................. 8

**Total Credits 14**

### Spring
- Health/PE requirement .................................................. 3
- Preferred: HE 275 Lifetime Health and Fitness
- RT 270 Clinical Competency Assessment ......................... 1
- RT 274 Credentialing Topics .......................................... 2
- RT 276 Emergency and Critical Care - Part 2 ................. 2
- RT 280 Co-op Ed: Respiratory Therapy ......................... 4
- Arts and Letters .......................................................... 4
- The following are preferred:
  - SP 111 Fundamentals of Public Speaking
  - SP 115 Introduction to Intercultural Communication
  - SP 218 Interpersonal Communication
  - SP 220 Communication, Gender and Culture

**Total Credits 16**

## Optional courses each term:
- RT 148 Advanced Placement Clinical Practice
- RT 298 Independent Study
- RT 280 Co-op Ed

## Total Credits
- Fall: 14
- Winter: 14
- Spring: 16
- Second Year Fall: 13
- Second Year Winter: 14
- Total: 16

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## Retail Management

**Offered by the Business Department, 541.463.5221**

### Two-Year Associate of Applied Science Degree

#### Career Pathway Certificate of Completion

#### Purpose
This two-year Retail Management Associate of Applied Science degree program provides a program of study for retail employees and for students who would like to advance to retail store supervision, store management, and be qualified to move forward into corporate leadership. This program represents skills identified by the retail industry at the statewide level, as represented by the Western Association of Food Chains.

#### Learning Outcomes
The graduate of the Associate of Applied Science program will:

- understand the purpose, context, concepts, and processes of retailing and the retail environment and the responsibilities of the retail operations function.
- understand various leadership styles.
- understand various ethical tools and the reasoning behind various ethical positions.
- determine appropriate and inappropriate interview, hiring, and employee supervision procedures.
- understand team-based, multicultural work force and the responsibilities of management in handling and motivating employees to achieve organizational objectives.
- apply leadership skills to achieve a motivational and productive culture and climate.
- understand the impact of technology on marketing and recognize how the major elements of the marketing process apply to actual marketing situations.
- define theories and strategies of business management, including human resources management and operations management.
- understand the basic terms and concepts of accounting, and the content of financial statements and be able to understand and interpret the information they contain.
- deliver well-organized, clear written and oral business presentations that inform, recommend, and train.
- prepare computations for industry requirements, including discounts and mark-ups, returns and allowances, and data to maintain good records.
- demonstrate proficiency with office suite products, including word processing, spreadsheets, database, communication, and presentation software.
- appreciate the significance of meeting employer/retailer needs in providing superior customer service and apply communication skills to improve customer service and work relationships.
- use appropriate library and information resources to research business topics.
- apply critical thinking and analytical skills in decision-making and problem solving.

#### Job Openings Projected through 2020
- Lane County openings - 50 annually
- Statewide openings - 603 annually

#### Wages
- Lane County average hourly - $20.01; average annual - $41,619
- Oregon average hourly - $19.17; average annual - $39,870

#### Costs
(Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)
- Resident Tuition and Student Fees ......................... $8,377
- Books and Materials ........................................... $3,200

**Total Estimate** $11,577
Retail Management courses fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Note All Business Department majors must have a computer that meets minimum system requirements. Contact the department or Academic Advisor for details.

Cooperative Education (Co-op) Co-op offers students graded college credit for on-the-job work experience related to educational and career goals. Through Co-op students connect theory and practice, develop skills, expand career knowledge, and make contacts for future employment. Three credits of Co-op are required for the AAS degree. Additional Co-op credit is strongly recommended as an elective. Contact Jamie Kelsch, Retail Management Co-op Coordinator, Bldg. 19, Rm. 253A, 541.463.5540, kelschj@lanecc.edu

Course Requirements

1. Students must place at least into WR 121 and MTH 065, or take classes to reach these levels before enrolling in program courses.
2. Before enrolling in BT 120 MS WORD for Business or BT 123 MS EXCEL for Business, students are expected to have a basic knowledge of the Windows operating system and the ability to type 30 words per minute accurately and key 130-132 strokes per minute on an electronic calculator (or numeric keypad). The Business Department offers free placement tests to assist students in determining their skill levels. Additional testing information and schedule details are available at: lanec.edu/business/testing/keyboard-skill-competency-recommendations
4. BA 224, WR 121, and HE 252 must be completed with a letter grade, not P/NP, and must be passed with a grade of “C-” or better to satisfy program requirements. All other courses must be passed with letter grade of “C” or better to satisfy program requirements.

Required Prerequisite

BT 108 Business Proofreading and Editing .......................... 4
Total Required Prerequisite Credits 4

Retail Management

Two-Year Associate of Applied Science Degree

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 101 Introduction to Business                     4</td>
<td>BA 214 Business Communications                  4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BT 120 MS WORD for Business                          3</td>
<td>BA 223 Marketing                                 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 120 Concepts of Computing: Information Processing</td>
<td>Choice of:.................................................. 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choice of:.................................................. 4</td>
<td>SP 111 Fundamentals of Public Speaking           4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits 15</td>
<td>SP 100 Basic Communication                       4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing              4</td>
<td>SP 130 Business and Professional Speech           4</td>
<td></td>
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</tr>
<tr>
<td>Total Credits 15</td>
<td>Total Credits 15</td>
<td>Total Credits 13</td>
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</tbody>
</table>

BA 206 Management Fundamentals                        3                      |
BA 249 Retailing                                     4

Choice of:................................................................. 4
BT 165 Introduction to the Accounting Cycle 4
BA 211 Financial Accounting                          3
BT 206 Co-op Ed: Business Seminar                   2
MTH 080 Beginning Algebra or higher                  4
Total Credits 17

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 278 Leadership and Team Dynamics                     4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BT 123 MS EXCEL for Business                             4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HE 252 First Aid                                           3</td>
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</tr>
</tbody>
</table>
| SP 115 Intercultural Communication                    4
| Total Credits 15                                            | BA 226 Business Law                               4                      |
| BT 221 Budgeting for Managers                           4
| ECON 200 Principles of Economics: Introduction to Economics | SP 105 Listening and Critical Thinking         4
| Total Credits 15                                            | Total Credits 15                                  | Total Credits 13                          |

BA 228 Sales                                             3                      |
BA 251 Supervisory Management                            4
BA 284 Retail Capstone                                   4
BA 280RM Co-op Ed: Retail                               3

Retail Management

Career Pathway Certificate of Completion

Purpose This Career Pathway Certificate of Completion represents skills identified by the retail industry, as represented by the Western Association of Food Chains, which desires to provide a program of study for their employees and for students who would like to become retail employees. This program is recognized by retail employers and identifies skills that lead to professional growth, hiring, and advancement opportunities. This program is a body of study that prepares the student for retail sales and management responsibilities. Those who complete the program will be given preference in hiring, will be eligible for promotions, and will receive compensation to recognize their educational achievement.

Learning Outcomes The graduate will:

• understand the purpose of retailing and the retail environment and the responsibilities of the retail operations function.
• understand the advantages, disadvantages, and circumstantial uses of various leadership styles.
• understand various ethical tools and the reasoning behind various ethical positions.
• determine appropriate and inappropriate interview and hiring questions.
• understand the opportunities and challenges posed by a multicultural workforce and the responsibilities of management in handling and motivating employees in the current business environment.
• understand the impact of technology on marketing and recognize how the major elements of the marketing process apply to actual marketing situations.
• define theories and strategies of business management, including human resources management and operations management.
• understand the basic terms and content of financial statements and be able to understand and interpret the information they contain.
• understand communication theory and give well-organized, clear business presentations that inform, recommend, and train.
• understand the basics of word processing, spreadsheets, database management, and internet communications.

**Course Requirements**
All courses must be passed with letter grade of "C" or better to satisfy program requirements.

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 101 Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>CS 120 Concepts of Computing: Information Processing</td>
<td>4</td>
</tr>
<tr>
<td>MTH 060 Beginning Algebra or higher</td>
<td>4</td>
</tr>
<tr>
<td>Choice of:</td>
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<tr>
<td>SP 111 Fundamentals of Public Speaking</td>
<td></td>
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<tr>
<td>SP 100 Basic Communication</td>
<td></td>
</tr>
<tr>
<td>SP 130 Business and Professional Speech</td>
<td></td>
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</tbody>
</table>

**Total Credits**: 16

**Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 214 Business Communications</td>
<td>4</td>
</tr>
<tr>
<td>BA 223 Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA 224 Human Resource Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 11

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 249 Retailing</td>
<td>4</td>
</tr>
<tr>
<td>BA 278 Leadership and Team Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>BT 165 Introduction to the Accounting Cycle</td>
<td>4</td>
</tr>
<tr>
<td>BA 211 Financial Accounting</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**: 12

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**Sustainability Coordinator**

**Offered by the Institute of Sustainable Practices**, 541.463.6160

**Two-Year Associate of Applied Science Degree**

**Purpose**
To prepare students for careers as sustainability coordinators, resource management technicians, corporate social responsibility coordinators, environmental specialists, recycling coordinators, pollution prevention specialists and energy or waste reduction analysts. Graduates may work for public agencies, school districts, colleges or universities, non-governmental organizations, nonprofit organizations, private businesses or corporations.

**Learning Outcomes**
Graduates will:

- demonstrate holistic understanding of interdisciplinary subjects related to sustainability including physical and biological sciences, social and behavioral sciences, economics, the regulatory environment, and business management.
- develop policies that support the triple bottom line of sustainability: healthy economy, healthy environment, and healthy communities.
- obtain information from public and research libraries, online sources, and national, international, and international networks.
- demonstrate skills in data collection and analysis, statistical analysis, and basic mathematics.
- demonstrate skills in the use of computer programs and databases that track and measure.
- perform environmental audits, perform laboratory and field tests, conduct and coordinate research, and prepare written reports for internal and external stakeholders.
- demonstrate understanding of the causes and the ecological, social, and economic costs of challenges to sustainability including pollution, climate change, loss of biodiversity, water quality and supply, and human health.
- apply practical and technical strategies to objectives including pollution prevention, climate change reduction, energy conservation and use of alternative energy, efficient resource use, waste reduction and recycling, LEED and other green building tools, water conservation, stormwater and wastewater management, indoor air quality, transportation, closed loop production and life cycle analysis.
- articulate verbal and written understanding of laws and regulations related to sustainable environment, business and community.
- develop and implement action plans based on best practices; coordinate project management goals and tasks.
- conduct public relations and social marketing efforts; develop educational materials; and create community networks and resources to support sustainability practices in business and community.
- demonstrate the ability to organize events, meetings, workshops, conferences and fundraising.
- utilize collaborative team skills in the design and implementation of sustainable practices.

**Employment Trends**
Sustainability Coordinator is an emerging occupation for which State of Oregon historical data are not yet available. Market surveys of regional and statewide employers indicate job growth potential is significant and expected to increase.

**Wages**
Based on Oregon Employment Department wage data for related occupations including environmental science technician, environmental engineering technician, life-physical-social science technician, and public relations specialist predicted average wages: Statewide hourly - $20-$23, Lane County hourly - $19-$22. Predicted entry-level wages are $11-$16 hourly.

**Costs**
Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.

<table>
<thead>
<tr>
<th>Resident Tuition and Student Fees</th>
<th>Total Estimate $11,387</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and supplies</td>
<td>$2,500</td>
</tr>
</tbody>
</table>

**Prerequisites/Application Requirements**
Students must qualify for MTH 095 and WR 121, either by placement testing or by completing prerequisite courses. Students are expected to be comfortable working on a computer. Students should consult with a counselor or advisor to plan a program of study.

**Admission Information**
Students typically enter in fall term. For consent to enroll in certain major courses, students must attend a program orientation for fall term (dates available in Counseling or Enrollment Services). Contact advisor/counselor for possible entry in winter or spring terms. Contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

**Cooperative Education (Co-op)**
Co-op internship is a required and important part of the Sustainability Coordinator program. Through Co-op students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Contact Gerry Meenaghan, Cooperative Education Coordinator, Bldg. 19, Rm. 231A, 541.463.5883.
Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All BI, DRF ECON, ENVS, and PS courses must be completed with a letter grade of “C-” or better.
3. All CG, MTH, WR, and BT 124 must be completed with a “C-” or better or Pass grade.
4. Department permission is required for SUST 101.

Two-Year Associate of Applied Science Degree

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>HE 255 Global Health and Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 181 Terrestrial Environment</td>
<td>4</td>
</tr>
<tr>
<td>GS 104 Physical Science</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATR 280 Co-op Ed: Sustainability Coordinator</td>
<td>3</td>
</tr>
<tr>
<td>CG 203 Human Relations at Work</td>
<td>3</td>
</tr>
<tr>
<td>CH 104 Introductory Chemistry</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 103J General Biology: Forest Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BI 103M General Biology: Biodiversity and Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>ECON 260 Introduction to Environmental and Natural Resource Economics: Water</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 184 Global Climate Change</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 095 Intermediate Algebra</td>
<td>5</td>
</tr>
<tr>
<td>BT 123 MS Excel for Business</td>
<td>4</td>
</tr>
<tr>
<td>WR 227 Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>WATR 202 Fostering Sustainable Practices</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 105 Introduction to Contemporary Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>PS 297 Environmental Politics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 250 Class, Race and Gender in the US Economy</td>
<td>4</td>
</tr>
<tr>
<td>CST 201 Sustainable Building Practices</td>
<td>3</td>
</tr>
<tr>
<td>IDS 206S Co-op Ed: Sustainability Coordinator Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 201 Sustainability Systems Seminar</td>
<td>1</td>
</tr>
<tr>
<td>IDS 280S Co-op Ed: Sustainability Coordinator</td>
<td>3</td>
</tr>
<tr>
<td>DRF 211 Mechanical Systems</td>
<td>4</td>
</tr>
<tr>
<td>BT 124 MS Access for Business</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 183 Aquatic Environment</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Water Conservation Technician

Offered by the Institute of Sustainable Practices, 541.463.6160

Purpose

This degree prepares students to enter careers in the water field as water efficiency technicians and workers, coordinators, specialists or managers or as water management specialists and technicians. The program prepares students to design, implement and evaluate water conservation programs. Upon successful completion of the program students will have the opportunity to seek professional certification.

Learning Outcomes

The graduate will:

- evaluate indoor and outdoor water use patterns for rural, urban, residential and commercial sites.
- recommend water efficiency measures, wise water landscapes and efficient plumbing solutions.
- design, implement and evaluate water conservation programs.
- convey water conservation strategies to a broad audience using multiple communication methods.
- understand regional regulatory context and international code trends as they pertain to water conservation.
- develop basic knowledge of water resource economics and how economics relates to supply and demand.
- understand water distribution, flow and elimination systems as well as time of use.
- create technical reports and collect, interpret, display and explain data.
- perform technical reports using water bills, meters and other evidence to solve problems.

Employment Trends

The annual projected number of openings in Oregon is growing moderately and in the future will grow rapidly along with population growth. In addition to openings resulting from growth, the need to replace retirees or those who transfer to other occupations will provide numerous job openings. Graduates must consider the entire nation for job placement as those that do will enhance their opportunities.

Wages

In Oregon range from $32,000 to $48,500 annually plus benefits.

Costs

(estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

- Resident Tuition and Student Fees: $9510
- Other Course/Program Costs: $1000

Water Conservation Technician course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Admission Requirements

A high school diploma (or equivalent) and completion of Math 065 or 070 with a grade of C, and turned in a completed Water Program application form. This is a limited enrollment program.

Admission Information

541.463.6161, Downtown Campus Room 406, youngg@lanecc.edu or 541.463.6160, Downtown Campus Room 412-A, ebbager@lanecc.edu

Program Information

Roger Ebbage, 541.463.6160 or Ginny Young 541.463.6161

Cooperative Education (Co-op)

Cooperative Education provides sustainability-related field experience to integrate theory and practice while developing skills and exploring career options. Students must complete a minimum of nine and a maximum of 18 Co-op credits. Contact Gerry Meenaghan, Cooperative Education Coordinator, Bldg. 19, Rm. 231A, 541.463.5883.

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.
2. All WATR courses except WATR 102 and 280 require instructor permission.
3. MTH 095 must be completed before spring term of the first year.
4. WATR 280 Co-op Ed may also be taken during summer term.
5. Directed electives, Writing, Health/PE, CG 203 and ECON 260 can be taken any term.
6. See catalog for Health/PE choices in AAS degree requirements.
7. All courses must be taken for a letter grade except CG203, ENVS181, GIS 151, Health/PE, WATR 102, WATR 206, WATR 222, and WATR 280.
8. All courses must be passed with a “C-” or better except ENVS 181, GIS 151, Health/PE, MTH 095, WATR 102, WATR 222, and WR.

First Year

Fall
WATR 101 Intro to Water Resources ............................................................... 3
BT 123 MS Excel for Business ............................................................... 4
WR 121 Composition: Introduction to Academic Writing .......................... 4
WATR 102 Water Careers: Exploration .................................................. 4
GIS 151 Digital Earth ............................................................................ 4
Total Credits: 19

Winter
SUST 101 Intro to Sustainability ................................................................. 3
WATR 105 Water Conservation: Residential ........................................... 4
MTH 095 Intermediate Algebra or higher ............................................. 5
WR 227 Technical Report Writing .......................................................... 4
WATR 206 Co-op Ed: Water Conservation Seminar ................................ 1
Physical Education Activity Requirement: Health requirement
Total Credits: 18

Second Year

Fall
WATR 210 Water Conservation: Industrial, Commercial ......................... 4
WATR 208 Water Conservation: Agricultural ........................................... 4
WATR 261 Regional Water Policy .............................................................. 3
WATR 280 Co-op Ed: Water Conservation Program Development ........... 3
Total Credits: 17

Winter
GIS 245 GIS 1 ................................................................................. 4
WATR 202 Fostering Sustainable Practices ........................................... 3
WATR 206 Co-op Ed Water Conservation Seminar .................................. 1
WATR 220 Water Conservation Program Development .......................... 4
WATR 280 Co-op Ed: Water Conservation .............................................. 3
Total Credits: 15

Spring
WATR 215 Integrated Water Resources Management ................................ 4
WATR 221 Water Mechanical Systems .................................................... 4
WATR 222 Stormwater Best Management Practices ................................. 4
WATR 280 Co-op Ed: Water Conservation .............................................. 3
Total Credits: 18

Restricted Electives:
ECON 200 - Principles of Economics: Introduction to Economics
ECON 201 - Principles of Economics: Introduction to Microeconomics
ECON 202 - Principles of Economics: Introduction to Macroeconomics

ED 100 - Introduction to Education
ENVS 182 - Atmospheric Environment and Population
ENVS 183 - Aquatic Environment
ENVS 184 - Global Climate Change
SOC 206 - Institutions and Social Change
SP 100 - Basic Communication
SP 105 - Listening and Critical Thinking
SP 111 - Fundamentals of Public Speaking
SP 112 - Persuasive Speech
SP 115 - Introduction to Intercultural Communication
SP 130 - Business and Professional Speech
GIS 245, GIS 246, GIS 260
Any Business Administration (BA) or Business Technology (BT) classes
Any Energy Management (NRG) classes
Any Spanish (SPAN) Language classes
Any Graphic Design (GD), Multimedia (MUL) or Multimedia Production (MPD) classes
Any Landscape/Nursery Technology (LAT) classes
Any Geographic Information Science (GIS) classes

Watershed Science Technician

Offered by the Science Division, 541.463.5446
Two-Year Associate of Applied Science Degree

Purpose The Watershed Science Technician program will train graduates for entry-level positions in environmental sustainability careers related to conserving, enhancing, restoring and protecting ecological processes in watersheds (stream drainage basins). Graduates will be able to work in multidisciplinary fields that survey and assess watersheds and develop strategies and solutions to maintain and restore healthy water resources. This curriculum prepares students to work in the following jobs: watershed resource conservation professionals; stream restoration or water quality technicians; assistant stream ecologists; assistant forest ecologists; environmental technicians; or natural resource specialists for public agencies, non-governmental organizations, nonprofit conservation and restoration organizations, consulting firms, and private restoration companies.

Learning Outcomes The graduate will:

- demonstrate use of concepts and principles of ecological processes and their interdisciplinary connections that influence the practice of watershed science, including:
  - Hydrologic Processes and Watersheds
  - Erosion, Sedimentation, Water Quality
  - Ecology of Aquatic and Wetland Environments
  - Ecology of Terrestrial Environments

- identify common species, ecosystems and ecological processes relevant to watershed assessments, with an emphasis on the Pacific Northwest.

- perform field identification, field test procedures and ecological surveys using proper, precise, and safe application of measurement tools and technologies.

- utilize intermediate algebra skills, computer programs, databases, and basic geographic information systems to collect, organize, interpret and communicate watershed data.

- apply standard water management approaches and best practices to develop effective conservation and management strategies to meet watershed goals.

- communicate effectively and accurately with supervisors, colleagues, funding agencies and the public using the spoken and written word and visual representations of information.

- use appropriate library and information resources to research professional issues and support lifelong learning and job advancement.
Employment Trends  Watershed Science Technician is an emerging career. Related occupations such as Forest and Conservation Technicians, Environmental Science and Protection Technicians, Conservation Scientists, Zoologists and Wildlife Biologists and hydrologists are estimated to have 9% to 29% growth nationally and 0.4 to 12.6% growth in Oregon over the next decade. Forest and Conservation Technicians alone are expected to have 12 regional openings per year and 171 annual openings in Oregon as a whole.

Surveys of professionals in the natural resource protection field indicate that jobseekers entering the field of Watershed Science Technician with hands-on experience and relevant field skills will be at an advantage for employment and job advancement. Students must consider the entire Pacific Northwest when seeking employment, as those willing to relocate will have greater opportunities.

Wages  A fulltime beginning technician’s salary may range from $24,660 to $38,480 annually.

Costs  (Estimate based on 2012 tuition and fees. Consult Lane’s website for updated tuition.)

| Resident Tuition and Student Fees | $9,550 |
| Other Course/Program Costs | $800 |
| **Total Estimate** | $10,350 |

Watershed Science Technician course fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Program Admission Requirements  A high school diploma (or equivalent); completion or math placement tests scores for Math 065 or Math 070; completion or writing placement tests scores for WR 115 or above; and, a completed Watershed Science Technician Program application form. Application forms will be accepted beginning Aug. 1 and continuing through Nov. 30, annually. Students may begin Fall term courses in the program prior to submitting an application. This is a limited enrollment program.

Program Information  Science Office, 541.463.5446, Denise Elder, elderd@lanecc.edu.

Cooperative Education (Co-op)  Cooperative Education is a required and important part of the Watershed Science Technician Program. Through Co-op students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Co-op learning sites and hours vary. Contact Sarah Whitney, Cooperative Education Coordinator, DCA, Rm. 412H, 541.463.6167.

Prerequisite Courses  BT 123 MS Excel for Business or equivalent skills and knowledge

Course Requirements

1. Prerequisites are required for some courses. See course descriptions.

2. ENVS, BI and GIS prefix and GIS 101 courses meet the AAS Science/Math/Computer Science discipline studies requirement and are also AAOT transfer courses.

First Year  Fall
GS 101 General Science: Nature of the Northwest .......... 4
GS 102 General Science: Introduction to Water Resources .......... 2
WATR 095 Intermediate Algebra or higher .......... 5
WATR 101 Introduction to Water Resources .......... 3
WATR 102 Water Careers Exploration .......... 4

Total Credits  18

Winter
ENVS 181 Terrestrial Environment .......... 4
GIS 151 Digital Earth .......... 4
Human Relations (see approved list below) .......... 3
SUST 101 Introduction to Sustainability .......... 3
WR 121 Introduction to Academic Writing .......... 4

Total Credits  18

Spring
BI 103F General Biology: Wildflowers of Oregon .......... 4
ENVS 183 Aquatic Environment .......... 4
WATR 222 Stormwater Best Management Practices .......... 4
WST 206 Soils Field Methods .......... 2

Total Credits  16

Second Year  Fall
BI 103J General Biology: Forest Ecology .......... 4
WATR 261 Regional Water Policy .......... 3
WST 225 Riparian Field Methods .......... 2
WST 226 In-stream Field Methods .......... 2
WR 227 Technical Writing .......... 4

Total Credits  15

Winter
GIS 245 GIS 1 .......... 4
HE 255 Global Health and Sustainability .......... 4
WATR 202 Fostering Sustainable Practices .......... 3
WST 230 Watersheds and Hydrology .......... 4
WST 280 Co-op Ed: Watershed Science Technician .......... 3

Total Credits  18

Spring
GIS 246 GIS 2 .......... 4
WST 234 Watershed Best Practices .......... 4
WST 280 Co-op Ed: Watershed Science Technician .......... 3
Choice of Field Methods: .......... 4-6
WST 221 Invasive Species Field Methods (1 credit) .......... 1
WST 222 Threatened and Endangered Species Field Methods (1 credit) .......... 1
WST 223 Prairies to Woodlands Field Methods (2 credits) .......... 2
WST 224 Wetland Field Methods (2 credits) .......... 2

Total Credits  15-17

Approved Human Relations choices:
BT 112 Team Building Skills
CG 100 College Success
CG 203 Human Relations at Work
GEOG 142 Introduction to Human Geography
PS 213 Peace and Conflict Studies: Local
SOC 204 Introduction to Sociology
SOC 206 Institutions and Social Change
SOC 207 Women and Work
WS 101 Introduction to Women’s Studies

Academic Advising Online

Free online resources are available for ALL majors!  moodle On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Transfer Plans

Note Transfer plans in this section are for students planning to earn a transfer degree (AAOT, AS, AGS) with electives concentrated in major subject. These plans represent only some of the majors students may pursue at a four-year college or university. For a more complete list of transfer majors, see page 48, contact Counseling and advising, 541.463.3200, or see lanecc.edu/counseling.

Major requirements for first- and second-year coursework vary from college to college, so transfer student must consult with advisors or counselors at Lane and also at the intended transfer institution to optimize course choices at Lane.

American Indian Experience

Offered by Multiple Departments

Transfer Plan

This transfer plan offers students courses with focus on American Indian Languages, Art, Anthropology, Biology, Cooperative Education, Ethnic Studies, and Literature.

These courses provide needed credits for graduation with an AAOT and transfer opportunities, and a supportive and community environment. Students who directly benefit from these offerings include:

- students who wish to study an American Indian language as their language requirement at a four-year college or university
- students who plan to study Native American (or American Indian) Studies at a four-year college or university
- students who prefer that their educational experience be less institutional and more in keeping with American Indian culture and tradition
- anyone who has a strong interest in American Indian cultures, histories, languages, or literatures

A notable feature of this transfer plan is the opportunity to participate in two excellent Learning Communities. Learning Communities link subjects and classes to integrate assignments and ideas. Students work closely with and learn from both faculty and peers to gain deeper understanding of the combined subject matter. These Learning Communities are:

Native Circles An entry for students into career planning and college success accomplished in an American Indian cultural context.

Reconnecting with Nature BI 103G Global Ecology; REL 243 Nature, Religion, and Ecology; and PS 297 Environmental Politics. Exploration of reconnecting with nature from the perspectives of science, spirituality, and political activism.

This transfer plan offers the following disciplines and course sequences:

American Indian Languages
AIL 100 Foundations of American Indian Languages
AIL 101 Chinuk Wawa – first year
AIL 102 Chinuk Wawa – first year
AIL 103 Chinuk Wawa – first year

Successful completion of two terms of first-year courses fulfills the Oregon University System’s language requirement for admission to state universities.

AIL 201 Chinuk Wawa – second year
AIL 202 Chinuk Wawa – second year
AIL 203 Chinuk Wawa – second year

Successful completion of this second-year series of courses will fulfill the AAOT Arts and Letters requirement and the Oregon University System’s language requirement for graduation.

AIL 280 Cooperative Education, integrates classroom learning with field experience
ART 203 Survey of American Indian Art and Architecture: North and Central America - fulfills the AAOT Arts and Letters requirement

Anthropology (fulfill the AAOT Social Science and Cultural Literacy requirements)
ANTH 231 American Indian Studies, northeastern and southeastern states
ANTH 232 American Indian Studies, central and southwestern states
ANTH 233 American Indian Studies, west of the Rockies

Biology (fulfills the AAOT Science requirement)
BI 103G Global Ecology, examine nature through Indian eyes and western science

Ethnic Studies (fulfill the AAOT Social Science and Cultural Literacy requirements)
ES 211 Chicano/Latino Experience: Historical and Ideological
ES 241 Native American Experience: Consequences of Native Americans and European Contact
ES 242 Native American Experience: 19th Century Federal-Indian Relations
ES 243 Native American Experience: Contemporary Native American Issues

Literature (fulfill the AAOT Arts and Letters and Cultural Literacy requirements)
ENG 232 Native American Literature
SLD 244 Native American Storytelling

Human Relations (for AAS degrees) and Social Science (for AS and AGS degrees)

CG 101 Native Circles: College Success Native American Style

Additional courses needed for the AAOT Degree:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAOT Arts and Letters requirement</td>
<td>3-9</td>
</tr>
<tr>
<td>AAOT Electives (enough to bring total credits to 90)</td>
<td>Varies</td>
</tr>
<tr>
<td>AAOT Health/Wellness/Fitness requirement</td>
<td>3</td>
</tr>
<tr>
<td>AAOT non-lab Science, Math, Computer Science requirement</td>
<td>3-4</td>
</tr>
<tr>
<td>AAOT Oral Communication requirement</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Science with lab requirement</td>
<td>8</td>
</tr>
<tr>
<td>MTH 105 Introduction to Contemporary Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>WR 122 Composition: Argument, Style and Research</td>
<td>4</td>
</tr>
</tbody>
</table>

Important American Indian support at Lane Community College is provided by:

- Native American Program, a program dedicated to counseling Lane’s American Indian and Alaska Native students.
- Native American Student Association (NASA), an America Indian student organization and club open to all students that fosters traditional values and unity among students.
- Longhouse: Lane Community College has an American Indian long house on campus for Native programs and activities.
- Rites of Passage: Umista is a Summer Academy for Native American youth in middle and high schools.

For more information, contact:
James Florendo, 541.463.5238, florendoj@lanecc.edu
Jeff Harrison, 541.463.5145, harrisonj@lanecc.edu
Michael Sámano 541.463.5186, samanom@lanecc.edu
Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Please note: The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Prerequisites are required for some courses. See course descriptions.

Art Transfer
Offered by the Arts Division, 541.463.5409
Two-Year Associate of Arts Oregon Transfer Degree

This curriculum is designed for the student who intends to complete requirements for an Associate of Arts Oregon Transfer (AAOT) degree and transfer to a four-year university with a major in Art. Detailed information about the AAOT can be found under the Degrees and Certificates section of the catalog.

The curriculum is comprised of general education requirements, major requirements and electives. Completion of the AAOT degree will satisfy all the lower division (freshman and sophomore) general education requirements at any four-year public university in the state of Oregon. Completion of the Art courses listed below will typically satisfy lower division Art major requirements for most schools. Some Art programs may require additional coursework. Students planning to transfer to private art colleges or out-of-state schools should consult with an advisor at the intended transfer college to select appropriate courses at Lane.

Please note: The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

See AAOT degree course list for classes that satisfy the Cultural Literacy requirement.

For planning purposes it is best to apply for transfer admission, program admission and financial aid by January 15th of the desired transfer year. Check specific transfer program for application deadlines.

Academic Advising Online

Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
### Aviation Technology

**Offered by Lane Aviation Academy, 541.463.4195**

**Transfer Plan**

The curriculum outlined is a transfer plan for students preparing for a transfer degree and aviation careers. Examples of aviation career fields are professional pilots, managers, airways sciences (air traffic control) or air transportation security. Completion of these courses leads to an Associate of Arts Oregon Transfer Degree, with coursework appropriate for a baccalaureate major in aviation fields. Students intending to transfer to an Oregon university should consult with their career counselors for a specific transfer plan.

**Please note** The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Choose from the list of approved courses for the AAOT Cultural Literacy requirement if this requirement has not been met. Oregon four-year public universities accept up to 12 credits of Career Technical courses (like FT and AS courses) toward a Bachelor’s degree.

Prerequisites are required for some courses. See course descriptions. Students will need to complete prerequisites for mathematics and economics courses prior to enrolling.

### Two-Year Core Curriculum

**First Year**

**Fall**
- FT 102 General Aviation Careers ........................................ 1
- FT 103 Aircraft Development .................................................. 4
- FT 115 Aircraft Systems and Structures .................................. 3-4
- PSY 201 General Psychology or ............................................. 3
- SOC 204 Introduction to Sociology ......................................... 4
- WR 121 Introduction to Academic Writing ................................ 4
- HE 275 Lifetime Health and Fitness ....................................... 3
- AS 111 Air Force Today (optional) ........................................... (1)


**Winter**
- ECON 201 Principles of Economics: Microeconomics .............. 3
- GEOG 142 Introduction to Human Geography ......................... 4
- SP 111 Fundamentals of Public Speaking ................................ 4
- WR 122 Composition: Argument, Style and Research .............. 4
- CG 203 Human Relations at Work ........................................... 3
- AS 120 Leadership Laboratory (optional) ............................... (1)


**Spring**
- ECON 202 Principles of Economics: Macroeconomics .......... ..... 3
- SP 112 Persuasive Speech .................................................... 4
- FT 130 Primary Flight Brief .................................................. 3
- Arts and Letters Requirement ................................................ 4


**Total Credits** 14-15

**Second Year**

**Fall**
- BA 101 Introduction to Business ........................................... 4
- PH 101 Fundamentals of Physics ............................................. 4
- MTH 111 College Algebra ..................................................... 5
- WR 227 Technical Writing ..................................................... 4
- AS 211 Development of Air Power (optional) ......................... (1)


**Winter**
- PH 102 Fundamentals of Physics ............................................. 4
- MTH 243 Introduction to Probability and Statistics ............... 4
- FT 254 Aerodynamics ......................................................... 3
- GS 109 Meteorology ............................................................ 5


**Spring**
- PH 103 Fundamentals of Physics ............................................. 4
- BA 254 General Aviation Management ................................. 3
- SP 218 Interpersonal Communication .................................. 4
- Arts and Letters Requirement ................................................ 4
- AS 220 Leadership Laboratory (optional) ............................... (1)


**Total Credits** 14-15

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**Academic Advising Online**

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Biology Transfer

Offered by Science Division, 541.463.5446

Transfer Plan for Associate of Science and Associate of Arts Oregon Transfer degrees

This transfer plan is for students interested in pursuing a bachelor’s degree in biology. Lane Community College offers the first two years of college core science and general education courses needed for most biology majors. The transfer plan shown below includes lower division general education requirements needed for a degree at a public university in Oregon.

Many Lane biology students transfer to the University of Oregon (U of O), and many have continued successfully at other colleges and universities. Students who wish to complete all of the lower division general education requirements for U of O before they transfer may earn an Associate of Science (AS) degree or an Associate of Arts Oregon Transfer (AAOT) degree while at Lane. In addition to the U of O general education and biology core requirements, only a few additional credits are required to earn the AS or AAOT degree from Lane. See Lane’s Science academic advisor or counselor for more information.

Associate of Science (AS) and Associate of Arts Oregon Transfer (AAOT) degree plan for Biology Transfer Students to the University of Oregon

The following plan for Biology students satisfies the requirements for an Associate of Science degree or the Associate of Arts Oregon Transfer degree from Lane Community College, including all required Biology and all necessary general education courses. Completing all courses may take longer than two years.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Additionally, the general education courses in this transfer plan will satisfy all of the lower division general education requirements for graduating from the University of Oregon. Requirements can change, so it is critical that you see one of Lane’s Science advisors for assistance in choosing these specific courses to ensure that they meet both Lane and the U of O requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Students who are prepared to begin Calculus in their first year should substitute MTH 251 and MTH 252 (Calculus 1 and 2) for the mathematics courses listed below. These students can complete the requirements for either the AS or AAOT degree in two years by adding one or two summer terms to their course plan. Students should consult with Lane’s Science academic advisor or counselor for assistance in course planning.

Prerequisites are required for some courses. See course descriptions.

See AS degree requirements for approved Arts and Letters, Speech, and Social Science courses; and see Biology academic advisor for course selection assistance.

See AAOT degree requirements for approved Health/Wellness/Fitness, Arts and Letters and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy requirement.

AAOT degree courses must be completed with a minimum grade of Pass or C-. There is a minimum 2.0 GPA requirement for graduation.

Associate of Science degree or AAOT degree at Lane.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 211</td>
<td>Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>BI 212</td>
<td>Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>CH 221</td>
<td>General Chemistry 1</td>
<td>5</td>
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<tr>
<td>CH 222</td>
<td>General Chemistry 2</td>
<td>5</td>
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<tr>
<td>CH 223</td>
<td>General Chemistry 3</td>
<td>5</td>
</tr>
<tr>
<td>CH 241</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CH 242</td>
<td>Organic Chemistry</td>
<td>5</td>
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<tr>
<td>CH 243</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Choice of:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>BOT 213</td>
<td>Principles of Botany</td>
<td></td>
</tr>
<tr>
<td>Z 213 Principles of Zoology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 111 College Algebra</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>MTH 112</td>
<td>Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MTH 251</td>
<td>Calculus 1 (Differential Calculus)</td>
<td>5</td>
</tr>
<tr>
<td>MTH 252</td>
<td>Calculus 2 (Integral Calculus)</td>
<td>5</td>
</tr>
<tr>
<td>PH 201</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>PH 202</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>PH 203</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>Social Science (for AS or AAOT)</td>
<td></td>
<td>3-4</td>
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<td>Social Science requirement (for AS or AAOT)</td>
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<td>3-4</td>
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<tr>
<td>Social Science requirement (for AS or AAOT)</td>
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<td>Social Science requirement (for AS or AAOT)</td>
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</tr>
<tr>
<td>Social Science requirement (for AS or AAOT)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Speech (for AAOT or AS Arts and Letters)</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>WR 122 Composition: Argument, Style and Research</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Business Administration and Accounting Transfer

Offered by the Business Department, 541.463.5221

Lane Community College offers lower division Business major and general education courses for most Oregon public universities, and some private four-year colleges and Business schools. General Education requirements can be completed with an Associate of Arts Oregon Transfer degree, an Associate of Science Oregon Transfer: Business degree, or a Direct Transfer plan. Direct Transfer plans are different for each four-year university and do not qualify for federal financial aid. Information about Lane’s Associates degrees and Direct Transfer plans can
be obtained from Lane’s Business Academic Advising team. Additionally, the Academic Advising team can provide information about Lane’s equivalent Business lower division major courses for the various Business schools.

Admission to Oregon Business schools is competitive and most programs have limited enrollment. Students are encouraged to prepare for application to more than one four-year college. Many of these programs require: 90 transferable credits; specific grade point average for overall transfer credits; specific grade point average for lower division major requirements; completion of specific freshman and sophomore major requirements; a separate program application; and interviews and/or essays. These requirements vary for each Oregon four-year Business school.

**Please note** Business majors will need to be at a WR 121 level before starting Business courses and at a Math 111 level before starting Economics courses to be successful in the major requirements.

The AAOT and ASOT-Business degrees require 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements. GPA requirements for admission to Business schools may be different than the 2.0 GPA required for OUS undergraduate admission.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Consult with an Academic Advisor or Counselor to determine whether or not you need to take college level second language. AAOT and ASOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes.

### Computer Science Transfer

**Offered by the Computer Information Technology Department, 541.463.5221**

**Transfer Plan**

This is a transfer plan for students interested in pursuing a bachelor’s degree in computer science.

Lane Community College offers the first two years of college core computer science and general education courses needed for computer science major disciplines. The AAOT transfer plan shown below includes lower division general education requirements accepted for a degree at a 4-year state institution in Oregon. Certain computer science degree options may require additional courses. Most Lane students transfer to the University of Oregon or Oregon State University, but many have continued successfully at other well-known schools. At the earliest opportunity, an interested student should meet with one of Lane’s Computer Science program advisors. A well-planned transfer plan at Lane is essential to ensure a smooth transition to a university. In addition, it is very important for a transfer student to consult the computer science advisor at the specific intended transfer college or university.

**Please note** The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

See Associate of Arts Oregon Transfer (AAOT) Degree for courses that meet AAOT requirements.

One Arts and Letters or Social Science course needs to meet the AAOT Cultural Literacy requirement.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

All courses except AAOT Arts and Letters, AAOT Social Science and CIS 125D must be taken for a letter grade, not P/NP.

UO also allows other science sequences, including CH 221, CH 222, CH 233 or BI 211, BI 212, BOT/Z 213

Discrete Math 3 is not required at OSU.

See the Lane academic advisor for more specific information.

#### Transfer Plan

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAOT Arts and Letters requirements</td>
<td>9-12</td>
</tr>
<tr>
<td>AAOT Health/Wellness/Fitness requirement</td>
<td>3</td>
</tr>
<tr>
<td>AAOT Social Science requirements</td>
<td>12-16</td>
</tr>
<tr>
<td>CIS 125D Software Tools 1: Databases</td>
<td>4</td>
</tr>
<tr>
<td>CS 160 Orientation to Computer Science</td>
<td>4</td>
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<tr>
<td>CS 161J or CS161C+ Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td>CS 162J or CS162C+ Computer Science 2</td>
<td>4</td>
</tr>
<tr>
<td>CS 260 Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 271 Computer Architecture and Assembly</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td>4</td>
</tr>
<tr>
<td>CS 275 Database Program Development</td>
<td>4</td>
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<tr>
<td>MTH 111 College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>MTH 112 Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MTH 231 Discrete Mathematics 1</td>
<td>4</td>
</tr>
<tr>
<td>MTH 232 Discrete Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td>MTH 233 Discrete Mathematics 3</td>
<td>4</td>
</tr>
</tbody>
</table>
Criminal Justice Transfer
Offered by Social Science Division, 541.463.5427

Associate of Arts Oregon Transfer (AAOT) Degree

This plan is for students who want an AAOT degree and plan to major in criminal justice or criminology at a 4-year Oregon university. Students may also earn an Associate of Applied Science (AAS) degree in Criminal Justice by completing an additional 22 credits beyond those required for the AAOT Degree (see Notes following the transfer plan for specific course suggestions for the AAS degree).

Please note: The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

This outline is current at the time this catalog was printed, and is subject to change. Be sure to contact an academic advisor or program counselor for any updates that may have occurred after this catalog went to print.

First Year

Fall
CJA 101 Introduction to Criminal Justice ............................ 3
SOC 206 Institutions and Social Change ............................... 3
CS 120 or higher computer course ....................................... 4
Choice of ........................................................................ 3
HE 250 Personal Health....................................................... 3
HE 252 First Aid................................................................. 3
HE 275 Lifetime Health and Fitness...................................... 3
AAOT Lab Science ............................................................... 4

Winter
CJA 213 Interviewing and Interrogation ................................. 3
CJA 220 Introduction to Criminal Law ................................ 3
PS 201 U.S. Government and Politics................................. 4
ANTH 103 Cultural Anthropology ....................................... 4
AAOT Lab Science ............................................................... 4

Total Credits 17

Second Year

Fall
CJA 222 Criminal Law: Procedural Issues ............................. 3
SP 105 Listening and Critical Thinking ................................. 4
AAOT Non-lab science ......................................................... 3
PS 202 U.S. Government and Politics.................................... 4

Winter
MTH 111 College Algebra ..................................................... 5
PS 203 State and Local Government and Politics ................ 3
PSY 203 General Psychology .............................................. 4
AAOT Arts and Letters ......................................................... 3

Total Credits 15

Total credits: 92-93

Students who also want to earn an AAS Degree in Criminal Justice need to complete an additional 22 credits beyond the AAOT degree requirements listed above. For the AAS degree, these credits should include:

a) Two Directed Electives from list below

CJA 232 Correctional Casework ......................................... 3
CJA 210 Criminal Investigation .......................................... 3
CJA 214 Introduction to Forensic Science ............................ 3
CJA 243 Narcotics and Dangerous Drugs ............................ 3
CJA 201 Juvenile Delinquency ............................................ 3
SOC 211 Social Deviance ..................................................... 3

b) Complete two terms of 3 credits each of cooperative education, choice of

CJA 280 Co-op Ed.: Criminal Justice .................................. 3
CJA 280 Co-op Ed.: Criminal Justice .................................. 3

C) Complete ten additional credits chosen from the above list of Directed Electives, additional credits of CJA 280 Co-op Ed: Criminal Justice, or open electives.

Dance Transfer
Offered by Music, Dance and Theatre Arts, 541.463.3108

Transfer Plan

This curriculum is designed for the student who intends to complete requirements for an Associate of Arts Oregon Transfer degree (AAOT) and transfer to a four-year college or university as a major in dance.

To prepare for transfer, students work toward the goal of achieving technical proficiency in dance equivalent to that of a third-year (junior) student, while completing the requirements for an AAOT degree. Though the following transfer plan is a general curriculum guide designed for full-time students, part-time
students may also use it as a guide. Individual technical progress will vary, but it is recommended that a student take a full year of Modern and Ballet at the appropriate level before moving up to a higher level. Dance transfer students are expected to take Modern and Ballet every term. Group requirements vary with degree goals and prospective college.

The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

For planning purposes, it is best to apply for transfer admissions, program admissions and financial aid by January 15th of the desired transfer year. Check with transfer schools for specific application deadlines.

Students who need three years to complete the AAOT may exceed the credit limits set by federal financial aid guidelines, and should work closely with their academic advising team to manage their credit load.

Students interested in pursuing associate's or bachelor's degrees should see a Music, Dance and Theatre Arts advisor as well as dance program director Bonnie Simoa Reid, for information and advice.

Course Requirements
1. Some courses require prerequisites. See each course description.
2. D 251 satisfies the U of O Dance Department requirement for such courses, and also a U of O Arts and Letters distribution requirement.
3. D 256 is offered only Fall term, D 251 and D 260 are offered only Winter term, and D 176 and ED 225 are offered only Spring term.
4. Choose one Social Science or Arts and Letters course that meets the AAOT Cultural Literacy requirement.

Dance
For academically prepared Beginning Dance students
3-years, 141-147 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>D 161 Gyrokinesis</td>
<td>4</td>
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<tr>
<td>D 172 Dancing the Fluid Body</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D 183 Body Mind Stretch and Relaxation</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>WR 121 Composition: Introduction to Academic Writing</td>
<td>3-4</td>
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<tr>
<td>AAOT Social Science requirement</td>
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<tr>
<td>Total Credits</td>
<td>15-16</td>
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</tr>
<tr>
<td>Winter</td>
<td></td>
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</tr>
<tr>
<td>D 177 Modern Dance 1</td>
<td>2</td>
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<tr>
<td>D 185 Ballet 1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Choice of:</td>
<td>2</td>
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</tr>
<tr>
<td>D 169 Musical Theatre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D 173 African Dance</td>
<td></td>
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<tr>
<td>D 175 Tap Dance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D 184 Hip Hop 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D 196 Balinese Dance</td>
<td></td>
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<tr>
<td>Choice of:</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D 153 Pilates Mat Work 1</td>
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<tr>
<td>D 161 Gyrokinesis</td>
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<tr>
<td>D 172 Dancing the Fluid Body</td>
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<tr>
<td>D 183 Body/Mind Stretch and Relaxation</td>
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<td>D 251 Looking at Dance</td>
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<tr>
<td>AAOT Health/Wellness/Fitness</td>
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<tr>
<td>Total Credits</td>
<td>15</td>
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<tr>
<td>Spring</td>
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<td>D 185 Ballet 1</td>
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<tr>
<td>D 257 Dance Improvisation</td>
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<tr>
<td>D 153 Pilates Mat Work 1</td>
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<tr>
<td>D 176 Fluid Yoga</td>
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<tr>
<td>D 183 Body Mind Stretch and Relaxation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D 161 Gyrokinesis</td>
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<tr>
<td>WR 122 Composition: Argument, Style, and Research</td>
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<td></td>
</tr>
<tr>
<td>WR 227 Technical Report Writing</td>
<td></td>
<td></td>
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<tr>
<td>AAOT Oral Communication requirement</td>
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<td>Total Credits</td>
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<tr>
<td>Intermediate</td>
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<tr>
<td>D 178 Modern Dance 2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D 186 Ballet 2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D 160 Dance Composition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>D 188 Jazz Dance 1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D 256 Body Fundamentals/Body as Knowledge</td>
<td>4</td>
<td></td>
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<tr>
<td>AAOT Social Science requirement</td>
<td>3-4</td>
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<td>Total Credits</td>
<td>16-17</td>
<td></td>
</tr>
<tr>
<td>Winter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D 178 Modern Dance 2</td>
<td>2</td>
<td></td>
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<tr>
<td>D 186 Ballet 2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D 188 Jazz Dance 1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D 260 Group Choreography</td>
<td>3</td>
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<tr>
<td>Choice of:</td>
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<tr>
<td>D 161 Gyrokinesis</td>
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<td></td>
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<tr>
<td>D 172 Dancing the Fluid Body</td>
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<td>D 257 Dance Improvisation</td>
<td></td>
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<tr>
<td>MTH 105 Intro to Contemporary Mathematics</td>
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<tr>
<td>Total Credits</td>
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<td>Spring</td>
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<td>D 178 Modern Dance 2</td>
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<tr>
<td>D 186 Ballet 2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>D 261 Rehearsal and Performance</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ED 225 Multiple Intelligence in Motion</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Choice of:</td>
<td>2</td>
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<tr>
<td>D 169 Musical Theatre</td>
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<td></td>
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<tr>
<td>D 173 African Dance</td>
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<tr>
<td>D 175 Tap Dance</td>
<td></td>
<td></td>
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<tr>
<td>D 176 Fluid Yoga</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
• demonstrate knowledge and skills required to perform a variety of clinically supportive treatments
• demonstrate knowledge and skill required to accurately expose, develop and mount diagnostic radiographs
• demonstrate knowledge and skills required for business office procedures
• demonstrate knowledge and skills required to access information via dental journals and web sites

Dental Assisting Transfer

Associate of General Studies Transfer Plan
(includes Dental Assisting One-year Certificate of Completion)

Purpose Preparates graduates for employment in the dental field with emphasis on current concepts and hands-on skills for clinical chairside assisting. Included classes also offer some cross training and pathways to receptionist-bookkeeper.

Learning Outcomes The graduate will:
• demonstrate knowledge and skills needed to compute mixing amounts for impression materials, cements, and disinfecting/sterilizing solutions, as well as calculate plaque indexing and inverse square law formulas
• demonstrate knowledge and ability to write/edit multiple types of professional communications

Gainful Employment Disclosure for 1-year Certificate

Standard Occupational Classification: 31-9091.00

Go to websites below for information about related occupations:
Dental Assistants onetonline.org/link/summary/31-9091.00
Related Occupation:
Surgical Technologists onetonline.org/link/summary/29-2055.00

How much will the 1-year Dental Assisting Certificate and AGS cost? (Estimate based on 2011-12 data. Consult Lane’s website for updated tuition.)
Resident tuition and fees .......................................................... $9,011
Differential Fees † .................................................................. $952
Books ..................................................................................... $1,500
Required Program Costs
(uniforms, National and State Board exams, etc.) ................. $4,402
On-Campus room and board.................................................. Not offered
Total Estimate $15,865

† This is the total of all the differential fees attached to Dental Assisting courses. These fees and other costs may change during the year - see the online credit class schedule for fees assigned to courses.

Additional costs would be incurred for classes outside of the Dental Assisting program needed for the associate degree.

What’s included?
Program Costs: lanecc.edu/esfs/credit-fees-and-expenses

What are financing options to pay for the program?
In addition to any grant and scholarship aid for which they are eligible, 100% of program graduates used loans to finance their education. The median debt for 2010-11 program graduates:
Federal Loans............................................................................. $12,734
No 2010-11 program graduates used private educational loans or institutional financing.

How long will it take to complete this program?
The Dental Assisting program is designed to take 3 terms, or about 12 months of study to complete; the 2-year associate options can be completed in 2-2½ years.

How many 2011-12 Dental Assisting graduates completed within the designed program length?
100% completed within 12 months.

What are my chances of getting a job when I graduate?
Lane County openings - 19 annually
Statewide openings - 210 annually

U.S. Dental Assisting employment is expected to grow by 31% from 2010-2020 (adding an additional 91,600 positions nationally). 91% of 2012 Lane graduates seeking employment in Lane County found it within six months of graduation.

Academic Advising Online
Free online resources are available for ALL majors! On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Wages
Lane County average hourly - $19.59; average annual - $39,558
Oregon average hourly - $18.37; average annual - $38,254
Starting salary in the Eugene/Springfield area ranges from $14-17 hourly or $28,560-34,680 annually.

Program Accreditation
American Dental Association’s Commission on Dental Accreditation, a specialized accrediting board recognized by the U.S. Department of Education. The Commission may be contacted at (312) 440-4653 or 211 East Chicago Avenue, Chicago, Illinois 60611.

Licensing or Other Certification
Students complete three National Board examinations each year administered by the Dental Assisting National Board, and are also eligible to receive all state required credentials, by submitting one clinical board and successfully completing the program.

Admission Information
Contact the Health Professions Department or see lanecc.edu/hp/dental/dental-assisting

For assistance with meeting application or program requirements, contact Counseling and Advising in Building 1 room 103 or E-mail DAProgram@lanecc.edu with your specific questions.

Dental Assisting is a concentrated program that requires good reading and study skills. Students are encouraged to take DA 110 Health Sciences and DA 103 Dental Law and Ethics prior to entry into the program. Evidence of a physical examination (within the previous nine months) must be submitted prior to admission to the program.

Course Requirements
1. To enroll in most DA courses, students must be enrolled in the Dental Assisting program. Exceptions are DA 103 and 110.
2. Some courses have prerequisites. See course descriptions.
3. DA 103 Dentistry, Law and Ethics and DA 110 Health Sciences are offered Online.
4. All DA courses must be taken for a letter grade and passed with a 75% class average.
5. Human Relations, Computer, and Writing courses required as prerequisites for the Certificate program must be completed for a letter grade. Human Relations prerequisites may be selected from the following:
   - CG 144 Introduction to Assertive Behavior
   - CG 203 Human Relations at Work
   - CG 204 Eliminating Self-Defeating Behavior
   - SOC 204 Introduction to Sociology
   - SOC 205 Social Stratification and Social Systems
   - SOC 206 Institutions and Social Change
   - SOC 207 Women and Work
   - SOC 210 Marriage, Family and Intimate Relations
   - SP 218 Interpersonal Communication

Prerequisites for Dental Assisting program within Associate of General Studies degree:

MTH 052 Math for Introductory
Physical Science (or higher) ................................. 4
Human Relations requirement .......................... 3-4
WR 121 Introduction to Academic Writing ............. 3-4
Choice of:................................................................ 3-4
CIS 101 Computer Fundamentals
CS 120 Concepts of Computing: Information Processing

Total Credits 14-16

Students must be admitted to the Dental Assisting program to enroll in the following Dental Assisting courses, with the exceptions of DA 110 Health Sciences and DA 103 Dental Law and Ethics, which students are encouraged to take prior to entry into the certificate program. These classes are offered summer term as well as the following terms. Evidence of a physical examination (within the previous nine months) must be submitted prior to admission to the program.

Choice of:
WR 121 Introduction to Academic Writing ............. 3-4

Fall
DA 107 Dental Health Education 1............................. 1
DA 110 Health Sciences .............................................. 3
DA 115 Dental Anatomy .............................................. 3
DA 192 Dental Materials 1 .......................................... 3
DA 195 Chairside Procedures 2 ............................. 6
DA 210 Dental Radiology ............................................ 4
Total Credits 20

Winter
DA 108 Dental Health Education 2............................. 3
DA 193 Dental Materials 2 .......................................... 3
DA 194 Dental Office Procedures ........................... 3
DA 196 Chairside Procedures 2 ............................. 7
DA 211 Dental Radiology 2 ......................................... 2
Total Credits 18

Spring
DA 102 Advanced Clinical Experiences .............. 3
DA 103 Dentistry, Law and Ethics.......................... 2
DA 206 Co-op Ed Seminar: Dental Assisting ....... 1
DA 280 Co-op Ed: Dental Assisting ..................... 5
Total Credits 14

Transfer Degree or to complete a “Direct Transfer” process. The

Dental Hygiene Transfer
Transfer plan to Oregon Institute of Technology
Offered by Health Professions Division, 541.463.5617

This is a transfer plan for students interested in pursuing a Bachelor’s degree in Dental Hygiene at Oregon Institute of Technology. This plan does not guarantee articulation for OIT program and degree requirements. Students are responsible for contacting the institution directly (oit.edu) to confirm that an individual plan will work when transferring.

Lane Community College offers the prerequisite and degree completion requirements that align for the Associate of Applied Science (AAS) Degree in Dental Hygiene. Students preparing to transfer to OIT will have the option to complete a general education two-year degree like the Associate of Arts Oregon Transfer Degree or to complete a “Direct Transfer” process. The
Outline listed below aligns the AAS and the AAOT program plans to allow a student to more easily transition and progress toward completing the OIT requirements for a Bachelor's Degree in Dental Hygiene.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. OUS institutions will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

See AAOT Degree requirements for courses that can be used to satisfy degree requirements and for limitations on electives. One course must satisfy the Cultural Literacy requirement for the AAOT degree.

OIT requires 9 Humanities credits. However, only 3 Humanities credits can be studio/performance based.

**Associate of Arts Oregon Transfer Degree**

**Transfer Plan for students who want to earn an AAOT at Lane prior to transferring to OIT to pursue a bachelor's degree in Dental Hygiene**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121</td>
<td>Composition: Introduction to Academic Writing...</td>
<td>4</td>
</tr>
<tr>
<td>WR 227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>MTH 111</td>
<td>College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>FN 225</td>
<td>Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>SP 111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Arts and Letters – 3 courses</td>
<td>9-12</td>
<td></td>
</tr>
<tr>
<td>Choice of:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Additional PSY course - one chosen from AAOT list ....... 3

AAOT Social Science course - one chosen from AAOT list, 3

BI 112 Cell Biology for Health Occupations............. 3

CH 112 Chemistry for Health Occupations................. 3

BI 231 Human Anatomy and Physiology 1.................. 4

BI 232 Human Anatomy and Physiology 2.................. 4

BI 233 Human Anatomy and Physiology 3.................. 4

BI 234 Microbiology ........................................ 4

WR 122 Composition: Argument, Style, and Research..... 4

(OIT requirement)

CH 221 General Chemistry 1 (OIT requirement) .......... 5

CH 222 General Chemistry 2 (OIT requirement) .......... 5

CH 223 General Chemistry 3 (OIT requirement) .......... 5

HO 100 Medical Terminology ................................ 3

MTH 243 Introduction to Probability and Statistics... 4

AAOT Electives (enough to bring total credits to 90) .... varies

**Engineering Transfer**

**Offered by Mathematics Division, 541.463.5392**

**Transfer Plan**

This transfer plan is for students interested in pursuing a bachelor's degree in engineering. Lane Community College offers the first two years of college core science, engineering, and general education courses needed for most engineering major disciplines. The transfer plan shown below includes lower division general education requirements needed for a degree at a state university in Oregon. Certain engineering disciplines may require additional courses that are not offered at Lane. See one of Lane’s Engineering advisors for more information.

Most Lane engineering students transfer to Oregon State University (OSU), but many have continued successfully at other well-known professional schools. Students who wish to complete all of the lower division general education requirements for OSU before they transfer may wish to consider earning an Associate of Science (AS) degree or an Associate of Arts Oregon Transfer (AAOT) degree while at Lane. In addition to the OSU general education and engineering core requirements, only a few additional credits are required to earn the AS or AAOT degree from Lane. See Lane’s Engineering academic advisor or counselor for more information.

At the earliest opportunity, an interested student should meet with one of Lane's Engineering advisors. Most engineering courses at Lane are offered only once each academic year, and they must be taken in sequence. A well-planned transfer plan at Lane is essential to ensure a smooth transition to a university. In addition, it is very important for a transfer student to consult the engineering advisor at the specific intended transfer university.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

See the mathematics and science division counselors or advisors for assistance in term-by-term schedule planning and for answers to questions about transfer requirements of various universities.
### Associate of Science (AS) and Associate of Arts Oregon Transfer (AAOT) degree plans for Engineering Transfer students

Students who are prepared to begin Calculus in their first year should substitute MTH 251, 252, and 253 (Calculus 1,2,3) for the mathematics courses listed in the First Year plan below. These students can complete the requirements for either the AS or AAOT degree in two years by adding one or two summer terms to their course plans. Students should consult with Lane’s engineering academic advisor or counselor for assistance in course planning.

#### Course Requirements

1. Prerequisite are required on some courses. See course descriptions.
2. In all CH, ENGR, PH, SP, WR, and MTH 251-265, students must earn a letter grade of "C" or better, not P/NP (OSU will not accept "C-").
3. See AS degree requirements for approved choices for Arts and Letters, Social Science, and Science courses; see Math/Engineering academic advisor for course selection assistance.
4. See AAOT degree requirements for approved Health, Arts and Letters, and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy requirement. See Math/Engineering academic advisor for course selection assistance.
5. All AAOT degree courses must be completed with a minimum grade of C-. There is a minimum 2.0 GPA requirement for graduation.

The following three-year plan for Engineering students satisfies the requirements for an Associate of Science degree or the Associate of Arts Oregon Transfer degree from Lane Community College, including all required engineering courses and all necessary general education courses. Additionally, these general education courses will satisfy all of the lower division general education requirements for graduating from Oregon State University. Requirements can change, so it is critical that you see one of Lane’s engineering advisors for assistance in choosing these specific courses to ensure that they meet both Lane and OSU requirements.

#### Engineering Transfer Plan

##### Associate of Science degree or AAOT degree at Lane

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Letters Requirement (for AS or AAOT)</td>
<td>3-4</td>
</tr>
<tr>
<td>Arts and Letters Requirement (for AS or AAOT)</td>
<td>3-4</td>
</tr>
<tr>
<td>Biological Science Requirement (for A.S. degree) or Arts &amp; Letters requirement</td>
<td>3-4</td>
</tr>
<tr>
<td>for AAOT degree)</td>
<td></td>
</tr>
<tr>
<td>CH 221 General Chemistry 1</td>
<td>5</td>
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<tr>
<td>CH 222 General Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>ENGR 101 Engineering Orientation</td>
<td>3</td>
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<tr>
<td>ENGR 102 Engineering Orientation 2</td>
<td>3</td>
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<tr>
<td>ENGR 115 Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 211 Statics</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 212 Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 213 Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 221 Electrical Fundamentals</td>
<td>4</td>
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<tr>
<td>HE 275 Lifelong Health and Fitness</td>
<td>3</td>
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<tr>
<td>MTH 097 Geometry</td>
<td>3</td>
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<tr>
<td>MTH 110 College Algebra</td>
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<td>MTH 111 College Algebra</td>
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<tr>
<td>MTH 112 Trigonometry</td>
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<tr>
<td>MTH 251 Calculus 1</td>
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<tr>
<td>MTH 253 Calculus 3</td>
<td>5</td>
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<tr>
<td>MTH 254 Vector Calculus 1</td>
<td>4</td>
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<tr>
<td>MTH 255 Vector Calculus 2 (Electrical Engr. Only)</td>
<td>4</td>
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<tr>
<td>MTH 256 Differential Equations</td>
<td>4</td>
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<tr>
<td>MTH 260 or 261 Linear Algebra</td>
<td>2-4</td>
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<tr>
<td>MTH 265 Statistics for Scientists and Engineers</td>
<td>4</td>
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<tr>
<td>PH 211 General Physics w/Calculus</td>
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<td>PH 212 General Physics w/Calculus</td>
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<td>PH 213 General Physics w/Calculus</td>
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<tr>
<td>Social Science requirement (for AS or AAOT)</td>
<td>3-4</td>
</tr>
<tr>
<td>Social Science requirement (for AAOT degree) or Elective (for AS degree)</td>
<td>3-4</td>
</tr>
<tr>
<td>Choice of:</td>
<td>4</td>
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<tr>
<td>SP 111 Fundamentals of Public Speaking</td>
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<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>WR 227 Technical Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

### Ethnic Studies Transfer

**Offered by Social Science Division, 541.463.5427**

**Transfer Plan**

The National Association for Ethnic Studies defines the discipline as “an interdisciplinary voice for the continuing focused study of race and ethnicity.” Ethnic Studies is concerned with how all ethnic and racial groups interact, but focuses primarily on those groups that have been largely ignored as having contributed to the creation and shaping of this country.

Ethnic Studies at Lane Community College was created over 40 years ago. The discipline strives to provide for the interdisciplinary study of the histories and experiences of the four major racial minority groups in the United States: Americans of African and Asian descent, Chicanas/os and Latinas/os, and the indigenous peoples of the Americas, Caribbean, and Pacific Islands. In addition, Ethnic Studies provides space for students to critically analyze the intersections of race and ethnicity with other variables such as gender identity, sexuality, disability, class, nationalism, and globalization. As active scholars, the affiliated faculty members of Ethnic Studies at Lane are dedicated to an academic discipline that assists in the intellectual and humanistic development of students by helping them to combine critical thinking skills with an ability to understand and value difference from a social justice perspective. Because of the skills learned in class, students with a foundation in Ethnic Studies can be found pursuing a wide variety of occupational interests.

For those students interested in pursuing degrees with a focus in Ethnic Studies, there are many courses offered in alternative years from which to choose. All Ethnic Studies course offerings fulfill both the Social Sciences category of the Associate of Arts Oregon Transfer (AAOT) degree, and the AAOT Cultural Literacy graduation requirement. For further information, contact Michael Sámano, Coordinator of Ethnic Studies at 541.463.5186 or samanom@lanecc.edu.

### Academic Advising Online

Free online resources are available for ALL majors!

On lanecc.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

All AAOT degree courses must be completed with a minimum grade of C-. There is a minimum 2.0 GPA requirement for graduation.

Prerequisite are required for some courses. See course descriptions.

ENG 222 and SP 115 are approved courses for the Arts and Letters requirement for the AAOT.

The UO Ethnic Studies Program accepts either Lane’s ES 241/242 course as equivalent to ES 256.

Cooperative Education (Co-op) Ethnic Studies co-op is an important field placement opportunity that allows students to hone their cultural competency skills. Co-op students are encouraged to work with local service agencies that serve underrepresented minority communities, or organizations with a social justice perspective. Placement provides opportunities for students to explore their career options while gaining practical experience in the field. Students may participate on a full- or part-time basis.

Discipline Studies: Social Science
ES 101 Historical Racial and Ethnic Issues
ES 102 Contemporary Racial and Ethnic Issues
Select two same area courses in African American, Asian American, Chicano/Latino, or Native American Studies
ES 221, 222, 223 African American Experience
ES 231, 232, 233 Asian American Experience
ES 211, 212, 213 Chicano/Latino Experience
ES 241, 242, 243 Native American Experience

Discipline Studies: Arts and Letters requirement or electives
ENG 222 Literature and Gender
SP 115 Introduction to Intercultural Communication
Discipline Studies: Social Science requirement or electives
ANTH 103 Cultural Anthropology
ECON 290/ES 290 Chain, Race, and Gender in the U.S. Economy
ES 280 Co-op Ed: Ethnic Studies
HIST 195 History of Vietnam
PS 275 Legal Processes through Civil Rights and Liberties
PS 297 Environmental Politics
REL 243 Nature, Religion and Ecology
SOC 207 Women and Work
SOC 213 Race and Ethnicity
SOC 215 Social Class
SOC 216 Global Social Movements
WS 101 Introduction to Women’s Studies

<table>
<thead>
<tr>
<th>Transfer Plan - AAOT Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>(See AAOT degree requirements in Lane catalog for details)</td>
</tr>
</tbody>
</table>

Students who also complete the following additional requirements (credits) can earn the AAOT Degree. Consult with your program advisor/counselor for details.

WR 121 Introduction to Academic Writing ................. 4
WR 122 Composition: Argument, Style and Research ...... 4
MTH 105 Intro to Contemporary Mathematics or higher ... 4-5
AAOT Health/Wellness/Fitness requirement .................. 3-4
(HIE 255 Global Health and Sustainability recommended)
AAOT Oral Communication requirement .......................... 4
AAOT Arts and Letter requirement .............................. 9-12
AAOT Social Science requirement ............................... 3-4
(select one course other than Ethnic Studies)
AAOT Science(s) with Lab requirement ......................... 12
AAOT Non-Lab Science, Math, Computer Science requirement ........................................ 3-4
AAOT Electives (to bring total transfer credits to 90) ........ Varies

Exercise and Sport Science Transfer
Offered by Health, Physical Education and Athletics
Division, 541.463.5545

Associate of Arts Oregon Transfer (AAOT) Degree Plan

This transfer plan is for Pre-Exercise and Sport Science majors, including Physical Education, Athletic Training and Fitness and Nutrition (not Dietetics) at Oregon State University. Students wishing to pursue a Bachelor of Science in Human Physiology and/or a Master of Science in Athletic Training degree at the University of Oregon should consult with the Lane counselor or advisor for the Human Physiology major.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Prerequisites or placement testing are required for some courses. See Course descriptions.

One Social Science or one Arts and Letters course must meet the AAOT Cultural Literacy Requirement
To ensure that 90 total credits are completed for the AAOT degree, at least one of the Arts and Letters or Social Science electives should be a 4-credit course.
## Health Education

**Offered by Health, Physical Education and Athletics Division, 541.463.5545**

### Transfer Plan

As our world becomes more connected and the use of technology increases, individuals and societies can become negatively impacted. The number of illnesses and deaths from chronic diseases, such as heart disease, cancer, diabetes, and stroke are in part, outcomes of personal health behavior and choices.

In addition, new and emerging infectious diseases are stretching the available resources to combat them. Therefore, the achievement of a attaining and nurturing all areas of health remains a worldwide priority in the twenty-first century. The primary role of a health educator is to act as an “agent of change” to help both individuals and society reach their fullest potential.

The Health Education transfer plan is designed for students who would like to further their career goals in any of the following health areas: Health, Public Health and Social Services, Health Care Administration, Health Promotion, Environmental Health and Occupational Health and related fields. These fields provide career opportunities that include, but are not limited to: Teacher/Educator, Administrator, Researcher, Epidemiologist (person who studies disease), Sanitarian, Occupational Health Specialist, Environmental Toxicologist, and Public Health Specialist.

This is a transfer plan with appropriate electives for students interested in eventually pursuing a four-year degree in Health Education at a university or specialized institution.

**Please note** Prerequisites are required for some courses.

One Arts and Letters or Social Science course must meet the AAOT Cultural Literacy requirement.

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 111 College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>Choice of:</td>
<td>4</td>
</tr>
<tr>
<td>WR 122 Composition: Argument, Style and Research</td>
<td>4</td>
</tr>
<tr>
<td>WR 227 Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>MTH 111 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
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### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Arts and Letters (any choice from AAOT list)</td>
<td>3-4</td>
</tr>
<tr>
<td>PSY 215 Lifespan Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>BI 231 Human Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>MTH 112 Trigonometry</td>
<td>4</td>
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<td>Total Credits</td>
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### Second Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BI 232 Human Anatomy and Physiology 2</td>
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<tr>
<td>PH 201 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>CH 221 General Chemistry 1</td>
<td>5</td>
</tr>
<tr>
<td>Social Science from approved list with Cultural Literacy requirement</td>
<td>3-4</td>
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<td>Total Credits</td>
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### Winter

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<tr>
<td>Choice of:</td>
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<tr>
<td>SP 130 Business and Professional Speech</td>
<td>4</td>
</tr>
<tr>
<td>SP 115 Introduction to Intercultural Communication</td>
<td>5</td>
</tr>
<tr>
<td>CH 222 General Chemistry 2</td>
<td>5</td>
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<tr>
<td>BI 233 Human Anatomy and Physiology 3</td>
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<td>PHL 201 Ethics</td>
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<td>Total Credits</td>
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### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Arts and Letters (from approved list)</td>
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</tr>
<tr>
<td>BI 234 Microbiology</td>
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</tr>
<tr>
<td>CH 223 General Chemistry 3</td>
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### First Year

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<thead>
<tr>
<th>Course</th>
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<tr>
<td>HE 275 Lifetime Health and Fitness</td>
<td>3</td>
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<tr>
<td>HE 252 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>HE 250 Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>HE 222 Consumer Health</td>
<td>3</td>
</tr>
<tr>
<td>HE 152 Drugs Society and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HE 209 Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>17</td>
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### Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HE 125 Workplace Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HE 255 Global Health</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits</td>
<td>19</td>
</tr>
</tbody>
</table>

### Additional courses needed to complete the AAOT degree:

- WR 121 Introduction to Academic Writing                              | 4       |
- Choice of:                                                          | 4       |
- WR 122 Composition: Argument, Style, and Research                    | 4       |
- WR 227 Technical Writing                                            | 4       |
- Choice of:                                                          | 4-5     |
- MTH 105 Introduction to Contemporary Mathematics                   | 4       |
- MTH 111 College Algebra* (or any higher Math course)                | 4       |
- AAOT Oral Communication requirement                                 | 4       |
- AAOT Arts and Letters requirement                                    | 9-12    |
- AAOT Social Science requirement                                     | 12-16   |
- AAOT Science with lab requirement                                   | 12      |
- AAOT non-lab Science, math, computer science requirement             | 3-4     |
- AAOT Electives to bring total to 90 credits                         | 4-15    |

### Health Informatics Transfer

Also see Computer Information Systems - Health Informatics 
AAS in the Career Technical section

**Offered by the Computer Information Technology Department, 541.463.5221**

### Transfer Plan

This transfer plan is for students who want to earn an Associate of Arts Oregon Transfer (AAOT) degree at Lane Community College and complete courses that will be accepted in transfer to the health informatics program at Oregon Institute of Technology. The guide below includes courses required for Oregon Institute of Technology's Bachelor of Science degree in...
Information Technology – Health Informatics Option, as well as necessary general education requirements for an AAOT.

Transfer institutions require additional coursework for a health informatics degree, and may change prerequisites year-to-year. Any student interested in transfer must accept responsibility to work very closely with a Lane academic advisor, and also be aware of changes in prerequisites for programs at potential transfer institutions.

General education courses completed within an AAOT degree satisfy lower division general education requirements for any of Oregon’s public universities and will transfer intact. Courses numbered below 100 generally do not transfer. See a Lane science advisor for assistance in course selection and transfer policies.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

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Prerequisites are required on some courses. See the course descriptions.

See science advisor for AAOT Health and AAOT Science with lab course selections.

One Social Science or Arts and Letters course needs to meet Cultural Diversity Requirement,
For all major requirements, see advisor for other choices.

All courses except AAOT Health/Wellness/Fitness must be completed with a letter grade of a C or higher.

Transfer Plan:

| AAOT Arts and Letters requirement          | 6-8 |
| AAOT Health/Wellness/Fitness               | 3-4 |
| AAOT Science with lab                      | 12  |
| AAOT Social Science requirement            | 3   |
| BA 211 Financial Accounting                | 4   |
| BI 102i Human Biology                      | 4   |
| BT114 MS Excel for Business                |     |
| CIS 140 Operating Environments: Managing Windows | 4 |
| CIS 244 Systems Analysis                   | 4   |
| CS 161C+ Beginning C++ Programming or      |     |
| CS 161J Computer Science 1                 | 4   |
| CS 162C+ Intermediate C++ Programming for Games or | 4 |
| CS 162J Computer Science 2                 | 4   |
| CS 240W Windows Server Administration      | 4   |
| CS 275 Database Program Development        | 4   |
| ECON 201 Introduction to Microeconomics    | 3   |
| ECON 202 Introduction to Macroeconomics    | 3   |
| ET 287 Computer Hardware                   | 4   |
| HO 100 Medical Terminology                 | 3   |
| MTH 111 College Algebra                    | 5   |
| PSY 201 General Psychology                 | 4   |
| SP 111 Public Speaking                     | 4   |
| SP 219 Small Group Discussion              | 4   |
| WR 121 Introduction to Academic Writing    | 4   |
| WR 122 Composition: Style and Argument     | 4   |
| WR 227 Technical Writing                   |     |
| Total Credits                              | 102-105 |

Music Industry Transfer

AAOT Transfer plan

For students pursuing music technology options, the following is a seven-term plan, including the Associate of Arts Oregon Transfer Degree (AAOT), prepares students for transfer to 4-year institutions for a B.S. degree.

Please note Prerequisites are required for some classes. See course descriptions.

Several terms of pre-requisite Math may be necessary, depending on Placement Test results. MTH 105 or MTH 111 is required for transfer.

A placement test in Music, Dance and Theatre Arts Department is required for admission to MUS 111, 114, 127 courses.

See AAOT Degree pages for lists of courses that meet the AAOT Foundational Skills and Discipline Studies requirements.

One Social Science or one Arts and Letters course needs to meet the AAOT Cultural Literacy requirement.

Second year music courses must be taken in the order listed. Since there are so many variables, transfer students are strongly advised to see a counselor for Music, Dance and Theatre Arts, or the Music Advisor in Bldg. 6.

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUP 100 Individual Lessons</td>
<td>MUS 118 Music Technology - MIDI Audio 1</td>
</tr>
<tr>
<td>MUS 101 Music Fundamentals</td>
<td>MUS 131 Group Piano</td>
</tr>
<tr>
<td>MUS 131 Group Piano</td>
<td>MUP 100 Individual Lessons</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>Choice of:</td>
</tr>
<tr>
<td>AAOT Social Science (non-ECON)</td>
<td>WR 122 Composition: Argument Style and Research</td>
</tr>
<tr>
<td>AAOT Arts and Letters (non-music)</td>
<td>WR 227 Technical Writing</td>
</tr>
<tr>
<td>Total Credits</td>
<td>Total Credits</td>
</tr>
<tr>
<td>15-16</td>
<td>15-16</td>
</tr>
</tbody>
</table>
It is very important for each student to work closely with Lane’s Arts advisors and advisors at the transfer school to tailor this curriculum to meet the specific requirements of the desired transfer institution. Most transfer schools require an audition, and some require a separate application to the music major. Students are encouraged to begin their transfer planning immediately.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

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Placement test in Music, Dance and Theatre Arts Department is required for admission to MUS 11, 114, and 127 classes.

Several terms of pre-requisite Math may be necessary, depending on Placement Test results. MTH 105 or MTH 111 is required for transfer.

See AAOT Degree for list of courses that meet Foundational Skills and Discipline Studies requirements.

One Social Science or Arts and Letters course needs to meet the AAOT Cultural Literacy requirement.

All music courses except MUS 261, 262, and 263 must be taken on Placement Test results. MTH 105 or MTH 111 is required for transfer.

When offered, MUS 185 or MUS 186 Techniques of Instrumental/Vocal Performance is co-requisite to Individual Lessons.

First Year Fall
MUS 111 Music Theory 1................................. 4
MUS 114 Sight Reading/Ear Training 1.................. 2
MUS 127 Keyboard Skills 1.............................. 2
Individual Lessons ........................................ 2
WR 121 Composition: Introduction to Academic Writing .................................................. 4
Total Credits 16

Winter
MUS 112 Music Theory 1................................. 4
MUS 115 Sight Reading/Ear Training 2............... 2
MUS 128 Keyboard Skills 2.............................. 2
Individual Lessons ........................................ 2
WR 122 Composition: Argument, Style and Research .... 4
Total Credits 16
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUS 113 Music Theory 1</td>
<td>4</td>
</tr>
<tr>
<td>MUS 116 Sight Reading/Ear Training 1</td>
<td>2</td>
</tr>
<tr>
<td>MUS 129 Keyboard Skills 1</td>
<td>2</td>
</tr>
<tr>
<td>Ensemble (large and/or small)</td>
<td>2</td>
</tr>
<tr>
<td>Individual Lessons</td>
<td>2</td>
</tr>
<tr>
<td>Choice of:</td>
<td>4-5</td>
</tr>
<tr>
<td>MTH 105 Contemporary Mathematics or</td>
<td></td>
</tr>
<tr>
<td>MTH 111 College Algebra</td>
<td></td>
</tr>
<tr>
<td>(MTH 95 or placement test required before</td>
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</tr>
<tr>
<td>MTH 105 or MTH 111)</td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
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**Summer**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>AAOT Science (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Science (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Science (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>Health/Wellness/Fitness requirement</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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**Second Year**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MUS 211 Music Theory 2</td>
<td>3</td>
</tr>
<tr>
<td>MUS 214 Keyboard Skills 2</td>
<td>2</td>
</tr>
<tr>
<td>MUS 261 Music History 1</td>
<td>4</td>
</tr>
<tr>
<td>MUS 224 Sight Reading/Ear Training 2</td>
<td>2</td>
</tr>
<tr>
<td>Ensemble (large and/or small)</td>
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</tr>
<tr>
<td>Individual Lessons</td>
<td>2</td>
</tr>
<tr>
<td>AAOT Social Science</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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**Winter**

<table>
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<tr>
<th>Course</th>
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<td>MUS 212 Music Theory 2</td>
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<td>MUS 215 Keyboard Skills 2</td>
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<tr>
<td>MUS 225 Sight Reading/Ear Training 2</td>
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<td>MUS 262 Music History 2</td>
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<tr>
<td>AAOT Social Science</td>
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<table>
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<tbody>
<tr>
<td>Science (with or without lab)</td>
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<td>Choice of:</td>
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<tr>
<td>SP 100 Basic Communication</td>
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<td>SP111 Fundamentals of Public Speaking</td>
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<tr>
<td>AAOT Social Science</td>
<td>3</td>
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<tr>
<td>AAOT Arts and Letters (non-music, Art History or World Literature)</td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
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### Academic Advising Online

Free online resources are available for ALL majors!  moodle
On lanec.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.

### Peace Studies Transfer

**Offered by Multiple Departments**

**Transfer Plan leading to Associate of Arts Oregon Transfer Degree**

This is a transfer plan related to Peace Studies for students pursuing an Associate of Arts Oregon Transfer at Lane Community College, or for students completing elective courses in peace studies for transfer to a baccalaureate program elsewhere. Peace Studies at Lane Community College are defined in broad terms extending beyond the study of war, recognizing that peace is rooted in social, economic, racial, gender, and environmental justice. For more information about Peace Studies at Lane Community College contact Stan Taylor at 541.463.5820 or taylors@lanecc.edu

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

All AAOT degree courses must be completed with a minimum grade of Pass or C-. There is a minimum 2.0 GPA requirement for graduation.

Prerequisites are required for some courses. See course descriptions.

The following three classes focus on the underlying causes of war and conflict, and on steps toward building peace.

### Discipline Studies: Social Science or electives

- PS 211 Peace and Conflict Global
- PS 212 Peace and Conflict National
- PS 213 Peace and Conflict Local

The following courses focus on social, economic, racial, gender and environmental justice as issues that must be addressed to build lasting peace.

### Discipline Studies: Arts and Letters requirement or electives

- ENG 222 Literature and Gender
- SP 115 Introduction to Intercultural Communication

### Discipline Studies: Social Science requirement or electives

- ANTH 103 Cultural Anthropology
- ECON 250/ES 250 Class, Race, and Gender in the U.S. Economy
- ES 101 Historical Race and Ethnic Issues
- ES 102 Contemporary Race and Ethnic Issues
- HIST 195 History of Vietnam
- PS 275 Legal Processes through Civil Rights and Liberties
- PS 297 Environmental Politics
Peace Studies Transfer - Pre-Chiropractic - Pre-Journalism

TRANSFER PLANS

ments for any of Oregon’s public universities and will transfer general education courses transferred within a completed transfer institutions. Any student interested in transfer must accept responsibility to work very closely with a Lane academic advisor, and also to be aware of changes in prerequisites for programs at potential transfer institutions.

General education courses transferred within a completed AAOT degree satisfy lower division general education requirements for any of Oregon’s public universities and will transfer intact. Courses numbered below 100 generally do not transfer.

See a Lane science advisor for assistance in course selection and transfer policies.

Please note Prerequisites are required on some courses. See course descriptions.

All courses must be taken for a letter grade and earn a grade of a C or higher.

See science advisor for AAOT Foundational Skills and Discipline Studies course selections.

One Social Science or Arts and Letters course needs to meet Cultural Diversity Requirement.

Writing courses are program prerequisites. See advisor for other choices.

Transfer Plan
WR 121 Introduction to Academic Writing .................. 4
WR 122 Composition: Argument, Style and Research .. 4
WR 227 Technical Writing ........................................... 4
MTH 111 College Algebra ........................................... 5
MTH 112 Trigonometry .................................................. 4
AAOT Oral Communication requirement .................. 4
AAOT Health/Wellness/Fitness ................................... 3-4
AAOT Arts and Letters requirement ............................ 6-9
AAOT Social Science requirement ............................. 6-8
PSY 201 and PSY 202 General Psychology ................... 8
CH 221, 222, 223 General Chemistry ......................... 15
CH 241, 242, 243 Organic Chemistry .......................... 15
BI 211, BI 212, Z 213 Principles of Biology .................. 12
PH 201, 202, 203 General Physics ............................... 15

Total Credits 108-114

Pre-Chiropractic

Offered by the Science Division, 541.463.5446

Transfer Plan includes prerequisites for transfer

This transfer plan is for students who want to earn an Associate of Arts Oregon Transfer (AAOT) degree at Lane Community College and complete prerequisite chiropractic courses for transfer to a chiropractic program elsewhere. The guide below includes all pre-chiropractic courses that can be taken at a two-year institution for the professional chiropractic program at University of Western States, as well as necessary general education requirements for an AAOT.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Transfer institutions require additional coursework for a chiropractic degree, and may change prerequisites from year-to-year. Any student interested in transfer must accept responsibility to work very closely with a Lane academic advisor, and also to be aware of changes in prerequisites for programs at potential transfer institutions.

Pre-Journalism

Associate Of Arts Oregon Transfer Degree Plan For Pre-Journalism Majors Entering The University Of Oregon

This curriculum is designed for the student who intends to complete requirements for an Associate of Arts Oregon Transfer (AAOT) degree and transfer to the University of Oregon in pre-Journalism. Detailed information about the AAOT can be found under the Degrees and Certificates section of this catalog.

The curriculum is comprised of general education requirements and the pre-journalism major requirements (known as "block requirements") for the University of Oregon. Completion of the AAOT degree will satisfy all the lower division (freshman and sophomore) general education requirements at University of Oregon and all other four-year public universities in the state of Oregon. Completion of the pre-major block requirements will prepare students to take Journalism classes at the University of Oregon that will allow them entrance to the major in their junior year. See notes for more information on the pre-major block requirements.

Students planning to transfer to a school other than the University of Oregon may benefit from pursuing a direct transfer plan in lieu of the AAOT. It is very important for each student to work closely with Lane’s Arts advisors and advisors at the transfer school to tailor this curriculum to meet the specific requirements of the desired transfer institution. Students are encouraged to begin their transfer planning one year prior to the date of transfer.
Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language. Since requirements at transfer schools may change after the catalog has been printed, students are encouraged to refer to on-line advising resources for Arts and Related Majors.

For planning purposes it is best to apply for transfer admission, program admission and financial aid by January 15th of the desired transfer year. Check specific transfer program for application deadlines.

The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

See AAOT Degree course list for courses that satisfy the Cultural Literacy requirement.

Many students do not place directly into college transfer level writing or math. Consult with an academic advisor or counselor for a review of your placement test results and the appropriate sequence of courses to reach writing and math needed for the AAOT degree. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements. Students needing to take preparatory courses will need to plan for additional credits and/or terms at Lane prior to transfer.

The 56 credit UO pre-Journalism block requirements are listed below:

<table>
<thead>
<tr>
<th>Transfer Plan</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Fall</td>
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<tr>
<td>Total credits</td>
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<tr>
<td>WR 121 Introduction to Academic Writing</td>
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<td>MTH 105 Introduction to Contemporary Math</td>
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<td>UO Block #2</td>
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<table>
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<tr>
<td>Winter</td>
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<td>Total credits</td>
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<td>WR 122 Composition: Argument, Style and Research</td>
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<tr>
<td>AAOT Social Science</td>
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<tr>
<td>AAOT Arts and Letters (ENG prefix)</td>
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<td>UO Journalism Block #2</td>
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<td>Second Year Fall</td>
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<td>ECON 200 Principles of Economics: Intro</td>
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<tr>
<td>AAOT Science with lab</td>
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</tr>
<tr>
<td>Any ENG prefix course</td>
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<tr>
<td>AAOT Elective or Foreign Language as needed</td>
<td>3-5</td>
</tr>
<tr>
<td>Total credits</td>
<td>14-17</td>
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</table>

<table>
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<tr>
<th>Transfer Plan</th>
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<td>Winter</td>
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<tr>
<td>Total credits</td>
<td>17-20</td>
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<tr>
<td>ECON 201 Principles of Economics: Micro</td>
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<tr>
<td>UO Journalism Block #3</td>
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<tr>
<td>AAOT Science with lab</td>
<td>4-5</td>
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<tr>
<td>J 216 or AAOT Arts and Letters (not ENG prefix)</td>
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</tr>
<tr>
<td>AAOT Elective or Foreign Language as needed</td>
<td>3-5</td>
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<td>Spring</td>
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<td>Total credits</td>
<td>14-16</td>
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<tr>
<td>ECON 202 Principles of Economics: Macro</td>
<td>3</td>
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<tr>
<td>UO Block #3</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Science with Lab</td>
<td>4-5</td>
</tr>
<tr>
<td>AAOT Cultural Literacy requirement</td>
<td>3-4</td>
</tr>
<tr>
<td>Pre-Journalism - Pre-Occupational Therapy</td>
<td></td>
</tr>
<tr>
<td>Offered by the Science Division, 541.463.5446</td>
<td></td>
</tr>
<tr>
<td>Transfer Plan includes prerequisites for transfer</td>
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</table>

This transfer plan is for students who want to earn an Associate of Arts Oregon Transfer (AAOT) degree at Lane Community College and complete prerequisite courses for transfer to
an occupational therapy program elsewhere. The guide below includes all pre-occupational therapy courses that can be taken at a two-year institution for the professional occupational therapy program at Pacific University, as well as necessary general education requirements for an AAOT.

**Please note** The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Transfer institutions require additional coursework for an occupational therapy degree, and may change prerequisites from year-to-year. Any student interested in transfer must accept responsibility to work very closely with a Lane academic advisor, and also to be aware of changes in prerequisites for programs at potential transfer institutions.

General education courses transferred within a completed AAOT degree satisfy lower division general education requirements for any of Oregon’s public universities and will transfer intact. Courses numbered below 100 generally do not transfer. See a Lane science advisor for assistance in course selection and transfer policies.

**Please note** Prerequisites are required on some courses. See course descriptions.

All Occupational Therapy prerequisites must be taken for a letter grade of C or higher. Other courses must be taken for a letter grade of C- or higher. See science advisor for details.

See science advisor for course selection for AAOT Foundational Skills and Discipline Studies requirements.

For Social Science requirement, choose from outside PSY – Psychology.

One Social Science or Arts and Letters course needs to meet Cultural Diversity Requirement

Writing, MTH 243, HO 100, and Physics course are transfer program prerequisites. See advisor for other choices.

### Transfer Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>WR 122 Composition: Argument, Style and Research</td>
<td>4</td>
</tr>
<tr>
<td>MTH 097 Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MTH 111 College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>MTH 112 Trigonometry</td>
<td></td>
</tr>
<tr>
<td>MTH 243 Introduction to Probability and Statistics</td>
<td>4</td>
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<tr>
<td>AAOT Oral Communication requirement</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Health/Wellness/Fitness</td>
<td>3-4</td>
</tr>
<tr>
<td>AAOT Arts and Letters requirement</td>
<td>9-12</td>
</tr>
<tr>
<td>AAOT Social Science requirement</td>
<td>3-4</td>
</tr>
<tr>
<td>AAOT Science with lab requirement</td>
<td>8</td>
</tr>
<tr>
<td>PSY 201 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 215 Lifespan Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 239 Introduction to Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HO 100 Medical Terminology</td>
<td>3</td>
</tr>
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<td>PH 201 General Physics</td>
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<td>Electives</td>
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<td>Cooperative Education</td>
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**Total Credits**: 94-99

## Pre-Optometry

**Offered by the Science Division, 541.463.5446**

**Pre-Optometry Transfer Plan includes prerequisites for transfer**

This transfer plan is for students who want to earn an Associate of Arts Oregon Transfer (AAOT) degree at Lane Community College and complete prerequisite courses for transfer to an optometry program elsewhere. The guide below includes all pre-optometry courses that can be taken at a two-year institution for the professional optometry program at Pacific University, as well as the necessary general education requirements for an AAOT.

**Please note** The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Transfer institutions require additional coursework for an optometry degree, and may change prerequisites from year-to-year. Any student interested in transfer must accept responsibility to work very closely with a Lane science advisor, and also to be aware of changes in programs at potential transfer institutions.

General education courses transferred within a completed AAOT degree satisfy lower division general education requirements for any of Oregon’s public universities and will transfer intact. Courses numbered below 100 generally do not transfer. See a Lane science advisor for assistance in course selection and transfer policies.
Please note: Prerequisites are required for some courses. See course descriptions.

All Optometry prerequisites must be taken for a letter grade of C or higher. Other courses must be taken for a letter grade of C- or higher. See science advisor for details.

See science advisor for AAOT Foundational Skills and Discipline Studies course selection.

One Social Science or Arts and Letters course needs to meet Cultural Diversity Requirement

All Biology, Chemistry, Physics, Arts and Letters, Social Science, Writing, MTH 241/251 and MTH 243 are program prerequisites. See advisor for other choices.

Transfer Plan

WR 121 Introduction to Academic Writing .................. 4
WR 227 Composition: Technical Writing .................. 4
MTH 097 Geometry .......................................................... 4
MTH 111 College Algebra .................................................. 5
MTH 112 Trigonometry .................................................... 4
MTH 241 or 251 Elementary Calculus 1 or Calculus 1 .............................................. 4-5
MTH 243 Introduction to Probability and Statistics ........ 4
AAOT Oral Communication requirement .................. 4
AAOT Health/Wellness/Fitness ........................................ 3-4
AAOT Arts and Letters requirement ......................... 9-12
AAOT Social Science requirement .............................. 6-8
PSY 201 General Psychology ......................................... 4
PSY 202 or PSY 203 General Psychology .................. 4
CH 221, 222, 223 General Chemistry ......................... 15
BI 211, 212 Principles of Biology ................................. 8
PH 201, 202, 203 General Physics ................................. 15

Total Credits: 97-104

Pre-Pharmacy

Offered by the Science Division, 541.463.5446

This transfer plan is for students who want to earn an Associate of Arts Oregon Transfer (AAOT) degree at Lane Community College and complete prerequisite courses for transfer to a pharmacy program elsewhere. The guide below includes all pre-pharmacy courses that can be taken at a two-year institution for the professional pharmacy programs at Oregon State University and Pacific University, as well as necessary general education requirements for an AAOT. The transfer plan includes prerequisites for transfer.

Please note: The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Transfer institutions require additional coursework for a pharmacy degree, and may change prerequisites from year-to-year. Any student interested in transfer must accept responsibility to work very closely with a Lane academic advisor, and also to be aware of changes in prerequisites for programs at potential transfer institutions.

General education courses transferred within a completed AAOT degree satisfy lower division general education requirements for any of Oregon’s public universities and will transfer intact. Courses numbered below 100 generally do not transfer. See a Lane science advisor for assistance in course selection and transfer policies.

Prerequisites are required for some courses. See Course Descriptions.

All courses except WR 121 and MTH 097 must be taken for a letter grade and earn a grade of a C or higher.

See science advisor for AAOT Foundational Skills and Discipline Studies course selections.

One Social Science or Arts and Letters course needs to meet Cultural Diversity Requirement.

All courses except writing, geometry, Health/Wellness/Fitness, and PSY 201 are program prerequisites. See advisor for other choices.

Pacific University requires PH 201 only, not PH 202-203.

Transfer Plan

WR 121 Introduction to Academic Writing .................. 4
WR 122 Composition: Argument, Style and Research .... 4
MTH 097 Geometry .......................................................... 4
MTH 111 College Algebra .................................................. 5
MTH 112 Trigonometry .................................................... 4
MTH 241 or 251 Elementary Calculus 1 or Calculus 1 .............................................. 4-5
MTH 243 Introduction to Probability and Statistics ........ 4
SP 218 Interpersonal Communication ......................... 4
AAOT Health/Wellness/Fitness requirement ................ 3-4
AAOT Arts and Letters requirement ......................... 9-12
AAOT Social Science ...................................................... 3-4
AAOT Social Science requirement (not PSY) ............... 3-4
PSY 201 General Psychology ......................................... 4
ECON 200 Principles of Economics: Introduction to Economics .............................................. 3
ECON 201 or 202 Introduction to Microeconomics or Macroeconomics .............................................. 3
CH 221, 222, 223 General Chemistry ......................... 15
CH 241, 242, 243 Organic Chemistry ......................... 15
BI 211, BI 212, Z 213 Principles of Biology ................ 12
PH 201, 202, 203 General Physics ................................. 5-15

Total Credits: 108-125

Pre-Physical Therapy

Offered by the Science Division, 541.463.5446

Transfer Plan includes prerequisites for transfer

This transfer plan is for students who want to earn an Associate of Arts Oregon Transfer (AAOT) degree at Lane Community College and complete prerequisite courses for transfer
to a physical therapy program elsewhere. The guide below includes all pre-physical therapy courses that can be taken at a two-year institution for the professional physical therapy programs at Pacific University, as well as necessary general education requirements for an AAOT.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Transfer institutions require additional coursework for a physical therapy degree, and may change prerequisites from year-to-year. Any student interested in transfer must accept responsibility to work very closely with a Lane academic advisor, and also to be aware of changes in prerequisites for programs at potential transfer institutions.

General education courses transferred within a completed AAOT degree satisfy lower division general education requirements for any of Oregon’s public universities and will transfer intact. Courses numbered below 100 generally do not transfer. See a Lane science advisor for assistance in course selection and transfer policies.

Program prerequisites include MTH 243, as well as all writing, psychology, chemistry and physics courses. See advisor for other choices.

Prerequisites are required for some courses. See course descriptions.

With the exception of MTH 097, all courses must be taken for a letter grade and passed with a “C” or higher.

See science advisor for AAOT Foundational Requirements and Discipline Studies course selection.

One Social Science or Arts and Letters course needs to meet Cultural Diversity Requirement.

For AAOT Social Science requirement choose from outside PSY – Psychology.

<table>
<thead>
<tr>
<th>Transfer Plan</th>
<th>Total Credits</th>
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<tbody>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
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<td>WR 122 Composition: Argument, Style and Research</td>
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<td>MTH 097 Geometry</td>
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<td>MTH 112 Trigonometry</td>
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<td>MTH 243 Introduction to Probability and Statistics</td>
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<tr>
<td>AAOT Arts and Letters requirement</td>
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<tr>
<td>AAOT Social Science</td>
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<td>AAOT Social Science requirement (not PSY)</td>
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<td>PSY 201 General Psychology</td>
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<td>PSY 215 Lifespan Developmental Psychology</td>
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<td>PSY 239 Introduction to Abnormal Psychology</td>
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<td>CH 221, 222, 223 General Chemistry</td>
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<td>BI 211, BI 212, Z 213 Principles of Biology</td>
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<td>PH 201, 202, 203 General Physics</td>
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| Total Credits | 99-104 |

Pre-Physician Assistant

Offered by the Science Division, 541.463.5446

Transfer Plan includes prerequisites for transfer

Associate of Arts Oregon Transfer degree

This transfer plan is for students who want to earn an Associate of Arts Oregon Transfer (AAOT) degree at Lane Community College and complete prerequisite courses for transfer to a physician assistant program elsewhere. The guide below includes all pre-physician assistant courses that can be taken at a two-year institution for the professional physician assistant programs at Oregon Health Sciences University and Pacific University, as well as necessary general education requirements for an AAOT.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Transfer institutions require additional coursework for a physician assistant degree, and may change prerequisites from year-to-year. Any student interested in transfer must accept responsibility to work very closely with a Lane academic advisor, and also to be aware of changes in prerequisites for programs at potential transfer institutions.

Academic Advising Online

Free online resources are available for ALL majors! moodle
On lanec.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
General education courses transferred within a completed AAOT degree satisfy lower division general education requirements for any of Oregon’s public universities and will transfer intact. See a Lane science advisor for assistance in course selection and transfer policies.

Prerequisites are required for some courses. See course descriptions.

All Physician Assistant prerequisites must be taken for a letter grade of C or higher. Other courses must be taken for a letter grade of C- or higher. See science advisor for details.

See science advisor for course selection for AAOT Foundational Skills and Discipline Studies.

One Social Science or Arts and Letters course needs to meet Cultural Diversity Requirement.

All Writing, General Chemistry, MTH 243 and electives are program prerequisites. See advisor for other choices.

BI 211, 212, 213 are OHSU prerequisites only.
CH 241 is a Pacific University prerequisite only.

**Transfer Plan**

<table>
<thead>
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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
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<tr>
<td>AAOT Arts and Letters requirement</td>
<td>9-12</td>
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<tr>
<td>AAOT Social Science requirement</td>
<td>9-12</td>
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<tr>
<td>PSY 201 General Psychology</td>
<td>4</td>
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<tr>
<td>CH 221, 222, 223 General Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>CH 241 Organic Chemistry</td>
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</tr>
<tr>
<td>BI 211, BI 212, Z 213 Principles of Biology</td>
<td>12</td>
</tr>
<tr>
<td>Electives to bring total to 90 credits</td>
<td>10-17</td>
</tr>
</tbody>
</table>

**Total Credits**: 88-102

---

**Pre-Veterinary Medicine**

**Offered by the Science Division, 541.463.5446**

**Transfer Plan includes prerequisites for transfer**

**Associate of Arts Oregon Transfer degree**

This transfer plan is for students who want to earn an Associate of Arts Oregon Transfer (AAOT) degree at Lane Community College and complete prerequisite courses for transfer to a veterinary medicine program elsewhere. The guide below includes all pre-veterinary courses that can be taken at a two-year institution for the professional veterinary medicine programs at Oregon State University, as well as necessary general education requirements for an AAOT.

**Please note** The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Transfer institutions require additional coursework for a veterinary medicine degree, and may change prerequisites from year-to-year. Any student interested in transfer must accept responsibility to work very closely with a Lane academic advisor, and also to be aware of changes in prerequisites for programs at potential transfer institutions.

General education courses transferred within a completed AAOT degree satisfy lower division general education requirements for any of Oregon’s public universities and will transfer intact. Courses numbered below 100 generally do not transfer. See a Lane science advisor for assistance in course selection and transfer policies.

Prerequisites are required for some courses. See course descriptions.

All courses except MTH 097 must be taken for a letter grade and earn a grade of a C- or higher.

See science advisor for course selection for AAOT requirements.

One Social Science or Arts and Letters course needs to meet Cultural Diversity Requirement.

All Arts and Letters, Social Science, Physics, Writing, MTH 241/251, and MTH 243 are program prerequisite. See advisor for other choices.

**Transfer Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAOT Arts and Letters requirement</td>
<td>9-12</td>
</tr>
<tr>
<td>AAOT Health/Wellness/Fitness requirement</td>
<td>3-4</td>
</tr>
<tr>
<td>AAOT Social Science requirement</td>
<td>12-15</td>
</tr>
<tr>
<td>BI 211, BI 212, Z 213 Principles of Biology</td>
<td>12</td>
</tr>
<tr>
<td>CH 221, 222, 223 General Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>CH 241, 242, 243 Organic Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>MTH 097 Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MTH 111 College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>MTH 112 Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MTH 241 or 251 Elementary or Differential Calculus</td>
<td>4-5</td>
</tr>
<tr>
<td>MTH 243 Introduction to Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PH 201, 202, General Physics</td>
<td>4</td>
</tr>
<tr>
<td>SP 111 Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>WR 227 Technical Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits**: 109-117

---

**Psychology Transfer Plan**

**Associate of Arts Oregon Transfer (AAOT) degree (for University of Oregon only)**

This outline is valid for transfer to the University of Oregon only, and is current at the time this catalog was printed. It is subject to change, so be sure to contact your academic advisor.
or program counselor for any updates that may have occurred after this catalog went to print.

For the Cultural Literacy requirement of the AAOT, see the AAOT program guide for courses that meet this requirement.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

You will need enough elective credits to bring your degree total to 90 transfer credits. Consider PSY 280 (co-operative education) to fulfill some electives. Please consult with your academic advisor or program counselor for other suggested electives.

Lab sciences specified by the University of Oregon for psychology majors are 12 credits of Biology, Chemistry, or Physics. Courses need not be in sequence, but must be taken from the same area (e.g., 12 credits/one year of biology OR chemistry OR physics).

One Arts and Letters or Social Science course must satisfy the Cultural Literacy Requirement for the AAOT degree. See description of AAOT degree for a list of courses that satisfy this requirement.

For course recommendations for psychology majors planning to transfer to other universities, contact your academic advisor or program counselor.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Health/Wellness/Fitness</td>
<td>3-4</td>
</tr>
<tr>
<td>AAOT Oral Communication</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Arts and Letters</td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>14-16</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 122 Composition: Argument, Style and Research ......</td>
</tr>
<tr>
<td>AAOT Arts and Letters</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>MTH 111 College Algebra</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAOT Arts and Letters</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>AAOT Non-Lab Science/Math/Computer Science</td>
</tr>
<tr>
<td>AAOT Social Science (not PSY)</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 201 General Psychology .......................................</td>
</tr>
<tr>
<td>AAOT Lab science ..................................................</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 202 General Psychology .......................................</td>
</tr>
<tr>
<td>AAOT Lab science ..................................................</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 203 General Psychology .......................................</td>
</tr>
<tr>
<td>AAOT Lab Science ..................................................</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>Elective to bring total to 90 credits .....................</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>

### Speech and Communication Studies

**Offered by Language, Literature, and Communication Division, 541.463.5419**

**Transfer Plan**

Lane Community College's four core learning outcomes emphasize the critical nature of communication to one's education and success in the workplace. To achieve competence in communication, students need more than a one-course requirement in a Speech and Communication Studies class. This transfer plan also demonstrates to prospective and current employers their enhanced speech and communication skills.

By selecting one of the following tracks students can prepare themselves for careers in law, public relations, communication consulting, business administration, teaching, speechwriting, speech/debate direction, broadcast, counseling, mediation, labor relations, public opinion research, human resources, advertising, educational administration, lobbying, and marketing, to name a few fields.

Courses below are appropriate electives for students interested in optimizing their background in Speech and Communication Studies.

This transfer plan is available in two tracks:

1. **Academic track**—for students interested in pursuing a bachelor's degree or a minor in Speech and Communication Studies.

2. **Occupational track**—for students completing a two-year degree program who are interested in maximizing their proficiency in speech and communication as an enhancement to occupational performance and flexibility.

**Cooperative Education (Co-op)** Students in either the academic or occupational track may elect to complete a one-term internship related to the field of Speech and Communication Studies. This work is completed under the joint supervision of the Cooperative Education program at Lane and a Speech and Communication Studies faculty member. Letters of recommendation...
from the supervising employer and credits earned in practicum can give students a competitive edge when applying for employment. Internships may focus on public relations, advertising, political canvassing, environmental or health education, marketing, or other fields.

**Course Requirements**

Prerequisites are required for some courses. See course descriptions.

One Arts and Letters or Social Science course must meet the AAOT Cultural Literacy requirement.

SP 115 and 220 fulfill the AAOT Cultural Literacy requirement.

In addition to the recommended Speech courses listed in the tracks below, these General Education courses are needed to complete the AAOT degree:

WR 121 Introduction to Academic Writing ....................... 4
Choice of ........................................................................... 4
WR 122 Composition: Argument, Style, and Research
WR 227 Technical Report Writing
Choice of ........................................................................... 4-6
MTH 105 Introduction to Contemporary Mathematics
MTH 111 College Algebra (or any higher Math course)
AAOT Health/Wellness/Fitness requirement ...................... 3
AAOT Science with lab requirement ..................................... 12
AAOT Arts and Letters requirement (not Speech) .............. 3-4
AAOT non-lab Science, math, computer science requirement ..................................................... 3-4
AAOT Social Science requirement ................................. 12-16
AAOT Electives ................................................................. 18-25

**Communication Studies**

**Academic Track**

The transfer plan recommends Foundational Skills Requirements for the AAOT (SP100, 111, 112, 130, 218), ASOT (SP100, 105, 111, 112, 115, 130, 218, 219, 220, 262), or OTM (SP100, 111, 112) along with four elective courses in Speech and Communication Studies.

To complete the transfer plan, select four courses from the remainder of the Speech and Communication Studies curriculum. All of the following are four credits. Two of these courses may also be applied to the AAOT or ASOT Introduction to Disciplines Arts and Letters Requirement, which specifies that a student must choose 12 credits from at least two disciplines.

SP 100 Basic Communication
SP 105 Listening and Critical Thinking
SP 111 Fundamentals of Public Speaking
SP 112 Persuasive Speech
SP 115 Introduction to Intercultural Communication
SP 130 Business and Professional Speech
SP 218 Interpersonal Communication
SP 219 Small Group Discussion
SP 220 Communication, Gender and Culture
SP 221/222/223 Forensics (1-2 credits)
SP 262 Voice and Articulation

**Communication Studies**

**Occupational Track**

The plan recommends three skills-oriented courses that include the following:

SP 105 Listening and Critical Thinking
SP 111 Fundamentals of Public Speaking or
SP 130 Business and Professional Speech
SP 219 Small Group Discussion

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

**Teacher Education Preparation**

Offered by Cooperative Education Department, 541.463.5203

**Transfer Plan**

**Elementary Teacher Preparation**

This information is a guide for students interested in pursuing a career in elementary education.

Nineteen Oregon schools offer teacher education preparation. Admission is selective and based on coursework, experience with children, tests scores, and other application material. Every school has a specific set of recommended and required curriculum that students should follow to increase their chances of being admitted. It is critical that students work closely with a Lane education advisor in selecting the transfer school and designing their educational plan.

A broad liberal arts curriculum including coursework in literature, art, music, child development, history, geography, mathematics (including geometry and algebra), biology and physical science is required of many education programs. In addition, experience working in a classroom setting under the supervision of a certified teacher is beneficial to students considering a teaching career.

Cooperative Education (Co-op) offers Lane students the opportunity to gain classroom experience at the elementary or secondary level. Letters of recommendation from the supervising teacher, your Lane instructors in courses in education, and credits earned through Co-op give students a competitive advantage when applying for admission to four-year education programs and to graduate programs.

Students unsure of whether they want to become teachers may participate in the Foundations of Education seminar while also working in a classroom to help decide if teaching is a good career choice for them.

For information about seminar classes and gaining experience in a classroom, contact: Merrill Watrous, Education Co-op Coordinator, Center 420H, 541.463.5423, watrousm@lanecc.edu

The following list is a sample of classes that many elementary
education programs recommend. It may be a good starting point for students who have not yet identified a specific transfer institution. Completion of these suggested classes can be applied toward the Associate of Arts Oregon Transfer (AAOT) degree.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Consult with Lane’s education advisors for course planning to meet your specific educational goals.

Course Requirements
Prerequisites are required for some courses. See course descriptions.

ANTH 103 also satisfies the AAOT Cultural Literacy requirement.

Biology courses other than BI 101,102,103 may be acceptable at some of the teacher education preparation programs. See Lane education academic advisors or counselors for detailed information.

Suggested Classes for Education majors who plan to complete the AAOT Degree:

Foundational requirements
WR 121 Introduction to Academic Writing
Choice of:
WR 122 Composition: Argument, Style, and Research or WR 227 Technical Writing
MTH 211 Fundamentals of Elementary Mathematics 1
HE 275 Lifetime Health and Fitness
SP 111 Fundamentals of Public Speaking

Arts and Letters
ENG 100 Children’s Literature or ENG 106 Introduction to Literature: Poetry
ART 204 or 205 or 206 History of Western Art
MUS 101 Music Fundamentals

Social Science
HST 201 or 202 or 203 History of the United States1 (two courses)
ANTH 103 Cultural Anthropology
PSY 201 General Psychology

Science with lab
BI 101 or 102 or 103 General Biology (two courses)
CH 104 Introduction to Chemistry 1 or GS 104 or GS 105 or GS 106 Physical Science

Other Science
MTH 212 Fundamentals of Elementary Mathematics 2

Recommended Electives for AAOT Degree
ED 200, 201 Foundations of Education
ED 258 Multicultural Education
ED 280 Cooperative Education
MTH 213 Fundamentals of Elementary Mathematics 3
PHIL 201 Ethics
PS 201 or PS 202 U.S. Government and Politics
SPAN 101, 102, 103 Spanish, First Year

Additional suggested courses for Education majors
ENG 104, 105, 106 Introduction to Literature
G 101 Earth’s Dynamic Interior or G 102 Earth’s Dynamic Surface or G 103 Evolving Earth
GEOG 142 Introduction to Human Geography GS 104,105, 106 Physical Science
PH 101 or 102 or 103 Fundamentals of Physics
Introductory Art and/or Music classes (see AAOT degree for approved courses)

Middle/High School Teacher Preparation
For middle/high school teaching (secondary education), students should major in the subject they plan to teach. Examples of subjects commonly taught are History, Geography, English, Mathematics, Biology and general or specific Science. For more information about middle/high school teaching contact Counseling and Advising and ask to meet with the advisor for your specific major.

Theater Transfer
Offered by Music, Dance and Theatre Arts, 541.463.5209

Associate of Arts Oregon Transfer Degree Plan for Theater Majors

This curriculum is designed for the student who intends to complete requirements for an Associate of Arts Oregon Transfer (AAOT) degree and transfer to a four-year university with a major in Theater. Detailed information about the AAOT can be found under the Degrees and Certificates section of this catalog.

The curriculum is comprised of general education requirements, major requirements and electives. Completion of the AAOT degree will satisfy all the lower division (freshman and sophomore) general education requirements at any four-year public university in the state of Oregon. Completion of the Theater courses listed below will typically satisfy lower division Theater requirements for most schools. Some Theater programs may require additional coursework. Students looking to transfer to private colleges or out-of-state schools may benefit from pursuing a direct transfer plan in lieu of the AAOT.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some students may have
met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

It is very important that students work closely with Lane's Arts advisors and advisors at their transfer school to tailor this curriculum to meet the specific requirements of the desired transfer institution. Some transfer schools require a separate application to the Theater major that also includes an audition. Students are encouraged to begin their transfer planning one year prior to the date of transfer. Since requirements at transfer schools may change after the catalog has been printed, students are encouraged to refer to online advising resources.

Many students do not place directly into college transfer level writing or math. Consult with an academic advisor or counselor for a review of your placement test results and the appropriate sequence of courses to reach writing and math needed for the AAOT degree. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements. Students needing to take preparatory courses will need to plan for additional credits and/or terms at Lane prior to transfer.

For planning purposes, it is best to apply for an audit, program admission, and financial aid by January 15th of the desired transfer year. Check specific transfer program for application deadlines.

One Social Science, Arts and Letters, or Science course must satisfy the AAOT Cultural Literacy requirement. See AAOT degree for courses that satisfy this requirement.

<table>
<thead>
<tr>
<th>Transfer Plan</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Fall</td>
<td>15-16</td>
</tr>
<tr>
<td>WR 121 Introduction to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>Choice of:</td>
<td>4-5</td>
</tr>
<tr>
<td>MTH 105 Introduction to Contemporary Math</td>
<td>4</td>
</tr>
<tr>
<td>MTH 111 College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>TA 141 Acting 1</td>
<td>3</td>
</tr>
<tr>
<td>Theater Production, Theater Writing or Elective</td>
<td>3</td>
</tr>
<tr>
<td>AAOT Health/Wellness/Health Science</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15-16</td>
</tr>
<tr>
<td>Winter</td>
<td>14</td>
</tr>
<tr>
<td>WR 122 Composition: Argument, Style and Research</td>
<td>4</td>
</tr>
<tr>
<td>AAOT Social Science</td>
<td>3</td>
</tr>
<tr>
<td>TA 142 Acting 2</td>
<td>3</td>
</tr>
<tr>
<td>Theater Production, Theater Writing or Elective</td>
<td>3</td>
</tr>
<tr>
<td>AAOT Health/Wellness/Health Science</td>
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</tr>
<tr>
<td>Total Credits</td>
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</tr>
<tr>
<td>Spring</td>
<td>14-15</td>
</tr>
<tr>
<td>AAOT Oral Communication requirement</td>
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</tr>
<tr>
<td>AAOT Social Science</td>
<td>3</td>
</tr>
<tr>
<td>TA 143 Acting 3</td>
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</tr>
<tr>
<td>AAOT Science/Math/Computer Science</td>
<td>3-4</td>
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<tr>
<td>AAOT Health/Wellness/Health Science</td>
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</tr>
<tr>
<td>Total Credits</td>
<td>14-15</td>
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<tr>
<td>Second Year Fall</td>
<td>16-19</td>
</tr>
<tr>
<td>TA 241 Intermediate Acting</td>
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<tr>
<td>Theater Rehearsal and Performance or Elective</td>
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</tr>
<tr>
<td>AAOT Science with lab</td>
<td>4-5</td>
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<tr>
<td>AAOT Social Science</td>
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</tr>
<tr>
<td>AAOT Elective or Foreign Language as needed</td>
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</tr>
<tr>
<td>Total Credits</td>
<td>16-19</td>
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</tbody>
</table>

Women's Studies
Offered by Multiple Departments

Transfer Plan

This is a transfer plan for students interested in women's studies who wish to complete an AAOT degree. However, those not choosing to pursue a degree progression may find this a useful listing as well. Current Women's Studies offerings at Lane fulfill all course requirements in the Arts and Letters and the Social Science categories of the AAOT degree.

Women's Studies is an interdisciplinary field that explores how gender relations structure our lives. Through feminist scholarship and a focus on women, Women's Studies challenges and transforms existing thought and practices across academic boundaries. Women's Studies courses at Lane address the manner in which gender—entangled with issues of race and class—remains a critical lens of analysis in the artistic, literary, religious, political, economic, and interpersonal aspects of society.

There are hundreds of women's studies programs in colleges and universities across the country offering undergraduate minors and majors as well as graduate degrees and graduate certificates including a few programs that offer Ph.D.'s. Because Women's Studies at Lane is an interdisciplinary program, students who take women's studies courses are prepared to enter a variety of fields and address the accompanying gender issues that they will invariably face. Any career objective can benefit from courses taken in women's studies as the field inherently enhances critical thinking skills through cross-disciplinary analyses.

Please note The AAOT degree requires 90 total credits, with specific general education requirements in Foundational Skills and Discipline Studies. AAOT graduates admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities will admit transfer students with an AAOT GPA of 2.0 or better, according to OUS Undergraduate Transfer Admission Requirements.

Students who graduated or received a GED in spring of 1997 or thereafter are required to have a second language for admission.
to public universities in Oregon. Some students may have met this requirement in high school. Consult with an academic advisor or counselor to determine whether or not you need to take college level second language.

Prerequisites are required for some courses. See course descriptions.

See AAOT degree requirements for approved courses for requirements and limitations on electives.

For those interested in going on to obtain a women’s studies degree, minor or certificate, the women’s studies courses at Lane are transferable. For example, the Women’s and Gender Studies program at the University of Oregon allows up to eight credits to transfer for a major or minor in women’s studies. See Patsy Raney, Women’s Studies Instructor, 541.463.5877 or email raneyp@lanecc.edu for further information.

### First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
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<td>WS 101</td>
<td>Introduction to Women’s Studies</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENG 222</td>
<td>Literature and Gender</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or ENG 260</td>
<td>Introduction to Women Writers</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WR 121</td>
<td>Composition: Introduction to Academic Writing</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AAOT degree elective</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Winter</td>
<td>HST 266</td>
<td>U.S. Women’s History (elective)</td>
<td>4</td>
<td></td>
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<tr>
<td></td>
<td>SP 220</td>
<td>Communication, Gender, and Culture</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WR 122</td>
<td>Composition: Argument, Style, and Research</td>
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<tr>
<td></td>
<td>AAOT degree elective</td>
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<tr>
<td></td>
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### Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENG 222</td>
<td>Literature and Gender</td>
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<td>or ENG 260</td>
<td>Introduction to Women Writers</td>
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<td>MTH 105</td>
<td>Intro to Contemporary Mathematics</td>
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<td>AAOT Science (with lab) requirement</td>
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<td>Winter</td>
<td>SOC 207</td>
<td>Women and Work</td>
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<td>AAOT Oral Communication requirement</td>
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<td>Spring</td>
<td>ES 250/ECON 250</td>
<td>Class, Race, and Gender in the U.S. Economy</td>
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<td>SOC 218</td>
<td>Sociology of Gender (elective)</td>
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### Academic Advising Online

Free online resources are available for ALL majors! On lanec.edu, choose the Moodle button. Select Academic Advising, find your specific major, and follow the instructions to Login or select Login as a Guest.
Accounting - Administrative Support

COURSE DESCRIPTIONS

Also see Computers: Software Applications

For information, contact the Business and Computer Information Technology Division, Bldg. 19/Rm. 137, 541.463.5221.

BA 211 Financial Accounting ........................................... 4 credits
Prerequisites: BA 101 and sophomore standing. Students will gain an understanding of the basic terms, the accounting model, and content of financial statements and then focus on understanding and interpreting the information they contain. May be offered online.

BA 213 Managerial Accounting ........................................... 4 credits
Prerequisite: BA 211 and BT 206 or higher. Introduction to tools and techniques for gathering and analyzing accounting information to make management decisions. Topics include cost-volume-profit analysis, manufacturing costs, special decision analysis, budgeting, and responsibility accounting. May be offered online.

BA 280AC Co-op Ed: Accounting ......................................... 3-12 credits
Credit and BT 206 is highly recommended. Interns in this course will gain accounting-related work experience in area businesses and organizations. Students will integrate theory and practice, develop skills and expand career knowledge while earning credit toward a degree. Meet with Business Co-op Coordinator the term before starting your internship if possible.

BT 165 Introduction to the Accounting Cycle ..................... 4 credits
Introduces fundamental principles of double entry accrual accounting for a sole proprietorship. Students will analyze and record transactions, adjustments, and account for payroll transactions, and prepare financial statements for service and merchandising firms. May be offered online.

BT 170 Payroll Records & Accounting ............................... 4 credits
Prerequisite: BT 123 (formerly BT 114), BT 165 and BT 163. Introduces federal and state regulations affecting payroll. Provides a basis in all payroll operations, including accounting entries, and the preparation of payroll tax returns that are required of business. Course will provide a manual practice set and a computerized practice set. May be offered online.

BT 171 Payroll Laws and Regulations .................................. 4 credits
This is an advanced course on complex payroll functions and regulations. Issues such as how the payroll function impacts the accounting, benefits, and human resources department are discussed, as well as more complicated legal issues including benefits taxation, third-party sick pay reporting, and involuntary deductions. Using case studies, students will develop a best practices plan based on examining organizational structures and models, processes, compliance issues, internal controls, methods of service delivery, corporate culture and staffing, and technology. Students will learn how to keep abreast of changes in federal and state payroll legislation and complete year-end payroll tax functions. May be offered online.

BT 221 Budgeting for Managers ........................................ 4 credits
Prerequisite: BT 165 or BA 211. Recommend BT 123 MS EXCEL for Business (formerly BT 114). This course is designed to introduce the purpose and value of budgets, budget development, and budget implementation. Course topics include: the steps of creating a budget, the parts of a budget, gathering needed information for budgets, creating a product budget, planning and budgeting a project, presenting the budget, spending and tracking the budget, use of an HR budget, a small business budget, budgeting and human behavior, and mastering the overall budgeting process. May be offered online.

Note: BT 221 was formerly numbered BA 217. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

BT 272 Tax Concepts & Preparation ................................... 4 credits
Prerequisite: BA 101, BT 206 (or BT 195) and BT 165. Introduces individual and business federal taxation. Students will study tax concepts, planning, rules, procedures, and the implication of taxes on financial decisions. Students will become familiar with the preparation of basic tax forms and schedules. May be offered online. Note: BT 272 was formerly numbered BT 172. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

BT 273 Federal Income Tax 2 ............................................. 4 credits
Pre-requisites: BT 272 (formerly BT 172), BT 206 or BT 195, BT 170 and BA 211. The second course in a two part series that looks in depth at Federal and Oregon income taxation. Completing BT 272 and BT 273 meets the Board of Tax Service Examiners educational requirements to take the Oregon Tax Preparer's Licensing Examination.

BT 276 Automated Accounting Systems ............................. 4 credits
Prerequisites: BA 211, BT 123 (formerly BT 114), and BT 163 (formerly BT 113). The purpose of this course is to provide students with a basic understanding of accounting information systems, including the differences between double-entry bookkeeping and database accounting. They will learn to use information technologies to understand how an accounting information system gathers and transforms data into useful decision-making information. The course will primarily teach students about business processes, accounting internal controls, and capturing accounting data and turning it into useful output. Students will learn automated accounting data management techniques, documentation, and accounting internal controls. Students will create an accounting procedures manual which documents and flowcharts the accounting system. May be offered online. Note: BT 276 was formerly numbered BT 250. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

BT 286 Professional Bookkeeping ...................................... 4 credits
Prerequisites: BT 272, BT 223, BT 163 and BT 221. This course is designed to prepare students for one of two national certifications. (AIPB or NACBP) The course consists of five primary areas of focus and a substantial practice set. The areas of focus and examination include the correcting of accounting errors, adjusting entries, payroll, depreciation and inventory. Students are expected to have experience and knowledge of these accounting areas and can use the course to refresh and supplement existing knowledge in preparation for the exam. The course will include some lecture, review of problems, and test taking strategies. Homework will supplement the meeting schedule. May be offered online. Note: BT 286 was formerly BT 295. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

Acting - See Theatre Arts

Administrative Support

For information, contact the Business and Computer Information Technology Division, Bldg. 19/Rm. 137, 541.463.5221.

BA 280AA Co-op Ed: Administrative Office .......................... 3-12 credits
Completion of BT 206 is highly recommended. In this internship course students will gain administrative support work experience in area businesses and organizations. Students will integrate theory and practice, develop skills and expand career knowledge while earning credit toward a degree. Meet with Business Co-op Coordinator the term before starting your internship if possible.

BT 020 10-Key Calculator ............................................... 1 credit
This course provides students the opportunity for intensive practice on the basic operations of the electronic calculator, solving basic business application problems, and developing speed and accuracy. Only offered online.

BT 108 Business Proofreading and Editing ......................... 4 credits
Review of language skills necessary to succeed in a business career. Practice proofreading and editing business documents. As part of a team and as an individual, the learner will analyze and apply software and reference tools to proofread, edit, and format business documents for mailing. May be offered online. Note: BT 108 was formerly numbered BT 180. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

BT 144 Administrative Procedures .................................... 4 credits
Prerequisite: BT 108 (formerly BT 180), BT 112 (formerly BT 146), BT 120 and WR 121. Recommend the ability to accurately type at least 35 words per minute. Visit lanee.edubusiness/testing/ keyboarding-skills-competency-recommendations for Business Department keyboarding guidelines or contact the instructor for details. This first year course introduces students to a wide variety of office procedures, practices, and skills needed to be efficient and effective in the changing office environment. Students will draw upon related learning in previous courses as they participate in team and individual office skills projects. New career development skills and knowledge will be added through learning activities
and classroom practice and discussion about soft skills, professionalism, and customer service, and through preparation of job search documents. Students will practice formatting and arranging informal reports, correspondence, and other business documentation and will continue the development of keyboarding skills. May be offered online.

**BT 230 Sustainable Paperless Office Practices using Adobe Acrobat**  
4 credits  
Prerequisites: BT 120. Recommend the ability to accurately type approximately 30 words per minute. Visit lanec.edu/business/testing/keyboarding-guidelines or contact the instructor for details. This course will teach the student how to create virtually any document in a PDF format, preserving the exact look and content of the original, and how to unify a wide variety of documents such as spreadsheets, presentation, email, rich media, and more into a single, cohesive PDF Portfolio. Students will be able to create, enhance, and review PDF documents and create fillable forms. Students will learn how to distribute PDF documents reliably and securely by email, the web, intranets, file systems, CDs, and web services. Other topics will include electronic records keeping, ethical and legal matters around electronic data, electronic signatures, and security. It will equip the student to use a high-volume scanner to scan existing documents into an electronic file management system. May be offered online.

**BT 271 Administrative Professional Practicum**  
4 credits  
Prerequisites: BT 228. Recommend the ability to accurately type at least 45 words per minute. Visit lanec.edu/business/testing/keyboarding-guidelines or contact the instructor for details. Students participate in dynamic business simulations that provide experience in working as team members in a professional environment. Includes professional practice in using integrated software skills, applying office procedures, communicating orally and in writing, analyzing information, making decisions, prioritizing, and using time management skills.

**Anthropology**

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

**ANTH 101 Physical Anthropology**  
4 credits  
A comparative cross-cultural explanation of how cultural learning shapes human behavior. Aspects of culture to be examined include patterns of subsistence, social structures, marriage and family, political processes, social control, religious beliefs and practices, and worldview and values. May be offered online.

**ANTH 102 World Archaeology-Honors**  
4 credits  
This course focuses on the rise of social complexity in ancient civilizations such as the Near East, Egypt, India, China, South America, Mesoamerica, and North America. May be offered online.

**ANTH 103 Cultural Anthropology**  
4 credits  
This is an honors class open to any student prepared to complete honors-level coursework. Honors classes delve deeper into course topics and require a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. See lanec.edu/honors for more information. This course traces the transition of human societies from a foraging to an agricultural way of life to a settled farming, and ultimately urban, way of life. The course focuses on the rise of social complexity in ancient civilizations such as the Near East, Egypt, India, China, South America, Mesoamerica, and North America. May be offered online.

**ANTH 227 Prehistory of Mexico**  
3 credits  
First term of a three-term sequence of Anthropology courses which deal with the culture of Americans of Mexican descent. This term, the focus is on the archaeology and cultural anthropology of Mesoamerica. Olmec, Zapotec, Toltec, Mayan, and Aztec cultures are surveyed. This course draws upon a number of different resources: readings, videos, student presentations, and artwork, to obtain as accurate a knowledge and understanding of these cultures as is presently possible.

**ANTH 228 Cultures of Mexico**  
3 credits  
Second term of three-term sequence of Anthropology courses which deal with the culture of Americans of Mexican descent. This term, the focus is on indigenous peoples and cultures of contemporary Mexico. Special emphasis given to contemporary Mayan, Nahuatl, and Zapotec cultures as well as impact of European civilization on these cultures. Course design as described for ANTH227.

**ANTH 229 Chichano Culture**  
3 credits  
This is the third term of a three-term sequence of Anthropology courses which deal with the culture of Americans of Mexican descent. In this term, the focus of the course is on the social and cultural characteristics that define Chicanos as a culturally unique group within American society. Course design as described for ANTH227.

**ANTH 231 American Indian Studies**  
3 credits  
First term of a three-term sequence of Anthropology courses dealing with the native cultures of North America, this one focusing on the people and cultures indigenous to the Northeastern and Southeastern states of America. Ojibwa, Iroquois, Creek, and Natchez cultures are emphasized. All three courses draw on a number of different resources: readings, videos, student presentations, works of art, to obtain an understanding of the history and cultural heritage of contemporary native peoples of America in the north and southeastern states.

**ANTH 232 American Indian Studies**  
3 credits  
Second term of a three-term sequence of Anthropology courses dealing with native cultures of North America, focusing on the people and cultures indigenous to the Central and Southwestern states of America. Kiowa, Mandan, Navaho, and Zuni cultures are emphasized. Course design as described for ANTH 231 and may be taken out of sequence.
ANTH 233 American Indian Studies ................................................. 3 credits
Third term of a three-term sequence of Anthropology courses dealing
with native cultures of North America. This course focuses on the
peoples who have been indigenous to America west of the Rockies: Cal-
ifornia, Pacific Northwest, Plateau, and Great Basin areas. Kwakiatl,
Nez Perce, Shoshone, and Pomo cultures are emphasized. Course
design as described for ANTH231. May be taken out of sequence.

ANTH 280 Co-op Ed: Anthropology ........................................... 2-12 credits
This course provides students anthropology-related work experience
in community organizations. Students will have the opportunity
to integrate theory and practice gained in the classroom with practical
experiences in the professional world. In this course students may
develop skills, explore career options, and network with profession-
als and employers while earning credit toward a degree.

Apprenticeship

For information about course content or other questions, visit boi.state.or.us and lanec.edu/apprenticeship or call 541.463.5843.

APR 101 Trade Skills Fundamentals ............................................. 4 credits
This course provides an introduction into the apprenticeship industry
and the necessary skills required for selection into a specific trade.
Students will explore current trends in Apprenticeship and basic require-
ments to enter individual programs. Students will become familiar with licensing and certification in a chosen trade.
General topics include: industry opportunities and basic concepts in
basic safety, trade vocabulary, trade calculations, hand and power
tool care and use, blueprint reading, rigging, and materials and han-
dling. In addition to basic communication and employability skills.
Note: This class may be taken to satisfy the ET 121 Shop Practices
requirement in the Electronic Technology Program.

APR 101A Trade Skills Fundamentals ......................................... 4 credits
Designed for Oregon state-recognized apprentices employed in a
specific trade. The curriculum is competency-based and modular in
format. This course provides the necessary skills required for a vari-
ety of trade careers. Students will become familiar with licensing and
and certification in a chosen trade. General topics include: employ-
ability skills and an introduction to construction and maintenance skills used in various crafts. Basic concepts in safety, construction
math, hand and power tools, construction drawings, basic rigging,
and materials handling are examined in this course.

APR 105 Residential Wiring ...................................................... 4 credits
Designed for Oregon state-recognized apprentices employed in the
electrical construction industry. In this introductory course, the
student will learn basic electrical concepts and build basic circuits
using physical components of residential electrical systems. The stu-
dent will study and be introduced to electrical trade tools, equipment
and materials.

APR 106 Plumbing Trade Introduction ....................................... 2 credits
This course is designed to familiarize the student with basic plumber-
ing practices and completion of minor repairs. In this beginning
course, basic plumbing concepts and exposure to tools, safety prac-
tices, materials, codes, and plumbing opportunities will be explored.
This course does not require any previous knowledge or skill in
plumbing. For those seeking a career in plumbing, successful class
completion may earn points that are recognized by plumbing Joint
Apprenticeship and Training Committees in the state of Oregon.

APR 115 Carpentry Skill Fundamentals .................................... 3 credits
Designed for Oregon state-recognized apprentices employed in the
carpentry trade. The curriculum is competency-based and modular in
format. This course introduces students to fundamental concepts and
skills required of trades people. Participants will receive training in
employability and communication skills, and an orientation to the
carpentry trade. This course includes introduction to hand and power
tool use, safety, building materials, and blueprint reading.

APR 116 Carpentry Framing Fundamentals ................................... 3 credits
Designed for Oregon state-recognized apprentices employed in the
carpentry trade. The curriculum is competency-based and modular in
format. This course introduces students to math concepts and funda-
mental construction math concepts utilized by professional carpen-
ters. Floor, wall and ceiling framing systems are presented as well.

APR 117 Carpentry Framing and Introduction to Concrete ........ 3 credits
Designed for Oregon state-recognized apprentices employed in the
carpentry trade. The curriculum is competency-based and modular in
format. This course introduces students to framing roofs, windows
and exterior doors, as well as an introduction to concrete.

APR 118 Carpentry Framing and Finishing .................................. 3 credits
Designed for Oregon state-recognized apprentices employed in the
carpentry trade. The curriculum is competency-based and modular in
format. This course introduces students to framing with steel studs,
commercial door installation, and explains how to install and fin-
ish drywall.

APR 119 Carpentry Commercial Plans and Exterior Finish ........ 3 credits
Designed for Oregon state-recognized apprentices employed in the
carpentry trade. The curriculum is competency-based and modular in
format. This course introduces students to framing with steel studs,
commercial door installation, and explains how to install and fin-
ish drywall.

APR 120 Carpentry Interior Finish ............................................. 3 credits
Designed for Oregon state-recognized apprentices employed in the
 carpentry trade. The curriculum is competency-based and modular in
format. This course introduces students to the materials, layout,
and installation procedures for many types of suspended ceilings.
Students will also learn the selection and installation of different trim
types used in finish work, layout and installation of basic stairs, as
well as methods of proper cabinet installation.

APR 130 Electrical Principles .................................................... 5 credits
Designed for Oregon state recognized apprentices employed in a
trade or industry-related occupation. This course is the first term of
the first year of general journeyman inside wire electrician program.
Course content will include safety/electrical, electrical theory, Ohm’s
law, residential wiring, and introduction to the National Electrical
Code.

APR 131 Electrical Principles/Residential Wiring ..................... 5 credits
Designed for Oregon state-recognized apprentices employed in a
trade or industry-related occupation. This course is the second term
of the first year of general journeyman inside wire electrician pro-
gram. Course content will cover basic AC theory, series/parallel
circuits, mathematical formulas, conduit bending, use of test equip-
ment, and applicable references to the National Electrical code.

APR 132 Electrical Residential Wiring Lab ............................... 3 credits
Designed for Oregon state recognized apprentices employed in a
trade or industry-related occupation. This course is the second term
of the second year of general journeyman inside wire electrician pro-
gam which includes technical knowledge of the skills required of an
Inside Wire Electrician. General topics include safety/electrical,
advanced electrical theory, electrical math, AC theory, motors, gener-
ators, and transformer theory, and 3-phase power, and commercial
installations and calculations. All course content will include refer-
cences to applicable NEC Articles.

APR 133 Electrical Generators, Transformers, and Motors 1 ...... 5 credits
Designed for Oregon state recognized apprentices employed in a
trade or industry-related occupation. This course is the second term
of the second year of general journeyman inside wire electrician pro-
gam. General topics include safety/electrical, hazardous locations,
health care facilities, industrial and commercial wiring, and refer-
cences to applicable NEC Articles.

APR 134 Electrical Generators, Transformers, and Motors 2 ........ 5 credits
Designed for Oregon state recognized apprentices employed in a
trade or industry-related occupation. This course is the third term of
the second year of general journeyman inside wire electrician pro-
gam. Course will include hands-on experience in basic wir-
ing of transformers and motors to include identification of motor
component leads. Course activities build on those learned in prior courses and enable students to build their skills before being introduced to process control and automation and motor controls.

APR 140 Electrical Systems Installation Methods .................................................. 4 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course explores construction materials and methods used in the installation of limited electrical systems along with the NEC codes that regulate installation. Students will learn a knowledge base consisting of the basic theory, vocabulary and safety practices common to limited electrical installations.

APR 141 Limited Voltage Electrical Circuits ........................................................... 4 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course explores the basic laws of electrical theory and the safety practices employed in the limited electrical field. Power quality, trade repairs and installations, and blueprint reading will be reviewed along with the NEC codes that regulate the trade. Students learn a knowledge base consisting of the basic theory, vocabulary and safety practices common to limited energy installations.

APR 142 Testing Equipment and Specialized Applications ........................................ 4 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course focuses on switching devices, wire and cable terminations, and advanced testing equipment used in electronic and information technology disciplines. Emphasis is placed on developing troubleshooting skills and interpreting the National Electrical Code as it applies to installations and maintenance of low voltage systems. Students will gain knowledge of the basic theory, vocabulary and safety practices used in hook-up testing, computer applications and specialized test equipment common to the Limited Energy Technician trades.

APR 143 Limited Voltage Cabling ............................................................................. 4 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course explores cable selection buses, network systems and fiber optic communications. An emphasis is placed on connections as used in various video and control systems. Students will gain knowledge of the basic theory, vocabulary and safety practices common to communication and control systems.

APR 144 System Planning and Maintenance .............................................................. 4 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course covers an overview of workplace practices and how to succeed on the job. Course content will include: communication and leadership skills; employee attitudes and safety awareness; personal safety procedures; workplace safety; tools for the job; basic rigging practices; and the wellness of the Millwright.

APR 150 The Millwright and Shop Safety ................................................................. 5 credits
Designed for Oregon state-recognized apprentices employed in the millwright industry. This course provides an overview of workplace practices and how to succeed on the job. Course content will include: communication and leadership skills; employee attitudes and safety awareness; personal safety procedures; workplace safety; tools for the job; basic rigging practices; and the wellness of the Millwright.

APR 151 Millwright Machine Theory and Trade Calculations ..................................... 5 credits
Designed for Oregon state-recognized apprentices employed in the millwright industry. This course provides an overview of workplace practices and how to succeed on the job. Course content will include: communication and leadership skills; employee attitudes and safety awareness; personal safety procedures; workplace safety; tools for the job; basic rigging practices; and the wellness of the Millwright.

APR 152 Millwright: Power Transmissions and Boilers-Steam .................................... 5 credits
Designed for Oregon state-recognized apprentices employed in the millwright industry. Course will provide students with an understanding of mechanical power train functions and what makes a mill operational such as: drives, clutches, brakes, and couplers (their functions, advantages/disadvantages). Students will learn all steam functions and the precautions necessary to be aware of during installations and repairs; the differences in fire tube and water tube systems; and all associated traps, valves, pumps, and reliefs. Discussions will include how they function and what can be serviced by Millwrights and what the requirements are for a steam specialist.

APR 160 Plumbing Skill Fundamentals ...................................................................... 4 credits
Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Students will learn an overview of the plumbing trade and become familiar with employer expectations. General topics include: basic concepts in safety in the workplace, trade vocabulary, trade math-basis offsets, common tools and materials, plumbing drawings, and an introductory overview of the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

APR 161 Plumbing Materials & Fixtures ..................................................................... 4 credits
Designed for Oregon state-registered apprentices employed in the plumbing trade. Introduces student to different types of pipe and fittings used in plumbing applications and reviews applicable safety and code requirements. Students will learn piping system components and the various connection and installation options. Course includes the proper applications of code-approved fixtures and faucets in plumbing installations. Math and science principles in completion of plumbing tasks will be included along with an introduction to tables in the Uniform Plumbing Code.

APR 162 Plumbing Basic Waste Water Systems ....................................................... 2 credits
Designed for Oregon state-registered apprentices employed in the plumbing trade. Students will be introduced to the DWV systems, the characteristics of water, how to select proper water pipe size, and explain the principle of backflow prevention. Hot water heaters will be discussed along with hands-on troubleshooting of electric and gas water heaters. Uniform Plumbing Code compliance will also be discussed with reference to specific articles.

APR 163 Plumbing Calculations & Print Reading ....................................................... 4 credits
Designed for Oregon state-registered apprentices employed in the plumbing trade. Course studies methods for finding angles using the Pythagorean Theorem. Students will interpret and use civil, architectural, structural, mechanical plumbing and electrical drawings when installing plumbing systems. Techniques to create isometric drawings, material takeoffs and approval/issuance will be included. Methods are introduced for attaching and running DWV and water supply piping in relation to structural elements and code requirements.

APR 164 Plumbing Basic Installation 1 ........................................................................ 4 credits
Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Course will include review of proper installation and testing techniques that apply to water heaters. Code requirements will be included for each section.

APR 165 Plumbing Basic Installation 2 ........................................................................ 2 credits
Designed for Oregon state-registered apprentices employed in the plumbing trade. Course includes techniques for installation and testing of water supply piping and basic plumbing fixtures, valves, and faucets. An introduction to the principles of electricity common to plumbing-related electrical applications and review of proper installation and testing techniques and federal guidelines that apply to water heaters will also be discussed. Code requirements will be included for each section.

APR 170 Introduction to Sheet Metal Apprenticeship ............................................... 4 credits
Designed for Oregon state-recognized apprentices employed in the sheet metal trade. The course content will include an introduction to the sheet metal trade, trade terminology, safe working habits, and basic tools and equipment for forming and installing sheet metal air ducting. Students will obtain a basic understanding of duct layout principles.

APR 171 Sheet Metal Basic Layout ............................................................................ 4 credits
Designed for state-recognized apprentices employed in the sheet metal trade. Course is an introduction to basic layout and safety; and shop hand tools required for the course. Students will gain knowledge in sheet metal working drawings and blueprints. General topics include: basic layout, techniques, and modification of duct work and fittings.

APR 172 Sheet Metal/HVAC/R Blueprint Reading ..................................................... 3 credits
Designed for Oregon state-recognized apprentices employed in the HVAC/R or sheet metal trades. The course content includes introduction to specifications, submittals, blueprint reading, drafting
blueprints, scaling existing buildings and drafting architectural components and mechanical systems.

**APR 201 Carpenter Basic Rigging and Practices** 3 credits
Designed for Oregon state-recognized apprentices employed in the carpentry trade. The curriculum is competency-based and modular in format. This course introduces students to the basic equipment and procedures used in rigging. Students will also learn the principles, equipment, and methods used to perform rigging tasks that require making angular measurements and provide extensive coverage of the materials and techniques used in finishing wooden staircases.

**APR 202 Carpenter Concrete Practices** 3 credits
Designed for Oregon state-recognized apprentices employed in the carpentry trade. The curriculum is competency-based and modular in format. This course introduces students to the basics of concrete forming, including forming, rebar, and embedding. Students will also learn procedures and techniques for both deep and shallow foundations, as well as those required for slab-on-grade concrete work.

**APR 203 Carpenter Forms and Tilt-up Panels** 3 credits
Designed for Oregon state-recognized apprentices employed in the carpentry trade. The curriculum is competency-based and modular in format. This course introduces students to the applications and construction methods for various types of forming and forming hardware systems utilized in both vertical and horizontal concrete formwork. Students will also learn the materials and methods utilized in the construction of tilt-up wall panels, including forming, rebar, and embedding. The course will provide an introduction to the principles of tilt-up wall construction and the basics of concrete forming.

**APR 204 Carpenter Advanced Layout and Building Systems** 3 credits
Designed for Oregon state-recognized apprentices employed in the carpentry trade. The curriculum is competency-based and modular in format. This course introduces students to the equipment, layout, and methods used to perform distance measurement and leveling. Students will also learn the principles, equipment, and methods used to perform layout tasks that require making angular measurements and provide extensive coverage of the materials and techniques used in finishing wooden staircases.

**APR 206 Carpenter Equipment and Site Layout** 3 credits
Designed for Oregon state-recognized apprentices employed in the carpentry trade. The curriculum is competency-based and modular in format. This course introduces students to the basics of equipment and site layout, including forming, rebar, and embedding. Students will also learn the principles, equipment, and methods used to perform layout tasks that require making angular measurements and provide extensive coverage of the materials and techniques used in finishing wooden staircases.

**APR 210 HVAC Systems 1** 4 credits
This is the first course of a three term sequence in HVAC theory and application. This first term identifies basic systems common to this industry with emphasis on specialized control systems, including HVAC, boiler, clock and instrumentation. In addition, concepts in geothermal technologies will be explored. This class is designed for students who are interested in HVAC as a career. The course will provide an introduction to the basics of HVAC systems, including heating, ventilation, and air conditioning.

**APR 211 HVAC Systems 2** 4 credits
This is the second course of a three term sequence in HVAC theory and application. Course focuses on the design of HVAC residential and commercial systems. Emphasis will be placed on the"sizing" of HVAC systems for specific applications. In addition, ordering and brazing will be covered, along with techniques of fusion, connection, and plastic. This class is designed for students who are interested in HVAC as a career. The course will provide an introduction to the basics of HVAC systems, including heating, ventilation, and air conditioning.

**APR 212 HVAC Systems 3** 4 credits
This is the third course of a three term sequence in HVAC theory and application. This course covers operational characteristics, service, and maintenance of gas, water, oil, air, vacuum pumps, and compressors. Students will learn how to troubleshoot mechanical problems, pneumatic controls and control valve components and perform heat pump installation. This class is designed for Oregon state-recognized apprentices working in the HVAC/R trade.

**APR 220 Electrical Apprenticeship Code and Exam Preparation** 2-3 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course is designed to instruct students in techniques for interpreting and understanding the National Electrical Code (NEC). Students will participate in practice exams to illustrate the development and layout of the NEC. APR 220 is presented in 2 or 3 credit blocks preparing students for the electrical licensing examination administered by the State of Oregon Building Codes Division.

**APR 225 Electrical Motor Controls** 5 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This is the first term of the third year of the general journeyman inside wire electrician Apprenticeship related training. This course will provide students with an introduction into motor controls, contactor, aux contactors, relays, relay logic, and basic human/machine interface.
Students will practice take-off’s and bid proposals by using various sets of industrial prints to provide cost estimations.

APR 251 Millwright: Pneumatics and Lubrications .................. 5 credits
Designed for Oregon state-recognized apprentices employed in the millwright industry. This course is a comprehensive view of pneumatics where power is derived from the use of a gas, usually air. Topics will include pneumatic applications that require quick response, low and moderate precision, lower power and light to moderate load capacity requirements and the similarities and differences that pneumatics share with hydraulics. An overview of the specific requirements of tubes and lubrication systems will be examined along with the various shapes and construction of bearings; their applications and specifications.

APR 252 Hydraulics for Millwrights ................................. 5 credits
Designed for Oregon state-recognized apprentices employed in the millwright industry. Students will gain an understanding of the functions of today’s hydraulic systems and components, components specification for certain applications, and theory and formulas for verifying these results. Students will perform hands-on review and troubleshooting of components, such as fluids, valves, pumps and motors.

APR 253 Millwright Piping Systems ................................. 5 credits
Designed for Oregon state-recognized apprentices employed in the millwright industry. This course is an overview of piping systems and various types of pipe that contribute to each type of system. Students will learn construction piping systems along with ancillary components and how they differ. The course will also cover schematics for piping systems and methods of clamping, hanging and supporting them. Tube bending and how to make it fit and look good will also be discussed.

APR 260 Plumbing Water Supply Systems ....................... 4 credits
Designed for Oregon state registered apprentices employed the plumbing trade. Course provides applied math concepts that include geometry, instruction on how to size water piping in all applications and treatment of potable water for private and public water systems. Sizing waste and vent piping, installing water heaters, diagnosing gas and electric water heaters will also be explored in this third year course. General topics include: safety in the workplace, trade math, basic offsets, plumbing tools, code definitions, and hands-on troubleshooting with plumbing. This course will also cover an overview of the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

APR 261 Plumbing Piping Sizing and Systems .................... 4 credits
Designed for Oregon state-registered apprentices employed in the plumbing trade. This course introduces the principles and hazards of backflow prevention, reviews different types of vents that can be installed in a drain, waste and vent system, sewage pumps, sump pumps, corrosive waste, and safety issues. In addition, this course covers sizing drain, waste, vent (DWV), and indirect waste piping.

APR 262 Plumbing Advanced Waste Systems ...................... 2 credits
Designed for Oregon state-registered apprentices employed in the plumbing trade. This course will cover sizing and installation of gas piping with additional hands on instruction. Sizing of storm drainage, green plumbing, rain water harvesting, and gray water harvesting will be reviewed. The course will also cover compressed air line installation, sizing and troubleshooting.

APR 263 Plumbing Code and Test Preparation .................... 2-3 credits
Designed for Oregon state-recognized apprentices employed in the plumbing trade. This course is a comprehensive review of the Uniform Plumbing Code and theory of plumbing to prepare students for the Oregon Building Codes Journey level Plumbing exam.

APR 270 Architectural Sheet Metal ................................. 4 credits
Designed for Oregon state-recognized apprentices employed in the sheet metal trade. Students will study architectural sheet metal in the context of today’s industry. The course will include discovery of various types of materials, profiles of roofing panels, water conductors, various types of roof flashings, related trades that are integral with this trade. The philosophy of layout in the field and the application of actual installations, safety equipment and practices applicable to this trade are also discussed.

APR 271 Sheet Metal Building Codes and Installation ........... 4 credits
Designed for Oregon state-recognized apprentices employed in the sheet metal trade. This course is an overview of the mechanical codes as related to the HVAC industry in commercial and residential applications. In addition, installation manuals will be explored as to proper installation and usage of HVAC equipment.

APR 272 Sheet Metal Duct Design ................................. 4 credits
Designed for Oregon state-recognized apprentices employed in the sheet metal trade. The course content will include introduction to duct design, different styles of duct design, and multi-level duct system design. Other topics included in this course are: Heat loss, heat gain calculations, and instruction of use of duct calculators.

APR 273 General Sheet Metal Fabrication ......................... 4 credits
Designed for Oregon state-recognized apprentices employed in the sheet metal trade. This course is the study of the sheet metal trade as it is applied to general-needs metal work. The work studied is that made from the traditional HVAC and architectural scope as studied in previous terms with a broader base of skills to be learned, such as custom decorative and artistic finished products.

APR 274 Sheet Metal Shop Fabrication ............................ 4 credits
Designed for Oregon state-recognized apprentices employed in the sheet metal trade. This course will provide students with an understanding of project planning techniques, principles of efficient shop layout; and knowledge of parallel line, radial line, and triangulation pattern development.

APR 275 Sheet Metal Project Supervision ......................... 4 credits
This course is an introduction to construction management skills as they apply to project supervision. Course content will include human relations and interpersonal skills, safety, problem solving and negotiation techniques, construction documents, estimating and planning, and scheduling and quality control.

Architecture - See Drafting

Art History
For information, contact the Art and Applied Design Department, Bldg. 11/Rm. 101, 541.463.5409.

ART 111 Introduction to Visual Arts ............................... 3 credits
Introduction to the spectrum of art from Paleolithic cave paintings to contemporary works through a combination of slide lectures, discussions, gallery/museums/public art visits, and student projects. This course expands your artistic, cultural, and historical references, as well as informs and enhances your own creative endeavors.

ART 113 History of Photography 1: 1700-1910 ................... 3 credits
Explores photography from its origins in 18th century experiments to developments up to the beginning of the 20th century. Course modules examine the development of specific types of photography and how each type influenced worldviews. Photographs are examined in both cultural and critical terms, allowing students to think critically about photographs as well as their place in society. The course may be taught via distance learning. It requires the student to develop information literacy skills, as well as to improve basic research and writing skills.

ART 200 Graphic Design History ................................. 3 credits
A team-taught interdisciplinary approach to graphic design history and its relationship to traditional art. Students examine the chronology and development of graphic design within a social context, through an exploration of styles, movements, and individual careers. Emphasis is on mid-19th century design to the present. Open to all students and required for graphic design majors.

ART 202 Survey of Western Art ................................. 3 credits
An introduction and examination of works of art that have come to define the Western visual tradition from the 5th century B.C.E. to the 20th century Modern Era. May be offered online.

ART 203 Survey of American Indian Art and Architecture: North and Central America .................. 4 credits
A survey of the artistic traditions of the native cultures from the Arctic to South-Central America. Works and sites are used to explore the various cultures of pre-Columbian America and the continuing traditions of ancestral peoples. Cultures explored will include the Mayan, Aztec, Inuit, and major nations of prehistoric and modern Canada and the United States.

ART 203_H Survey of American Indian Art and Architecture: North and Central America-Honors .......... 4 credits
A survey of the artistic traditions of the native cultures from the Arctic to South-Central America. Works and sites are used to explore the
ART 204 History of Western Art ........................................... 3 credits
Historical survey of the visual arts from the early Christian era through the High Renaissance in Europe. Examines the relationship of art with religion within a social, historical, political and philosophical context, and explores how these connections relate to the present.

ART 205 History of Western Art ........................................... 3 credits
Artistic movements such as the late medieval, renaissance, gothic, and baroque periods. Examines the role of art in emerging and established cultures.

ART 206 History of Western Art ........................................... 3 credits
The development of art and architecture from the ancient to the modern world. Examines the role of art in emerging and established cultures.

ART 207 Arts of India ..................................................... 3 credits
Examines the development of art and architecture from the ancient to the modern world. Examines the role of art in emerging and established cultures.

ART 208 Arts of China ..................................................... 3 credits
Examines the development of art and architecture from the ancient to the modern world. Examines the role of art in emerging and established cultures.

ART 209 Arts of Japan ..................................................... 3 credits
Examines the development of art and architecture from the ancient to the modern world. Examines the role of art in emerging and established cultures.

ART 211 Early Modern Art: 1850-1910 ............................. 3 credits
The relationship of art to religion within a social, historical, political and philosophical context, and explores how these connections relate to the present.

ART 212 Twentieth-Century Art ........................................ 3 credits
Examines the development of art and architecture from the early modern period to the present. Examines the role of art in emerging and established cultures.

ART 213 History of Photography 2: 1910-1950 ............... 3 credits
Examines the development of photography from 1910 to 1950. Examines the role of art in emerging and established cultures.

ART 214 Arts of the United States ..................................... 3 credits
Examines the development of art and architecture from the ancient to the modern world. Examines the role of art in emerging and established cultures.

ART 217 Islamic Art ....................................................... 3 credits
A survey of the art and architecture of Islamic cultures from its beginnings to the modern era. Works and monuments are used to explore the traditions and contexts of Islamic culture worldwide. Major topics include the development of Islamic art and its artistic forms, regional variations of Islamic art, the intermingling of Islamic and non-Islamic cultures, and Islamic decorative traditions.
ART 134 Field Drawing ................................. 4 credits Introduces students to drawing and visual note-taking techniques used for representing natural systems. Most classes will meet at one of the many diverse natural systems in the southern Willamette Valley. Class time consists of a tour and lecture about that day’s site and field drawing with one-on-one discussion and critique with the instructor. All levels of drawing ability are welcome in the course. This course is suitable for students in art, drafting, engineering, the natural sciences, ecology, and landscape design, as well as naturalists and birders. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 6 total credits.

ART 231 Drawing: Intermediate .......................... 3 credits Art 131 or instructor permission by portfolio. Develops basic drawing skills of observation, selection, representation, perception, and hand-eye-mind coordination, with an emphasis on composition and understanding visual form. Examines visual concepts and theory within historical and cultural contexts. This course is recommended before taking any 200 level painting or printmaking course. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 232 Drawing: Perspective ............................ 3 credits Prerequisite: ART 131. Explores principles of perspective drawing and visual problem solving using various media and subjects. It includes a study of interior-exterior space using linear, one-point, two-point, and three-point perspective systems, elliptical graduation, aerial perspective, and atmospheric perspective. Studies will be done in various media. This course is helpful training for prospective students in Graphic Design, Multimedia and Architecture. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 233 Drawing: Figure ................................. 3 credits Prerequisite: ART 131. Explores complex form relationships in value and space through drawing the human figure. It develops understanding of basic anatomical structure, proportion, and foreshortening. Students develop skills in compositional techniques and individual expression, and also examine the portrayal of the figure through a variety of contexts. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 245 Drawing for Media ............................. 4 credits Teaches drawing techniques and practices valuable to a career in media from concept to finished product, the ability to develop and communicate ideas visually and essential skill for media professionals. Students work with materials and learn methods used in concept development, design, and production. Drawing will be integrated into the visualization process through the production of concept sketches, thumbnails, and storyboards.

ART 247 Site Specific Sculpture ........................... 3 credits An introduction to the historic and contemporary trend toward site-specific sculpture making, including low impact green sculpture, temporary work, large-scale public work, urban planning, and installations. Students work through the entire process of creating a site-specific artwork from formulating a concept, planning, budgeting and timeline, construction logistics, installation, and presentation. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 248 Stone Sculpture ................................. 3 credits For the beginning student who desires to learn the art of stone carving. Historical and contemporary stone sculpture is studied as a basis for understanding the medium. Students experience the entire process of creating a stone sculpture: choosing the stone, developing a design, making simple hand-carving tools, mastering the use of power carving tools, finishing and display of the completed work. Regular discussions and critiques of class work is used to further understand technical and formal considerations in the work. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 250 Ceramics: Hand Building ...................... 3 credits Introduces the materials, methods, and techniques of pottery design and construction. Emphasizes hand build on basic slab construction, glaze application, and an understanding of fundamental pottery processes. It also includes the development of basic hand-eye-mind coordination for good form making, an introduction of historical, cultural, and modern trends and ideology. Students should plan on at least one term of this course and/or Ceramics: Wheel Throwing ART 251 before advancing to Ceramics: Intermediate ART 253. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 251 Ceramics: Wheel Throwing ..................... 3 credits An introductory ceramics course designed for the student with no previous pottery training. Emphasis is on basic wheel skills, simple glaze application, and an understanding of the fundamental pottery processes. Also the development of basic hand-eye-mind coordination for good form making, and an introductory exploration of historical, cultural, and modern trends and ideology. Student should plan on at least one term of this course and/or Ceramics: Hand Building ART 250 before advancing to Ceramics: Intermediate ART 253. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 253 Ceramics: Intermediate ........................ 3 credits Prerequisite: ART 250 and ART 251. Enhancement of ceramic wheel-throwing and hand building skills. An introduction to complex thrown and handbuilt forms with attention to good visual resolution, as well as the understanding of glaze formulation, testing, and kiln firing. Students will enhance their pottery decoration techniques, and conduct an in-depth exploration of historical, cultural, and modern trends and ideology in ceramics. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 266 Off-Loom Fibers ................................. 3 credits Traditional and contemporary applications in fiber arts. Provides the opportunity to study non-woven textile processes. The content emphasizes a different focus from term to term, including natural and synthetic dyeing; two- and three-dimensional fiber construction; feltmaking, papermaking, and fabric printing; resist techniques of surface design; and chemical and mechanical techniques to manipulate cloth. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 270 Printmaking, Intaglio ......................... 3 credits A beginning level course in Intaglio Printmaking, including etching, aquatint, drypoints, and engravings. Students explore the techniques involved in intaglio and design and create original edition prints. A variety of metal etching techniques are introduced, as well as the aesthetics and history of printmaking. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 271 Printmaking, Relief ............................ 3 credits A beginning level course in relief printing, including woodcut or linoleum cut. Students explore techniques involved in relief printmaking and design and create original edition prints. A variety of monotype and collage plate techniques are introduced as well as the aesthetics and history of printmaking. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 272 Printmaking, Monotype and Collograph .... 3 credits A beginning level course in monotype and collage plate printmaking. Students explore techniques involved in creating original prints. A variety of printmaking techniques are introduced, as well as the aesthetics and history of printmaking. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 273 Intermediate Intaglio Print .................... 3 credits Prerequisite: ART 270 A course on multiple plate and other color intaglio techniques. This course explores traditional as well as contemporary issues in intaglio printmaking. The class is an in-depth study for students wanting to continue with Intaglio printmaking. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 274 Intermediate Relief Printmaking ............... 3 credits Prerequisite: ART 271. A course in intermediate level printing techniques. It explores traditional as well as contemporary issues in relief printmaking. The class is an in-depth study for students wanting to continue with Relief printmaking. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 275 Silkscreen ........................................ 3 credits Recommend taking Art 131 Introduction to Drawing and Art 116 Basic Design: Color before enrolling in this course. A focus on traditional and experimental techniques using water-based inks, and...
emphasizes both skill development and personal image making. Students explore traditional and contemporary issues in screen-printing, The objective of this course is to provide students with a strong foundation in this medium. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 276 Sculpture: Introduction** ............................................. 3 credits
A beginning course for students without prior training in sculpture. Explores fundamentals of sculptural processes and their aesthetic and theoretical considerations. Emphasizes development of hand-eye coordination skills, understanding space and form, and the techniques of tool usage. Students complete a project in each basic process. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 277 Sculpture: Welding** .................................................. 3 credits
An intermediate-level sculpture class emphasizing the process of metal welding fabrication. This course focuses on the techniques of oxy-acetylene welding, shielded metal arc welding, and gas metal arc welding, as well as the aesthetics of fabricated metal sculpture. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 278 Sculpture: Wood** ................................................... 3 credits
A beginning-level course designed to strengthen and develop the student’s initial capability in sculpture. Specific emphasis is on exploring wood construction and carving techniques, and their application to making sculpture. Recommended prerequisite: ART 276 or ART 117. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 279 Figure Exploration** .................................................. 3 credits
An intermediate-level course in the study of the human form and portraiture. Emphasis is on theory and concepts of shape, form, value, and composition in a variety of media. There are opportunities for students to integrate relieve sculpture, printmaking, and painting. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 280A Co-op Ed: Art and Applied Design** ......................... 3-12 credits
This course offers career-related work experience in community businesses and organizations. Students integrate theory and practice gleaned in the classroom with practical experience in the professional world. Contact the art co-op coordinator before registering. Course content and expected learning proficiencies vary term to term. Course may be repeated.

**ART 281 Painting: Introduction** ............................................. 3 credits
Prerequisite: ART 131, ART 115, and ART 116. A beginning level course in using oil or acrylic media. Emphasis is on basic technical skills of painting, physical properties and manipulation of materials, theories and principles used in professional context. Students gain an understanding of composition and color necessary for immediate painting courses. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 284 Painting: Intermediate** ............................................. 3 credits
Prerequisite: ART 281 and ART 131. An intermediate-level course in oil painting. Course further expands the student’s knowledge of composition and technique. A series of structured exercises are introduced to develop personal expression. Subject matter may emphasize figure or landscape. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 285 Advanced Silkscreen** ............................................. 3 credits
Prerequisite: ART 275. Advanced and contemporary screen-printing techniques and theory. The curriculum builds on basic skills by focusing on the continued and enhanced development of traditional and progressive techniques. Students will study application of water-based inks and fabric dyes, emphasizing the development of both skill and personal image making. This course also introduces applied computer and modern technology in screen-printing. The objective of this course is to provide students with the opportunity to develop and enhance a comprehensive foundation in the medium. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 291 Sculpture: Metal Casting** ......................................... 5 credits
Designed for students with prior sculpture training who desire to learn the method and theory of the lost-wax foundry casting process. Students will gain the experience of using wax as the direct sculptural medium, preparing the sculpture for casting, and the foundry processes of burnout, melting, and pouring. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 293 Sculpture: Figure** ................................................... 3 credits
Intensive study of the human figure in three dimensions using live models. Emphasis on the study and theory of anatomy, proportion, and gesture. Projects are developed from modeled clay over wire armatures and may be completed in fired terra cotta. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 294 Watercolor: Introduction** ................................. 3 credits
Prerequisite: ART 131 recommended. A beginning course for students without training in the watercolor medium. Introduces basic technical methods of painting, the physical properties and manipulation of the materials, visual theory of composition, and color theory. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**ART 295 Watercolor: Intermediate** ................................... 3 credits
An intermediate level course in the technique of transparent watercolor. Students further develop technical skills, personal expression, and understanding of visual theory. Subject matter may emphasize figure or landscapes. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

**AB 132 Beginning Auto Paint** ............................................. 1-12 credits
Theories and principles used in the auto paint industry. Included: fundamentals of surface preparation, spray guns and their use, sanding materials, undercoats, basic application of color coats, and masking.

**AB 133 Beginning Auto Collision** ....................................... 1-12 credits
Theories and principles used in the collision repair industry. Fundamentals of automobile construction; basic auto sheet metal work; minor auto body repair; body alignment; welding equipment and its uses; and basic panel replacement and adjustments.

**AB 134 Paint and Collision** ............................................... 1-6 credits
Theories and principles used in the auto paint and collision industry. Technical information and shop projects to apply and understand auto collision and paint shop work and safety procedures; hand tools; power tools; compressed air supply equipment; restoring corrosion protection; auto collision and paint nomenclature; abbreviations used by technicians and estimators; and estimating auto body and refinishing costs. Major students should enroll in 6 credits per term for three terms. AB 134 consists of a total of 18 credits (330 hours).

**AB 260 Intermediate Auto Painting** ................................... 1-12 credits
Prerequisite: AB 132 Theories and principles used in the auto paint industry. Technical information and shop projects to apply and understand surface preparation, undercoats, intermediate application of color coats, intermediate panel replacement and adjustments, and miscellaneous body shop repairs.

**AB 261 Intermediate Auto Collision** .................................. 1-12 credits
Prerequisite: AB 133 Theories and principles used in the collision repair industry. Technical information and shop projects to apply and understand fundamentals of automobile construction; intermediate auto sheet metal work; minor auto body repair; intermediate body alignment; welding equipment and its uses; intermediate panel replacement and adjustments; and miscellaneous body shop repairs.

**AB 262 Advanced Auto Paint** ............................................. 1-12 credits
Prerequisite: AB 132 And AB 260 Theories and principles used in the auto paint industry. Technical information and shop projects to apply and understand application of two-part urethane primers and epoxies; refinishing materials; advanced application of color coats; advanced masking; choosing and matching paint; painting plastic parts and finishing touches; and custom painting.

**Astronomy - See Physics**

**Audio - See Media Arts**

**Auto Collision and Refinishing**

For information, contact the Advanced Technology Division, Bldg. 12/Rm. 201, 541.463.5380.
AB 263 Advanced Auto Collision .................................1-12 credits
Prerequisite: AB 133 And AB 261 Theories and principles used in the collision repair industry. Technical information and shop projects to apply and understand diagnosis of major collision damage; advanced panel replacements and adjustments; advanced body alignment; analyzing mechanical components; and repairing auto plastics.

AB 280 Co-op Ed: Auto Body and Fender ....................3-12 credits
This course provides students with auto body-related learning in community businesses. Students will have the opportunity to integrate theory and practice gained in the classroom with practical experience in the professional world. Students will develop skills, explore career options and network with professionals and employers while earning credit toward a degree.

**Automotive**

For information, contact the Advanced Technology Division, Blgd. 12/Rm. 201, 541.463.5380.

AM 143 Brakes ..................................................1-8 credits
Braking systems found on passenger cars and light trucks. Design, function, diagnostic and repair procedures, including theory and laboratory experience in brake system fundamentals, brake safety, master cylinders, power-assist units, hydraulic lines and valves, disc brakes, drum brakes, antilock braking systems, parking brakes, and brake electrical and electronic components.

AM 145 Engine Repair ...........................................1-12 credits
Engines found in passenger cars and light trucks. Design, function, diagnostic and repair procedures for cylinder heads, engine blocks and internal parts, lubrication and cooling systems, gaskets and seals, and measurement and machining procedures commonly performed in repair shops.

AM 147 Suspension and Steering ..............................1-6 credits
Design, function, diagnosis, repair and replacement of steering and suspension components used in passenger cars and light trucks including wheel balancing, front-end alignment, and shock absorber service.

AM 149 Manual Drive Trains and Axles ......................1-6 credits
Manual transmissions and transaxles and other drive train components. Included are design, function, diagnosis, service and overhaul procedures for manual transmissions, differentials, clutches, drive shafts and axles. Also covered are four wheel drive and all wheel drive components.

AM 242 Automatic Transmissions/ Transaxles ..........1-12 credits
Prerequisite: AM 145, AM 147 and AM 149. Automatic transmissions and transaxles used in passenger cars and light trucks. Design, function, diagnosis, service and overhaul procedures, principles of hydraulics as applied to automatic transmissions, planetary gear theory and principles, torque converter design and function, and basic electronic controls.

AM 243 Electrical and Electronic Systems ..........1-12 credits
Automotive electrical and electronic systems. Theories and principles used to operate, diagnose, test, and repair systems. Included: basic theories; electric components; wiring and circuit diagrams; automotive batteries; DC motors and the starting systems; charging systems; ignition systems; lighting circuits; conventional analog instrumentation, indicator lights, and wiring devices; electrical accessories; introduction to body computer systems; advance lighting circuits and electronic instrumentation; and chassis electronic control systems.

AM 244 Engine Performance ..................................1-12 credits
Prerequisite: AM 145 And AM 243. Automotive engine systems. Theories and principles used to operate, diagnose, test, and repair systems. Included: engine design and operation; engine cooling and lubrication systems; intake and exhaust systems; introduction to engine tune-up; computers and input sensors; ignition systems; conventional and computer controlled carburetors; electronic fuel injection systems; vehicle emission control systems; scope and gas analysis; and turbo chargers and super chargers.

AM 245 Introduction To Hybrid Electric Vehicles ....4 credits
Prerequisite: AM 242 and AM 243 and AM 244 and AM 246 or 2 years work history in industry. This class will provide a comprehensive system overview of Hybrid Electric Vehicles HEV's. This course is designed to help students gain an understanding of the basic operating principles, maintenance and servicing of HEV's.

AM 246 Heating and Air Conditioning ...................1-4 credits
Automotive heating and air conditioning systems. Theories and principles used to operate, diagnose, test, and repair systems. Includes: temperature and pressures fundamentals; the refrigeration system; system components; compressors and clutches; system servicing, testing, and diagnosing; case and duct systems; retrofit CFC-12 to HFC-134a; system controls; and engine cooling and comfort heating systems.

AM 280 Co-op Ed: Automotive ..............................3-12 credits
This course provides automotive-related work experience in community businesses and organizations. The student will have the opportunity to integrate theory and practice gained in the classroom with practical experience in the professional world. In this course a student may develop skills, explore career options and network with professionals and employers while earning credit toward a degree.

RTEC 100 Basic Career Technical Skills ..........1-6 credits
This course explores the basics for entering technical careers such as mechanics, manufacturing, aviation, electronics, etc. The course includes: safety, math, tools, basic electricity, basic hydraulics, employability skills, rigging, blue prints, and communication. Students may not receive credit for both RTECH 100 and APPR 101.

**Aviation Maintenance**

Also see Flight
For information, contact the Lane Aviation Academy, Airport Road, 541.463.4195.

AV 192 General 101 ..............................................1-6 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Basic physics, aircraft drawings, mechanic privileges and limitations, and materials and processes. Technical information and laboratory projects to apply and understand theories, principles, and concepts.

AV 193 General 102 ..............................................1-6 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Maintenance publications, maintenance forms and records, ground operation and servicing, fluid lines and fittings, cleaning and corrosion control, and airframe and engine inspection. Technical information and laboratory projects to apply and understand theories, principles, and concepts.

AV 194 General 103 ..............................................1-6 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Basic electricity. Technical information and laboratory projects to apply and understand theories, principles, and concepts.

AV 195 General 104 ..............................................1-6 credits
Prerequisite: AV 194. Aircraft and engine electrical systems and components. Technical information and laboratory projects to apply and understand theories, principles, and concepts.

AV 196 General 105 ..............................................1-6 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Aircraft and engine fire protection systems, aircraft and engine instrument systems, and weight and balance. Technical information and laboratory projects to apply and understand theories, principles, and concepts.

AV 279 Airframe ..................................................1-6 credits
Prerequisite: MTH 076 Airframe structures, systems, and components. Technical information and laboratory projects to apply and understand theories, principles, and concepts. AV 279 consists of a total of 24 credits, 576 lecture/lab hours. AV 279 is scheduled in 6 credit sections. Credits are issued on the basis of satisfactory completion of subtopics within each section.

AV 280 Co-op Ed: Aviation Maintenance ...............3-12 credits
This course offers aviation maintenance learning experiences that integrate theory and practice providing opportunities to develop real work experience, explore career options and network with professionals and employers. Students earn college credit, which may apply toward a degree.

AV 281 Powerplant ..............................................1-6 credits
Prerequisite: MTH 076 Powerplant maintenance, systems, and components. Technical information and laboratory projects to apply and understand theories, principles, and concepts. AV 281 consists of 24 credits, 576 lecture/lab hours. AV 281 is scheduled in 6 credits.
sections. Credits are issued on the basis of satisfactory completion of subtopics within each section.

AV 282 Airframe Return to Service...........................................4 credits
Prerequisite: AV 192, AV 193, AV 194, AV 195, AV 196, MTH 076, And MTH 086 Airframe structures, systems, and components. Technical information and practical application of theories, principles, and concepts.

AV 283 Powerplant Return to Service...........................................4 credits
Prerequisite: AV 192, AV 193, AV 194, AV 195, AV 196, MTH 076, And MTH 086 Powerplant systems and components. Technical information and practical application of theories, principles, and concepts.

AV 289 Helicopter Maintenance...........................................4 credits
Technical information and hands-on experience with the following topics: rotary-wing principles of flight, main rotor systems and blades, main transmission, tail rotor system, component sheet and logbook, rotor wing systems, inspections, operational checks, and helicopter components. Students enrolled in Flight Technology with helicopter emphasis may substitute this course for Aircraft Structures and Systems FT 115.

Biology

For information, contact the Science Division, Bldg. 16/Rm. 156, 541.463.5446.

BI 101 General Biology-Ocean Life Foundations.................................4 credits
Students learn basic processes of organisms at the cellular and organism level. Emphasis on how marine organisms demonstrate processes and systems that involve photosynthesis, cell division, genetics, and cell structure. Includes physical ocean properties and their influence on ocean life.

BI 101F General Biology-Survey of Biology...........................................4 credits
Survey course providing an overview of the molecular, genetic and cellular basis of life. Activities: lab, computer activities, lecture, group projects, and discussion. Includes current issues such as genetic testing, cloning, and cancer.

BI 101I General Biology-Botanical Beginnings.................................4 credits
Students learn cellular and organism plant biology. Topics include characteristic traits that distinguish plants from other organisms, plant anatomy, cell structures, chemistry, photosynthesis, respiration, cell division, roles plants play in our lives. Skills: microscopy, extensive lab observations.

BI 101J General Biology-Unseen Life on Earth.................................4 credits
An introduction to the cellular biology of the smallest organisms on earth. These microorganisms are crucial to human health, food supplies and the survival of all life forms. Students explore the diversity and contributions of microbes such as bacteria, fungi, and viruses. Online course with lab activities conducted at home.

BI 101K General Biology: Introduction to Genetics.................................4 credits
This course introduces students to the rapidly evolving and increasingly relevant world of genetics. Topics: cell structure and division, DNA structure, protein synthesis, modern genetic technologies and societal applications and implications. Labs include microscope work, problem solving. May be offered online.

BI 101H General Biology-Honors...........................................4 credits
This is an honors course open to any student prepared to complete honors-level coursework. These exciting honors classes delve deeper into course topics and require a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 90 on the sentence-skills placement test) recommended. See lanec.edu/honors for information. BI 101 topics: atoms, molecules, cellular processes, genetics, protein synthesis, photosynthesis, respiration. All BI 101 courses are equivalent for AAOT; only one can be used to fulfill the transfer requirement for non-science majors. Additional BI 101 courses may be used as electives.

BI 102 General Biology...........................................4 credits
BI 102 topics: homeostasis, feedback loops, and body systems. All BI 102 courses are equivalent for AAOT; only one can be used to fulfill the transfer requirement for non-science majors. Additional BI 102 courses may be used as electives.

BI 102B General Biology-Jungle Biology...........................................4 credits
Students learn physiological systems of plants and animals and their adaptations to tropical environments individually and symbiotically. Students investigate indigenous people’s use of tropical rainforests and evaluate factors influencing human use of these forests.

BI 102C General Biology-Marine Biology...........................................4 credits
Students learn classification, anatomy, physiology, homeostasis and diversity of marine organisms from plankton to sharks. Experiments and field trips explore how various marine organisms use body system adaptations to survive in oceanic habitats along the Oregon coast. Weekend field trips.

BI 102D General Biology-Survey of Biology...........................................4 credits
Survey course providing an overview of structure and function of tissues, organs, and organ systems. Activities: lab, computer activities, lecture, group projects, and discussion. Includes current issues such as diabetes, epidemics.

BI 102E General Biology-Animal Biology...........................................4 credits
Students learn the physiology and function of vertebrates: fish, amphibians, reptiles, birds, mammals. Topics: evolution of unique adaptations, comparative anatomy. Activities: lab, lecture, discussion, computer/Web use. Relevant issues: endangered species, habitat loss, pollution, conservation.

BI 102G General Biology: Genetics and Society...........................................4 credits
Students learn human body systems with an emphasis on genetic inheritance patterns, genetic conditions and the systems they affect. Course integrates current issues in genetics and their impact on ethics and values; labs feature problem solving, critical thinking. May be offered online.

BI 102H General Biology-Forest Biology...........................................4 credits
Students learn the structural and physiological adaptations of Northwest forest inhabitants. Emphasis on nutrition, growth, reproduction, and their place in the forest ecosystems. Community service projects and field trips may be required.

BI 102I General Biology-Human Biology...........................................4 credits
Students learn human body systems, including circulatory, respiratory, urinary, reproductive, nervous, muscular, skeletal, lymphatic, digestive, and endocrine systems. May be offered online.

BI 102J General Biology: Ethnobotany...........................................4 credits
Students learn structures and functions of both plants and human organ systems and interactions between the two with emphasis on how Northwest Indians use plants, now and in the past. Considers American Indian world views, influence of European-origin settlers, and sustainable plant use. Required field trips.

BI 102J H General Biology-Honors...........................................4 credits
BI 102 topics: homeostasis, feedback loops, and body systems. All BI 102 courses are equivalent for AAOT; only one can be used to fulfill the transfer requirement for non-science majors. Additional BI 102 courses may be used as electives.

BI 103 General Biology...........................................4 credits
BI 103 topics: ecology, evolution and the classification and natural history of organisms. All BI 103 courses are equivalent for AAOT; only one can be used to fulfill the transfer requirement for non-science majors. Additional BI 103 courses may be used as electives.

BI 103A General Biology-Birds of Oregon...........................................4 credits
Students learn classification, evolution, ecology, and adaptations with emphasis on Oregon birds and their behaviors. Bird identification is practiced on field trips. Current issues: endangered species, climate change and effects of humans on bird populations.

BI 103B General Biology-Field Biology...........................................4 credits

BI 103D General Biology: Sea Birds and Mammals...........................................4 credits
Students learn unique anatomical and physiological adaptations of marine birds and mammals to understand evolutionary processes and ecological interactions. Students identify and classify marine birds and mammals, and examine human’s role in the sustainability of these magnificent creatures. Includes field trips.

BI 103E General Biology: Survey of Biology...........................................4 credits
Survey course providing an overview of animal and plant diversity, evolution, and ecology. Activities: field trips, lab, lecture, discussion, and group projects. Includes current issues such as human impacts on the natural world.

BI 103F General Biology-Wildflowers of Oregon...........................................4 credits
Students investigate plant diversity, ecological and evolutionary
processes, and conservation efforts with emphasis on learning flower characteristics for plant identification. Students practice describing habitats and identifying plants on local field trips to different ecosystems.

**BI 103G General Biology: Global Ecology**

- **Credits:** 4
- **Prerequisites:** Students learn about different cultures relative to ecological and environmental changes using Oregon as a case study. Emphasis on how the values of American Indians relate to ecological regions and natural environments in Oregon. Activities: field trips, lab, lecture, discussion, and group projects.

**BI 103H General Biology-Mushrooms**

- **Credits:** 4
- **Prerequisites:** Through field, classroom, and laboratory work students identify and develop an understanding of mushroom evolution, structure, function, and place in the ecology of the areas we study. Required Saturday or Sunday trips to the Cascades and Central Oregon Coast.

**BI 103J General Biology: Forest Ecology**

- **Credits:** 4
- **Prerequisites:** Students learn ecological and evolutionary processes and interrelationships in our local forest ecosystems. Students practice identification of major trees, shrubs and wildlife through extensive field work. Explores importance of forests to humans. Required field trips.

**BI 103K General Bio-Animal Behavior**

- **Credits:** 4
- **Prerequisites:** Students learn about animal behavior with emphasis on the development, evolution, physiology and ecology of behaviors like foraging, migration, communication, mating strategies, parental care, and sociality. Activities: discussions, labs, and field trips.

**BI 103L General Biology: Evolution & Diversity**

- **Credits:** 4
- **Prerequisites:** Students learn evolutionary theory, speciation, molecular inheritance, adaptive radiation, Earth history, and origin of life. Explores diversity of life forms and advances in medical and agricultural sciences. Activities: lecture, lab, discussion, and group projects. May be offered online.

**BI 103M General Biology: Biodiversity&Sustainability**

- **Credits:** 4
- **Prerequisites:** Students use biological principles of evolution, taxonomy and ecology to learn the principles of sustainability, with reference to social and economic issues. This course is unique in placing humans within the taxonomic realm of living organisms affected by environmental issues.

**BI 112 Cell Biology for Health Occupations**

- **Credits:** 4
- **Corequisite:** CH 112 Introduction to human cell structure, function, respiration and division. Includes genetic concepts of DNA replication, protein synthesis, genes and inheritance. Laboratory skills: use of microscopes, identification of cell structures. With CH 112, prerequisite for Anatomy and Physiology BI 231.

**BI 211 Principles of Biology**

- **Credits:** 4
- **Prerequisites:** BI 211 with grade of ‘C-’ or better or BI 101F or BI 112 with grade of ‘A-’ or better or instructor consent. College-level writing strongly encouraged. Designed for Life Science major transfer students. Topics: cell structures and evolution, membranes, biochemical pathways, bioinformatics, and molecular genetics. Skills: microscopy, modeling, scientific paper analysis, experimental design.

**BI 212 Principles of Biology**

- **Credits:** 4
- **Prerequisites:** BI 211 with grade of ‘C-’ or better or BI 101F or BI 112 with grade of ‘A-’ or better or instructor consent. College-level writing strongly encouraged. Designed for Life Science major transfer students. Topics: comparative anatomy and physiology, multicellular evolution, and diversity of Plants and Animals. Skills: experimental design, data management, descriptive statistics and cladogram construction.

**BI 280 Co-op Ed: Biology**

- **Credits:** 3-12
- **Prerequisites:** This internship course offers a work experience that integrates theory and practice in the field of biology. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit.

**BOT 213 Principles of Botany**

- **Credits:** 4
- **Prerequisites:** Grade of ‘C-’ or better in BI 211 and BI 212 or instructor consent. Course content for Life Science majors. Topics: evolutionary trends of flowering plants, diagnostic characteristics of plant families, species distribution and community ecology interactions. Skills: explain phylogenetic relationship between plant groups, describe plant associations and species interaction in a variety of ecosystems, proficient use of botanical keys; ecological research that includes data documentation and analysis.

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**Botany - See Biology**

**Broadcasting - See Media Arts**

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**Business**

**Also see Accounting, Administrative Support, Computers**

For information, contact the Business and Computer Information Technology Division, Bldg. 19/Rm. 137, 541.463.5221.

**BA 101 Introduction to Business**

- **Credits:** 4
- **Prerequisites:** This is a survey course covering basic concepts and language of business, including the American economic system, business ethics and social responsibility, international business, the role of technology and the Internet; organizational structures including the role of groups and teams and organizational culture; forms of business ownership including entrepreneurship and franchising; and the functional areas of business including management, marketing, accounting and finance, human resource management; and the legal environment. Students will participate in a team project to conduct a case study analysis of a local business and present their findings in a report. May be offered online.

**BA 206 Management Fundamentals**

- **Credits:** 3
- **Prerequisites:** BA 101. This course is a survey of management and what makes a successful manager. Content includes planning, decision making, organizing, leadership, motivation, communication, control, and a thorough overview of the field of management. The course covers the opportunities and challenges posed by a multi-cultural work force and the responsibilities of management in handling and motivating employees in the current business environment. Students should gain skills that can be immediately utilized to effectively work with and manage people. May be offered online. **NOTE:** This course may be an acceptable substitution for BT 245 Office Management which is no longer offered. Please see the Business Academic Advisor for options.

**BA 214 Business Communications**

- **Credits:** 4
- **Prerequisites:** BT 108 (formerly BT 180) and WR 121. Introduction to communication theory and all forms of communication. Introduction to business presentations with emphasis on the development of oral and written communication skills. May be offered online.

**BA 215 Accounting: Language of Business Decisions**

- **Credits:** 4
- **Prerequisites:** BA 101 or instructor. Accounting: Language of Business Decisions is a survey of financial and managerial accounting topics. The course is designed for non-business majors (business minors) who may find themselves in entrepreneurial or executive leadership roles within an organization. Topics include overview of the accounting cycle; accounting principles; creation, review and interpretation of financial statements; using financial data for business decisions; cost behaviors; cost-volume profit analysis; and differential analysis. Because of the overlap between BA 211 and BA 215 only one of these courses will be counted toward a degree or certificate. May be offered online.

**BA 223 Marketing**

- **Credits:** 4
- **Prerequisites:** BA 101. As an initial study of the principles of marketing in our socio-economic system, this course stresses the important role marketing plays not only in businesses but also in our everyday lives. Emphasis is placed on analysis of marketing strategies necessary to
develop and market as well as provide ways of handling product and service development, distribution, promotion, and pricing. Additional emphasis is placed on how managers should make marketing decisions which best create customer value. The course is designed for both business majors and non-majors. May be offered online.

BA 224 Human Resource Management......................... 3 credits Prerequisites: BA 101. This course is an introduction to Human Resource Management. The course is designed to explore the functions, roles, and value of Human Resources. Discussion topics include human resource planning, recruitment and selection; employee laws; performance appraisal systems; employee training and development; pay systems; employee benefits, safety, and health; and labor unions. May be offered online. NOTE: This course may be an acceptable substitution for BT 245 Office Management which is no longer offered. Please see the Business Academic Advisor for options.

BA 226 Business Law.................................................... 4 credits This class provides an overview of US business law, describes how each of the areas covered impact business, and examines various cases that relate to each area. It also covers the US Constitution, its origination, its role in determining law today, how it impacts business and how changes are made. This course will also cover a review of current legal topics that are impacting business today and the differences between Federal laws and some State of Oregon Laws and which ones take precedence. May be offered online.

BA 238 Sales ........................................................... 3 credits Prerequisite: BA 101 A beginning class in the basic techniques of selling. Course content includes: prospecting, pre-approach, presentation, demonstration, objections and closing. Selling as a career is thoroughly explored. Some emphasis will be placed on selling in the retail environment. The course is specifically designed to look at the marketing and psychology of relationship selling.

BA 247 Nonprofit and Government Accounting.................. 4 credits Prerequisite: : BT 123, BT 163, BT 272, and BA 211 Develops the conceptual foundation underlying the financial management of governmental and nonprofit entities. Topics include fund accounting, regulatory and compliance issues, budgetary and expenditure controls, basics of auditing, internal controls, and accounting for different funds.

BA 249 Retailing ......................................................... 4 credits Prerequisites: BA 223. Retailing examines types of retail stores, merchandising, operations, store location and layout, internal organization, buying, customer relations, inventory control, and retail communications in the evolving global, high tech, retail to e-tail business environment. Students will focus on real-world examples and work on a broad spectrum of issues through Internet, team, and classroom activities. May be offered online.

BA 250 Small Business Management.............................. 4 credits Prerequisites: BT 123 (formerly BT 114), BA 223, and BT 221 (formerly BA217). This course is a survey class exploring the many factors involved in successfully starting and running a small business. The range of subjects include start up concerns, entity selection, funding sources, choosing a location, marketing, advertising, insurance, pricing, legal aspects, compliance requirements, budgeting, and business plans. May be offered online.

BA 251 Supervisory Management .................................. 3 credits This course focuses on the role and responsibilities of the first-line supervisor or manager including analyzing business, dealing with change, staffing and scheduling, leadership, decision-making, and motivational skills, and managing teams. Covers the principles and practices of the supervisory role in management including the interpersonal and administrative soft skills, and the technical and personal challenges. This course embraces a case-study approach focusing on the supervisory role and the skills needed to be effective. May be offered online.

BA 261 Consumer Behavior ......................................... 4 credits Consumer behavior is one of the major areas in the study of marketing. Everyday, all around us, the use of various media to inform, persuade, and influence our purchase decisions competes with other stimuli for our attention—and our hard earned money! In studying consumer behavior, you will learn how marketers identify and target these sources of influence—from learning about the ways we process information and think how our relationships with others, even our dreams and aspirations, help shape our product choices and purchase decisions. May be offered online. Offered through Clackamas Community College. A host-provider fee may apply.

BA 278 Leadership & Team Dynamics............................. 4 credits This course focuses on developing the leadership potential and ability of emerging and future student leaders. The course also enhances the emerging leader’s understanding of teams and thus increases their effectiveness as team members. Participants will explore personal leadership philosophies, ethical issues related to leadership, strategies for identifying and articulating visions, and ways to empower effective teams. Students will gain a theory-based understanding of leadership topics and will work on practical leadership applications such as goal setting, evaluation and decision-making. Recommended for second year students. May be offered online with two required on-campus meetings.

BA 280 Co-op Ed: Business Management.......................... 3-12 credits In this internship course students will gain work experience in area businesses related to supervision, management, and business operations. Students will integrate theory and practice, develop skills, and expand career knowledge while earning credit toward a degree. Meet with Business Co-op Coordinator the term before starting your internship if possible.

BA 280RM Co-op Ed: Retail Management.......................... 3-12 credits Completion of BT 206 is highly recommended. In this internship course students will gain work experience in area retail businesses. Students will integrate theory and practice, develop skills and expand career knowledge while earning credit toward a degree. Meet with Business Co-op Coordinator the term before starting your internship if possible.

BA 280SM Co-op Ed: Sales and Marketing.......................... 3-12 credits In this internship course students will gain sales and marketing-related work experience in area businesses. Students will integrate theory and practice, develop skills and expand career knowledge while earning credit toward a degree. Meet with Business Co-op Coordinator the term before starting your internship if possible.

BA 281 Personal Finance ............................................... 4 credits This course is a comprehensive introduction to personal finance. Class emphasis is on personal budgets, real estate ownership, intelligent use of consumer credit, credit institutions, insurance, personal investing, stocks, bonds, retirement planning, and mutual funds. The course is designed to provide an understanding of personal topics and the analytical tools necessary to optimize personal decision making in the subject area. May be offered online.

BT 112 Team Building Skills ......................................... 3 credits This course examines the basics of building teams in the global business environment. Topics include: the team building process, workplace culture, online and interpersonal team communications, team decision-making, internal contrasts within teams, and motivation. Students will focus on team roles, creating effective teams, managing team conflict, managing stress, and developing team diversity. May be offered online. Note: BT 112 was formerly numbered BT 146. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.
CAD, CAM, Charring Drafting
CAM - See Manufacturing
CNC - See Manufacturing

Career Development

For information, contact the Counseling Department, Bldg. 1/103, 541.463.5299.

CG 100T College Success: WIT .............................................1-3 credits
Prerequisite: CG 220. This course is designed to help students enrolled in the Women in Transition Program in identifying, exploring and implementing vital self-management skills crucial to creating and maintaining success in college and life. Students will utilize a variety of experiential, personalized tools as they learn how to apply concepts of self-management to developing and achieving academic and personal goals.

CG 105 Money for College ..................................................2 credits
Prerequisite: WR 115. Corequisite: WR 105. This course is part of the ‘Show Me the Money’ learning community, providing a systematic approach to researching and applying for scholarships. You will identify your skills, accomplishments, experiences, and goals, then learn strategies to communicate them effectively on scholarship applications.

CG 140 Career and Life Planning .........................................1-3 credits
This course focuses on self-assessment and career exploration, as well as career research, decision making and goal setting, using a variety of activities and resources. You will gain insight into your interests, skills, values and personal style, and then explore possible majors and career fields. May be offered online.

CSK 101 Career Skills Training .............................................1-6 credits
Prerequisite: Instructor approval required. Co-requisite: Only available to students who have been referred by a Workers Compensation, State Vocational Rehabilitation or Veterans Administration counselor. This lab course follows a set curriculum in introductory workforce skills under the guidance of a cooperating employer in the students’ chosen field.

Chemistry

For information, contact the Science Division, Bldg. 16/Rm. 156, 541.463.5446.

CH 104 Introductory Chemistry ..........................................5 credits
Prerequisite: MTH 052 or above with grade of ‘C-’ or better or pass placement test. The first term of the standard General, Organic and Biological Chemistry sequence. Designed for students needing a laboratory based introduction to chemistry. Includes measurement, atomic structure, states of matter, bonding, reactions, stoichiometry, gases, solutions, equilibrium, and acid/base chemistry. Lecture and laboratory.

CH 112 Chemistry for Health Occupations ..................................4 credits
Prerequisite: MTH 052 or above with grade of ‘C-’ or better or pass placement test. Corequisite: BI 112. Introduction to atoms, bonding, acid/base chemistry and chemical reactions relevant to biological systems. Topics include metabolic pathways and function and structure of carbohydrates, lipids, proteins and nucleic acids. Lecture/Recitation. With BI 112, the prerequisite for Anatomy and Physiology BI 231.

CH 114 Introduction to Forensic Chemistry ..................................4 credits
Prerequisite: MTH 020 or above with grade of ‘C-’ or better or pass placement test. An introduction to chemistry in a forensic context. Topics include measurement, density, soil chemistry, chromatography, the chemistry of fire, DNA, and organic and inorganic data collection and analysis. Relationships between scientific disciplines are explored. Lecture and laboratory.

CH 150 Preparatory Chemistry .............................................3 credits
Prerequisite: MTH 065 or above with grade of ‘C-’ or better or pass placement test. Designed to prepare students with minimal chemistry experience to take CH 221. Topics include measurement, significant figures, dimensional analysis, density, nomenclature, atoms, stoichiometry and solutions; includes problem solving methods and calculations. Lecture/Recitation.

CH 221 General Chemistry 1 .............................................5 credits
Prerequisite: MTH 095 or above with grade of ‘C-’ or better or pass placement test. First course of the traditional general chemistry sequence designed for science, engineering and health science majors. Introduces measurement, atoms, stoichiometry, gases, thermodynamics, nuclear chemistry and introductory organic chemistry. Lecture and laboratory; lab emphasizes green chemistry.

CH 221S Chemistry Problem Solving .....................................1 credit
Corequisite: CH 221. Intended for CH 221 students who want additional practice. Lecture and lab.

CH 222 General Chemistry 2 .............................................5 credits
Prerequisite: Grade of ‘C-’ or better in CH 221. Topics include balanced equations, solutions, kinetics and concepts of equilibrium. Lecture and laboratory; lab emphasizes green chemistry.

CH 223 General Chemistry 3 .............................................5 credits
Prerequisite: Grade of ‘C-’ or better in CH 222. Topics include applications of equilibrium, acid/base chemistry, redox/electrochemistry, thermodynamics, nuclear chemistry and introductory organic chemistry. Lecture and laboratory.

CH 241 Organic Chemistry .............................................5 credits
Prerequisite: Grade of ‘C-’ or better in CH 222. First course of organic chemistry sequence for science and health science majors, with a green chemistry emphasis. Introduces organic functional groups, emphasizing hydrocarbons, with bonding theory, nomenclature, and reaction mechanisms. Lecture and laboratory.

CH 242 Organic Chemistry .............................................5 credits
Prerequisite: Grade of ‘C-’ or better in CH 241 Organic chemistry for science and health science majors, with a green chemistry emphasis. Topics include alcohols, ethers, aromatics, conjugated systems, aldehydes, and ketones. Lecture and laboratory.

CH 243 Organic Chemistry .............................................5 credits
Prerequisite: Grade of ‘C-’ or better in CH 242 Organic chemistry for science and health science majors, with a green chemistry emphasis. Topics include carbonyl systems, nitrogen containing organic compounds, conjugated/aromatic systems, and organic compounds of biochemical significance. Lecture and laboratory.

CH 280 Co-op Ed: Physics-Chemistry ...................................3-12 credits
This internship course offers a work experience that integrates theory and practice in the fields of physics or chemistry. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit.

GS 105 Physical Science ..................................................4 credits
Prerequisite: MTH 052 or above with grade of ‘C-’ or better or pass placement test. GS105 is a basic introduction to chemistry for non-science majors, including the periodic table of the elements, chemical formulas, simple reactions, gas laws, energy, and simple organic structures. Includes laboratory practice.

Child Development - See Early Childhood Education

College Preparation - See Study Skills and College Prep

College Success

For information, contact the Counseling Department, Bldg. 1/Rm. 103, 541.463.5299.

CG 100 College Success ..................................................1-3 credits
This course emphasizes practice and active learning of skills and strategies that help create greater academic, professional and personal success. College Success strategies empower students to make wise choices that lead to improved experiences and outcomes in college and beyond.

CG 100A College Success ..................................................1 credit
This course is the first block of the three credit CG100 College Success course. Students will study the following topics: Welcome to College, The First Step, Ideas are Tools, Finding the Time, Looking Ahead, You’ve Got a Great Memory and Muscle Reading.

CG 100B College Success ..................................................1 credit
Prerequisite: CG 100A. This course is the second block of the three credit CG100 College Success course. Students will study the follow- ing topics: Reading Challenges, Taking Notes, Challenges of Worth Noting, Preparing for the Test, This is Not a Test, Thinking Creatively and Thinking Critically.
### CG 100C: College Success - 1 credit

**Prerequisite:** CG 100A and CG 100B. This course is the third block of the three credit CG100 College Success course. Students will study the following topics: Math and Science; A D-Solution; Research: Solving a Mystery; Writing well - The First Draft; and Writing Well - The Final Presentation.

### Communication - See Speech Communication

### Computer Hardware Repair - See Electronics

### Computers: Introduction/Information Systems/Computer Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT 252</td>
<td>Web Tools: Photoshop &amp; Dreamweaver</td>
<td>4</td>
<td>This course covers the basics of the Web tools Adobe Photoshop and Dreamweaver with a focus on the retail or wholesale aspects of Internet business. The Photoshop portion of the class emphasizes photo manipulation and enhancement. The Dreamweaver portion covers the Dreamweaver software is required. May be offered online.</td>
</tr>
<tr>
<td>CIS 100</td>
<td>Computing Careers Exploration</td>
<td>2</td>
<td>This course introduces the field of computer technology through the introduction of fundamental technical skills and concepts. Students will understand how hardware, software and networks are organized to create computer information systems; how these systems are used by organizations; and the roles of information technology professionals in creating and maintaining these systems. This course provides an orientation for students who are considering programs of study and careers in the computing field. Students will learn about the degree and certification programs available, the knowledge and skills needed for entry level positions, the computer industry job market, current trends in the computer industry, and professional development and ethical issues that confront information professionals.</td>
</tr>
<tr>
<td>CIS 101</td>
<td>Computer Fundamentals</td>
<td>3</td>
<td>A hands-on introduction to personal computers and application software. Students will learn basic computer terminology, the role of computers in society, and the use of word processing, spreadsheet, presentation, and Internet software, including e-mail. May be offered online.</td>
</tr>
<tr>
<td>CIS 102</td>
<td>Problem Solving with Computers</td>
<td>4</td>
<td>This course introduces students to methods and tools for solving problems in an information systems environment. Students practice finding solutions using known problem-solving methods, and learn how to use spreadsheet and drawing software as problem-solving tools. The course is designed as an introductory course for several CIT Department degree programs. May be online.</td>
</tr>
<tr>
<td>CIS 125G</td>
<td>Software Tools 1: Game Development</td>
<td>4</td>
<td>Prerequisite: Basic computer literacy. This course is an introduction to the field of game development. It includes a survey of computer game categories and platforms, an overview of the game design and development process, and an introduction to tools used for graphics development and game development. Students in this course will create several elementary computer games.</td>
</tr>
<tr>
<td>CIS 125M</td>
<td>Software Tools: Mobile Development</td>
<td>4</td>
<td>This course provides students with no programming background with an introduction to mobile application development. Students will use a visual, drag and drop tool to build applications for the Android and will be introduced to fundamental programming concepts and skills in the process.</td>
</tr>
<tr>
<td>CIS 125W</td>
<td>Introduction to Virtual Worlds</td>
<td>4</td>
<td>This course introduces students to virtual worlds, such as Second Life or OpenSim. It includes a survey of different worlds, defining and customizing an avatar, and creating and animating objects in virtual worlds. Students will explore virtual world environment and work in teams building projects for those environments. May be offered online.</td>
</tr>
<tr>
<td>CIS 125W</td>
<td>Software Tools 1: Web</td>
<td>3</td>
<td>This course provides a hands-on introduction to Web 2.0 technologies, including blogs, forums, wikis, podcasting and videocasting. Students learn the principles and technologies behind Web2.0, and also learn about online Web 2.0 strategies that companies use. Web 2.0 is user participation centric and its online communities have become important to business and e-commerce. Students will complete project work in Web2.0 technologies that are important in online business, social networking and computer-based collaboration. Note: CIS 125W was formerly numbered CIS 135W. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit. May be offered online.</td>
</tr>
<tr>
<td>CIS 135G</td>
<td>Software Tools 2: Game Development</td>
<td>4</td>
<td>Prerequisite: CIS 125G and one of CIS 161J (formerly CIS 161), CS 161C+ (formerly CIS 133G), CS 133JS, or CS 133N (formerly CIS 133C#) or instructor’s permission. This course introduces students to the Unix/Linux operating system. It provides experience using the graphical user interface as well as the command line to run applications, do file management, and to do basic system administration. Students will learn the fundamental Unix/Linux command set, editors, scripting, and will install the operating system and be introduced to file system security.</td>
</tr>
<tr>
<td>CIS 140B</td>
<td>Operating Environments: Macintosh</td>
<td>1</td>
<td>An introduction to the user interface, file management, and utilities provided by the Macintosh computer. May be offered online. Note: This course is an introduction to the user interface, file management, and utilities provided by the Macintosh computer.</td>
</tr>
<tr>
<td>CIS 140S</td>
<td>Operating Environments: Windows</td>
<td>1</td>
<td>An introduction to the Windows operating environment. Students will learn the basic Windows utilities provided by the Windows operating system. May be offered online.</td>
</tr>
<tr>
<td>CIS 140U</td>
<td>Introduction to Unix/Linux</td>
<td>4</td>
<td>This course introduces the student to the Unix/Linux operating system. It provides experience using the graphical user interface as well as the command line to run applications, do file management, and to do basic system administration. Students will learn the fundamental Unix/Linux command set, editors, scripting, and will install the operating system and be introduced to file system security.</td>
</tr>
<tr>
<td>CIS 178</td>
<td>Introduction to the Internet</td>
<td>4</td>
<td>Prerequisite: Previous Windows-based computer experience or instructor consent is required. This course is an introduction to the nature and history of the Internet and shows students what happens when we do everyday things like accessing a web page, sending email, searching the web, or purchasing online. Prerequisite: Previous Windows-based computer experience is required, or instructor consent. May be offered online.</td>
</tr>
<tr>
<td>CIS 195</td>
<td>Web Authoring</td>
<td>3</td>
<td>Prerequisite: Basic computer literacy and file management. This course provides students with a little computer experience with the concepts and skills necessary to create static web pages using the newest version of Hyper Text Markup Language, HTML, and Cascading Style Sheets (CSS). Through hands-on practice students will master the concepts, tools and skills needed to construct web pages and to post pages on the internet. May be offered online. Note: CIS 195 was formerly numbered CS195 and formerly named CIS 125H - Software Tools 1: XHTML. A student who has taken this class under the previous number or name may not take it again under the new name and receive duplicate credit.</td>
</tr>
<tr>
<td>CIS 225</td>
<td>End-User Support</td>
<td>4</td>
<td>This course prepares students to support end-users in a variety of organizational settings. Topics include the end-user support function in the Windows operating system, in Apple Macintosh operating system, and on Unix/Linux operating system. May be offered online.</td>
</tr>
</tbody>
</table>

For information about classes with course numbers that begin with:
- BT, CIS, CS or HI - Contact the Business and Computer Information Technology Division, Bldg. 19/Rm. 137, (541) 463-5221.
- SKD - Contact Academic Learning Skills, Center Bldg./Rm. 218, 541.463.5439.

SKD - Contact Academic Learning Skills, Center Bldg./Rm. 218, 541.463.5439.
an organization, techniques to develop and deliver training modules, and strategies to provide ongoing technical support to end-users. Emphasis is on solving problems with users, needs analysis, troubleshooting, and interaction with users. Taught in a workbench lab environment.

CIS 244 Systems Analysis ............................................. 4 credits
Prerequisite: CIS 125D or instructor consent. This course provides students with an introduction to the concepts, skills and tools used in Systems Analysis. A systems analyst participates in the process of understanding and creating a detailed specification of the functionality that must be provided by an information system. Students will develop systems analysis skills by completing a small group case project.

CIS 245 Project Management .......................................... 4 credits
Prerequisites: Basic computer literacy and software application skills. This course covers essential skills needed to manage small-scale projects. The course features the phases of the project life cycle including definition, planning, implementation, monitoring, and termination. The emphasis is on the tools, practical methods and strategies that technology professionals use to manage successful projects and teams.

CIS 247 Information Analysis and Visualization .................... 4 credits
Prerequisite: MTH 065 or higher and GIS 151 or CIS 125D or instructor consent. CIS 247 introduces the field of information analysis: how information is designed, organized, analyzed, visualized, used and misused. The course emphasizes the use of GIS 161 of software tools for data with data to communicate information effectively through descriptive statistics and narratives, graphical visualization and map applications. The course assumes the student will have basic computer literacy concepts and experience using the Windows operating system and applications software.

CS 120 Concepts of Computing: Information Processing ............. 4 credits
This course is a general survey of computer fundamentals and principles. It is designed to familiarize students with a wide range of topics including basic computer hardware, software, and operating systems; word processing, spreadsheets and database applications; networks, security, and internet communications; and the impact of computers on individuals and society. May be offered online.

CS 133JS Beg. Programming: JavaScript ................................ 4 credits
This course is an introduction to fundamental programming concepts and skills as well as the syntax and semantics of the Python programming language.

CS 133P Beginning Programming: Python .......................... 4 credits
Pre-requisite: CIS 102 or instructor consent. This course provides students with little or no programming experience with an introduction to fundamental programming concepts and skills as well as the syntax and semantics of the Python programming language.

CS 160 Orientation to Computer Science ............................... 4 credits
Prerequisite: MTH 095, or MTH 111, or MTH 241, or placement test into MTH 111. This course explores the discipline and profession of computing. The course emphasizes an overview of computer hardware architecture, the study of algorithms, software design and development, data representation and organization, ethics and the history of computing and its influence on society. The student is exposed to both low-level and high-level programming languages. May be offered online.

CS 161C+ Computer Science 1 ......................................... 4 credits
Prerequisite: CIS 161J (formerly CS 161) or CIS 102 or CIS 160 or MTH 095 or higher or instructor consent. This course is an introduction to the principles of software design, development and testing. It includes basic syntax and semantics of a higher-level language, problem solving, algorithm and program design, data types, and program control structures. Development tools and object-oriented programming concepts are introduced. Programming assignments will involve developing simple games. Note: CS 161C+ was formerly numbered CS 133G. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

CS 161J Computer Science 1 ........................................... 4 credits
Prerequisite: CS 102 or CS 160 or CS161C+ (formerly CS 133G) or MTH 111 or higher or instructor consent. This course is an introduction to the principles of software design, development and testing. It includes basic syntax and semantics of a higher-level language, problem solving, algorithm and program design, data types, and program control structures. Development tools and object-oriented programming concepts are introduced. Note: CS 161J was formerly numbered CS 161. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

CS 162C+ Intermediate Programming C# ............................ 4 credits
Prerequisite: CS 161C+ (formerly CS133G) or instructor consent. This course is a continuation of Beginning C++ programming. Topics covered include more advanced Object-Oriented programming concepts, searching and sorting, linear data structures, streams and file I/O, recursion, exception handling, and graphical user interface programming. Students develop games working with a graphics library. CS 162C+ was formerly numbered CS 233G. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

CS 162J Computer Science 2 ............................................ 4 credits
Prerequisite: CS 161J (formerly 161) or instructor consent. This course is a continuation of Computer Science 1. Topics covered include more advanced Object-Oriented programming concepts, searching and sorting, linear data structures, stream and file I/O, recursion, exception handling, and graphical user interface programming. Note: CS 162J was formerly numbered CS 162. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

CS 179 Introduction to Computer Networks ................................ 4 credits
Prerequisite: Basic computer literacy. An introduction to computer networks with emphasis on theory and concepts. Provides a general overview of the networking field as a basis for continued study. Topics include network protocols and topologies, local area network architectures, the client-server model and internetworking devices. Provides experience using a local area network. May be offered online.

CS 188 Wireless Networking .................................................. 4 credits
Prerequisite: CS 179. This course introduces the student to wireless computer networking. It provides practical experience in installing, managing, and troubleshooting wireless local area networks (WLANs). Wireless security threats and methods for avoiding breaches of security are covered. When the student finishes the course, he/she will have a solid understanding of wireless networking concepts and will have the basic skills needed for installing such a network and making it secure. The course has a hands-on focus.

CS 206A Coop Ed: Computer Networks Seminar 1 .................... 1 credit
Students will increase their understanding of industry expectations as well as develop job search tools and skills. Students will learn and practice presenting themselves to employers in a competent and professional manner in preparation for a cooperative education internship.

CS 206B Coop Ed: Computer Networks Seminar 2 .................... 1 credit
Prerequisite: CS 206A. This course is a continuation of CS 206A and further develops student’s understanding of industry expectations as well as job search tools and skills. The emphasis is to provide additional skills that will help students find employment upon earning their degree.

CS 233N Intermediate Programming C# .................................. 4 credits
Prerequisites: CS 133N (formerly CS133G). This course is the second in a sequence of 2 courses that teaches students to develop desktop applications in the .NET environment. The course introduces intermediate level programming concepts and skills and C# syntax language and allows students to develop object oriented, data driven applications. Note: CS 233N was formerly numbered CS 233C#. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.
CS 233P Intermediate Programming: Python................. 4 credits
Prerequisite: CS133P. The course introduces intermediate level programming concepts and skills and Python syntax language and allows students to develop object oriented, data driven applications.

CS 234G Advanced C++ Programming for Games......... 4 credits
Prerequisite: CS 260 or instructor consent. This is the final course in the C++ programming sequence. Students will learn to use a variety of advanced features of C++, including bitwise operators, file input/ output, exceptions, templates, and STL containers. These skills will be used to design and code a challenging game project.

CS 235M Intermediate Mobile Application Development... 4 credits
Prerequisite: CS 233N (formerly CS 233 C#) or CS 162J (formerly CS 162). This course introduces student using object oriented programming to mobile application development and the Android System Devlopment Kit. Cross-platform mobile app development will be done using the Mono framework and the MonoDevelop IDE.

CS 240U Advanced Unix/Linux: Server Management....... 4 credits
Prerequisite: CIS 140U and CS 179, or instructor consent. The course covers network administration of Unix/Linux. Topics include: operating system installation, configuration, troubleshooting, user and group account management, network printing, application installation and sharing, network server configuration (for example: DHCP, DNS, NFS, Apache, and Web 2.0), and interoperability with other network operating systems. The course has a hands-on focus.

CS 240W Advanced Windows: Server Management........ 4 credits
Prerequisite: CIS140W (formerly CIS 140) or CS 179 or CIS 227N or instructor consent. This course introduces concepts of Windows Server and network administration. Topics include server installation, Active Directory, network printing, user account and group management, web services, network troubleshooting, group policy objects, and permission assignment. This course has a hands-on focus. Note: CS 240W was formerly numbered CS 279W. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

CS 246 System Design........................................... 4 credits
Prerequisites: CS 234G or CS295N (formerly CS 295A)”. In this course, students will learn to design and plan software systems. Topics covered will include requirements gathering, design evaluation and documentation, and object-oriented program design. By the end of the course, students will have produced a design for a significant software project in a team environment. Note: CS 246 was formerly numbered CS 235G. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

CS 253 Computation for Computer Graphics.............. 4 credits
Prerequisite: MTH 111 or higher and CS 162C (formerly CS 233G). This course introduces students to the computational methods used for displaying and rendering graphical images in computer simulations and games. The course will combine a discussion of each method with programming exercises demonstrating how to apply it. Students will both create programs and work with graphical display engines in their exercises.

CS 260 Data Structures 1....................................... 4 credits
Prerequisites:CS 162C+ (formerly CS 233G) or CS 162J (formerly CS162) and MTH 095 or higher or instructor consent. This course is intended primarily for students seriously interested in computer science. Students will demonstrate the usage of using advanced data structures, including linked-lists and tree structures using pointers, and advanced structure programming methods through a variety of programming projects.

CS 271 Computer Architecture and Assembly Language.... 4 credits
Prerequisite:CS 161J (formerly CS161) or CS 161C+ (formerly CS133G) or CS133N (formerly CS133C#), or instructor consent. An introductory course in computer architecture and programming in assembly language. Topics include computer organization, micro-architecture, logic gates and boolean algebra, data representation and manipulation, arithmetic operations, branching instructions, data editing, and input/output. Lab work provides experience working with an assembly language performing arithmetic, input/output, and table look-ups.

CS 275 Database Systems and Modeling.................... 4 credits
Prerequisites: CIS 125D and CIS 244 or instructor consent. This is an introduction to production-scale, relational database environments. Included in the course are discussion and application of database models, entity relationship design, normalization, and an introduction to SQL query usage and development.

CS 276 Database SQL Programming.......................... 4 credits
Prerequisite: CS 275. Focuses on design, development, and implementation of SQL programming in an enterprise database environment. Covers creating and maintaining database objects and writing complex interactive and embedded SQL statements for data retrieval and manipulation.

CS 279 Essentials of Network Administration............. 4 credits
Prerequisite: CS 179. Provides students with an in-depth understanding of key networking concepts and tools enabling them to be successful in networking courses and as networking professionals. Example topics: Network design/mapping, TCP/IP protocols, IP addressing, port numbers, and routing protocols.

CS 280CN Co-op Ed: Computer Network Operations...... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of computer networking. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

CS 280DP Co-op Ed: Data Processing...................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of data processing. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

CS 280GD Co-op Ed: Computer Simulation & Game Development.................................................. 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of computer simulation and game development. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

CS 280H Coop Ed: Health Informatics...................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of health informatics. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

CS 280PR Co-op Ed: Programming........................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of computer programming. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

CS 280SS Co-op Ed: Systems Support....................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of computer systems support. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

CS 284 Network Security Fundamentals..................... 4 credits
Pre-requisite: CS 179 or instructor consent. This course covers fundamental computer and network security concepts from the security plus certification material. It emphasizes securing the operating system, applications, media, network devices, web pages, e-mail, and network services. In addition, types of attacks, digital certificates, keys, and designing and implementing security policies and procedures are discussed. This course has a hands-on focus.

CS 285 Operating System Hardening........................ 4 credits
Prerequisite: CS 240W and CS 284, or instructor consent. Corequisite: CS 240U. This course gives the students a real world understanding of the vulnerabilities that exist in today’s operating systems and given practical, hands-on experience resolving and/or mitigating the vulnerabilities. We will use real systems (like Windows Server and Linux), the latest security resolution guidance, industry accepted tools to apply the resolutions, and industry accepted tools to measure the effectiveness of the resolutions. When the student finishes this course, they will have a solid understanding of actual threats to computer systems and the resolutions to mitigate those threats and vulnerabilities. This course has a hands-on focus.
CS 288 Network Monitoring and Management .................. 4 credits
Prerequisite: CS 279 or instructor consent. This course primarily covers configuring and managing Cisco routers and switches. It deals with modern routing protocols and protocols used by Internet-working devices such as hubs, bridges, routers, and switches with particular emphasis on routers. Wide area networking technologies are also covered. Students will learn to configure and manage routers and switches through hands-on lab work and learn to use protocol analysis software.

CS 295N Web Development 1: ASP.NET ...................... 4 credits
Prerequisite: HI 111 or HI 107 or HI 111 or instructor consent. Instruction in HIPAA and the role of practitioners using these systems, they will learn what is happening "under the hood." This environment, they will experience threats to security and appreciate the need for standards, high levels of usability, and sources of errors.

CS 295P Web Development 1: PHP ......................... 4 credits
Prerequisite: CS 133JS or instructor consent. This course provides students who have working knowledge of HTML and client-side JavaScript with an introduction to server-side web programming using PHP. Students will begin to develop the concepts and skills necessary to develop dynamic, data driven web applications. Note: CS 295P was formerly named CS 295A. A student who has taken this class under the previous number may not take it again under this new name and receive duplicate credit.

CS 296N Web Development 2: ASP.NET ....................... 4 credits
Prerequisite: CS 296N (formerly CS 296A) or instructor consent. This is the second in a sequence of 2 courses that teaches students who have a working knowledge of C# and Visual Studio to develop web based applications in the .NET environment. This course introduces students to server-side web programming concepts as well as the ASP.NET framework. Note: CS 296N was formerly named CS 296A. A student who has taken this class under the previous number may not take it again under this new name and receive duplicate credit.

CS 296P Web Development 2: PHP .............................. 4 credits
Prerequisite: CS 296P or CS 295 or instructor consent. This is the second course in the (server-side) Web Development sequence. It provides students who have working knowledge of server-side web programming with the concepts and skills necessary to develop dynamic, data driven, object oriented web-based applications. Note: CS 296P was formerly named CS 295 - Web Development 2 and CS 296 - Web Development 2. A student who has taken this class under previous names may not take it again under this new name and receive duplicate credit.

CS 297G Simulation & Game Development Capstone ...... 4 credits
Prerequisite: CS 235G. This is the final course in the Simulation and Game Development Program. This course ties together the topics covered in the first and second year courses of the computer simulation and game development program. It emphasizes the application of this knowledge in a project oriented environment. Students will work in teams creating a working, non-trivial simulation or game built on an industry standard engine programming in C++ and using industry standard tools.

CS 297P Programming Capstone .......................... 5 credits
Prerequisite: CS 296N (formerly CS 296A), CS 244, and CS 275 or instructor consent. This course is an advanced course in programming methods with an emphasis on development of database related applications for the web. The course ties together topics covered in the first and second year of the programming curriculum. It emphasizes practical application and working knowledge and is project oriented. One modern and representative web server/web development technology will be used for implementation. Note: CS 297P was formerly numbered CS 297. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

HI 101 Introduction to Health Care and Public ............ 4 credits
This course surveys health care and public health organization and the delivery of health services in the U.S. Included in the survey are relevant organizations and their interrelationships, professional roles, legal and regulatory issues, payment systems, public health policies and the importance of health reform initiatives. May be offered online.

HI 107 Working with Health IT Systems .................... 4 credits
Students will learn to work with simulated Electronic Health Record (EHR) systems or real EHR systems with simulated data. As they play the role of practitioners using these systems, they will learn what is happening "under the hood." This environment, they will experience threats to security and appreciate the need for standards, high levels of usability, and sources of errors.

HI 111 Selecting, Implementing, and Customizing Electronic Health Records Systems ............................ 4 credits
Prerequisite: HI 107 or instructor consent. Through this course the students will learn basic methods for assessing, selecting, and implementing an Electronic Health Record system that satisfies ONC/CMS meaningful use criteria in a health care setting. Students will also work in a simulated EHR environment and develop skills at customizing an EHR to meet the information needs and practices of various users in clinical settings.

HI 208 Installation and Maintenance of Health IT .......... 4 credits
Prerequisite: HI 111 or instructor consent. Instruction in installation and maintenance of health IT systems, including testing prior to implementation, introduction to principles underlying system configuration, and hands-on experiences working with EHRs in computer labs.

HI 209 Networking and Health Information Exchange ...... 3 credits
Prerequisite: HI 111 or instructor consent. In-depth analysis of data transport including the hardware infrastructure (wireless and devices supporting them), the ISO stack, standards, Internet protocols, federations and grids, the NHIN and other nationwide approaches.

HI 214 Comparative Electronic Health Records Systems .................................................. 4 credits
Prerequisite: HI 111 or instructor consent. A comparative analysis of the most popular Electronic Health Record (EHR) systems highlighting the features of each as they would relate to practical deployment in specific health care settings. Note: HI 214 was formerly numbered HI 114. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

SKD 030 Using Computers to Write 1 .......................... 3 credits
Prerequisite: Keyboard familiarity. This course introduces students to word processing on the PC as well as basic grammar concepts. Concurrently, students will improve academic writing skills using the word processor as a tool. Adaptive technology may be used for students with physical or learning disabilities. For a description of this ALS class in Spanish, see lanec.edu/als/en-espanol.

Computers: Keyboarding

For information about classes with course numbers that begin with:
BT  - Contact the Business and Computer Information Technology Division, Bldg. 19/Rm. 137, 541.463.5221.
SKD - Contact Academic Learning Skills, Center Bldg./Rm. 218, 541.463.5439.

BT 010 Computer Keyboarding .................................. 1-3 credits
Prerequisite: Basic computer knowledge. Introduction to the computer
keyboard with mastery of the alphabetic, punctuation, and numeric keys by way of the touch system. Basic formatting of personal business letters, academic reports, and title pages. May be offered online.

Basic introduction on using web-based keyboarding software.

**BT 015 Keyboard Skillbuilding 1** .................................1-3 credits
Prerequisite: Typing with 30-35 wpm on a three-minute timing and basic computer knowledge. Development of speed and accuracy utilizing a diagnostic approach to individual skill assessment and prescribed drill work. May be offered online.

**BT 016 Keyboard Skillbuilding 2** .................................1-3 credits
Prerequisite: Typing with 35+ wpm on a three-minute timing and basic computer knowledge. Development of speed and accuracy utilizing a diagnostic approach to individual skill assessment and prescribed drill work. May be offered online.

**BT 017 Keyboard Skillbuilding 3** .................................1-3 credits
Prerequisite: Typing with 35+ wpm on a three-minute timing and basic computer knowledge. Development of speed and accuracy utilizing a diagnostic approach to individual skill assessment and prescribed drill work. May be offered online.

**SKD 025 Keyboarding for Personal Use** .......................3 credits
This course teaches keyboarding basics in order to develop appropriate speed and accuracy to meet personal academic goals. Adaptive technology may be used for students with physical or learning disabilities. This course is intended as a one-term introduction to keyboarding. For a description of this ALS class in Spanish, see lanecc.edu/als/en-espanol.

**Computers: Software Application**
For information, contact the Business and Computer Information Technology Division, Bldg. 19/Rm. 137, 541.463.5221.

**BT 120 MS WORD for Business** .................................3 credits
Prerequisites: Recommend familiarity with Windows operating system and the ability to accurately type 30 words per minute. Visit lanecc.edu/business/testing/keyboarding-skill-competency-recommendations for Business Department keyboarding guidelines or contact the instructor for details. As an introduction to the entry-level business word processing objectives of MS Word, this course emphasizes information and training on working with the Windows operating environment; creating, editing, formatting, paginating, and printing documents; applying document refinements; using styles and templates; working with graphics; and managing documents. Application of a variety of documents includes letters with envelopes/labels, memos, reports, tables, and newsletter-style columns with headers and footers. May be offered online.

**BT 122 MS POWERPOINT for Business** .......................3 credits
**BT 122 MS POWERPOINT for Business Course Description:** Prerequisite: Recommend familiarity with Windows operating system and the ability to accurately type 30 words per minute. Visit lanecc.edu/business/testing/keyboarding-skill-competency-recommendations for Business Department keyboarding guidelines or contact the instructor for details. Using current PowerPoint software, students create, modify, customize and preview slide show presentations. Students manage documents and work with text, visual elements, and program features that enhance slide shows. Design principles are applied to create professional looking presentations. May be offered online. Note: BT 122 was formerly numbered BT 118. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

**BT 123 MS EXCEL for Business** .................................4 credits
**Prerequisite:** CS 120 and MTH 065 or higher or equivalent math placement test. Recommend the ability to accurately type 30 words per minute and key 130-132 strokes per minute on an electronic calculator (or numeric keypad). Visit lanecc.edu/business/testing/keyboarding-skill-competency-recommendations for Business Department keyboarding guidelines or contact the instructor for details. This course introduces students to the use of Microsoft Excel to analyze questions found in a typical business setting. Students will create accurate, professional-looking spreadsheets and graphs. May be offered online. Note: BT 123 was formerly numbered BT 114. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

**BT 124 MS ACCESS for Business** ...............................3 credits
**Prerequisite:** BT 123 (formerly BT 114). Recommend familiarity with Windows operating system and the ability to accurately type 30 words per minute and key 130-132 strokes per minute on an electronic calculator (or numeric keypad). Visit lanecc.edu/business/testing/keyboarding-skill-competency-recommendations for Business Department keyboarding guidelines or contact the instructor for details. This hands-on application-oriented course is designed to provide students with the basic functions and business applications of Microsoft Access. This course gives students the skills required to extract the data they need (queries), build efficient front- ends for that data (forms), and publish the results in an attractive and easy-to-read format (reports). May be offered online. Note: BT 124 was formerly numbered BT 124. A student who has taken this class under the previous number may not take it again under this new number and receive duplicate credit.

**BT 150 Business Web Pages** ......................................3 credits
**Introduction to creating and maintaining business web pages, including business web concepts, use of HTML5, CSS3, and incorporating business graphics into a business web page. Focus will be on project completion for a local business and approval/acceptance by a web project for the school. May be offered online. Note: BT 150 was formerly numbered BT 192. A student who has taken this class under the previous number may not take it again under this new number to receive duplicate credit.

**BT 163 QuickBooks** ..................................................4 credits
**Prerequisites:** BT 123 (formerly BT 114) and BT 165. This course introduces students to the use of QuickBooks for accounting. Attention is given to the application of the entire accounting cycle from the creation of a company file, to and including, the end-of-period closing for both service providers and merchandisers with an emphasis on planning and analysis. Students will also be introduced to basic systems, manufacturing, payroll, client management, job tracking and other features of QuickBooks. Students will convert a manual practice set used in BT 165 to QuickBooks. The course will emphasize being both competent and efficient with QuickBooks. May be offered online. NOTE: BT 163 was formerly numbered BT 113. A student who has taken this class under a previous number may not take it again under this new number and receive duplicate credit.

**BT 220 MS WORD for Business - Expert** .................3 credits
**Prerequisite:** BT 120. Recommend the ability to accurately type at least 35 words per minute. Visit lanecc.edu/business/testing/keyboarding-skill-competency-recommendations for Business Department keyboarding guidelines or contact the instructor for details. As an advanced software applications course, students will review, apply, and expand software skills learned in earlier courses. New skills will be added through practice with other MS Office applications and current Web technologies. Projects are designed to be the suite of MS Office applications to complete production tasks. Students are expected to have a strong background in MS Word and MS Excel and familiarity with PowerPoint and Access. Students will analyze data and produce professionally formatted business documents through application of integration principles. In completing simulation tasks and projects, students will plan, prioritize, and organize work; use initiative to make decisions about appropriate document appearance and format; and use and continue to develop professional human relations and communications skills working in teams. Students will continue
the development of keyboarding skills through weekly practice and timings. May be offered online.

CIS 125D Software Tools 1: Databases ............................................. 4 credits

This course provides students with the concepts and skills required to use relational databases in the solution of non-trivial problems. Students will learn to create and use relational database concepts, vocabulary and functionality. Through hands-on exercises, students will demonstrate the implementation of those concepts in a representative relational database package. Students will review computer related problem solving skills and will apply those skills by designing, implementing, testing, debugging and documenting relational database solutions to case problems. Students require basic computer literacy skills for this course. May be offered online.

Construction

For information, contact the Advanced Technology Division, Bldg. 12/Rm. 201, 541.463.5380.

CST 110 Blueprint Reading 1 .................................................... 3 credits

Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Provides skills in understanding blueprints. Emphasizes fundamentals of blueprint reading, including developing skills in understanding basic lines, views, dimensions, symbols, and notations.

CST 111 Construction Orientation and Environment .......................... 2 credits

Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Introduction to the construction industry. Economic and environmental influences affecting the construction industry. Material will be presented covering the work in the construction field and professional opportunities open to construction graduates.

CST 116 Construction Estimating ............................................. 4 credits

Prerequisite: CST 110 Study of techniques used to estimate construction materials and costs for residential and small commercial structures.

CST 118 Building Construction .............................................. 1-5 credits

Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Project work required to plan, design, and construct buildings. A variety of elements and topics related to the materials and methods used in the construction of buildings, including planning the site, foundation, framing, and interior and exterior finishing. This course through project work provides an orientation to electrical, mechanical, and plumbing systems. CST 118 consists of a total of 15 credits (264 hours). Majors should enroll in 5 credits per term for three terms to satisfactorily complete.

CST 119 Building Construction Surveying ...................................... 3 credits

A beginning course in surveying concepts and techniques with application to building construction. Fundamentals of surveying methods and the use and care of surveying equipment as related to surveying tasks involved in building construction. Emphasis is placed on field practice. CONSTRUCTION MAJORS ONLY.

CST 122 Construction Codes .................................................. 2 credits

Overview of construction codes specifying the standards of construction and the installation of electrical and plumbing fixtures. Building codes and the function of government agencies (state and local) charged with the administration and inspection of building construction will also be discussed.

CST 201 Sustainable Building Practices ..................................... 3 credits

Prerequisite: CST 110 Study related to the needs of the individual in the understanding and interpretation of blueprints for special features of design, fabrication, construction, and assembly.

CST 280 Co-op Ed: Construction ............................................. 3-12 credits

This course provides students with construction-related learning in professional construction businesses and organizations and integrates theory and practice gained in the classroom. Students develop skills, explore career options and network with professionals and employers while earning college credit toward a degree.

LAT 131 Introduction to Landscape Construction ............................. 3 credits

This course introduces common landscape construction techniques. Students will study fundamental concepts of soils, basic plant needs, irrigation, paving, and plant installation, and will apply their understanding in actual construction projects.

LAT 155 Landscape Plants 1 .................................................. 4 credits

Identification, characteristics, appropriate uses, and cultural requirements of plants used in landscaping in the Pacific Northwest. Students will become familiar with typical Pacific Northwest plant communities and basic ecological relationships; will learn to identify native and ornamental plants; and will learn how to select the right plant for the right place. Fall term course focuses on deciduous trees and shrubs.

LAT 156 Landscape Plants 2 .................................................. 4 credits

Identification, characteristics, appropriate uses, and cultural requirements of plants used in landscaping in the Pacific Northwest. Students will become familiar with typical Pacific Northwest plant communities and basic ecological relationships; will learn to identify native and ornamental plants; and will learn how to select the right plant for the right place. Winter term course focuses on evergreen trees and shrubs.

LAT 157 Landscape Plants 3 .................................................. 4 credits

Identification, characteristics, appropriate uses, and cultural requirements of plants used in landscaping in the Pacific Northwest. Students will become familiar with typical Pacific Northwest plant communities and basic ecological relationships; will learn to identify native and ornamental plants; and will learn how to select the right plant for the right place. Spring term course focuses on flower plants, trees and shrubs, vines, and ground covers.

LAT 280 Co-op Ed: Landscape .................................................. 3-12 credits

Prerequisite: Instructor approval. This internship course provides on-the-job learning experiences related to the landscape field in community businesses and organizations. Students will integrate theory and practice, develop skills, explore career options and network with professionals and employers while earning credit toward a degree.

Cooperative Education/Internships

For information, contact the Cooperative Education Division, Bldg. 19/Rm. 231, 541.463.5203.

AB 280 Co-op Ed: Auto Body and Fender ........................................... See page 195

AIL 280 Co-op Ed: American Indian Language ................................... See page 234

AM 280 Co-op Ed: Automotive ................................................... See page 195

ANTH 280 Co-op Ed: Anthropology .............................................. See page 188

ART 280A Co-op Ed: Art and Applied Design ................................... See page 194

ART 280GD Co-op Ed: Graphic Design ........................................... See page 266

AV 280 Co-op Ed: Aviation Maintenance ......................................... See page 195

BA 280 Co-op Ed: Business Management .......................................... See page 198

BA 280AA Co-op Ed: Administrative Office ..................................... See page 186

BA 280Co-op Ed: Accounting .................................................... See page 186

BA 280L Co-op Ed: Legal Office .................................................... See page 235

BA 280RM Co-op Ed: Retail Management ........................................ See page 198

BA 280SM Co-op Ed: Sales and Marketing ....................................... See page 198

BI 280 Co-op Ed: Biology .......................................................... See page 197

BT 206 Co-op Ed: Business Seminar ............................................. See page 198

CA 280 Co-op Ed: Culinary Arts, Second Year .................................. See page 207

CG 280HS Co-op Ed: Human Services ........................................... See page 231

CH 280 Co-op Ed: Physics-Chemistry ........................................... See page 199

CJA 280 Co-op Ed: Criminal Justice ............................................... See page 207

COOP 280SLS Co-op Ed: Service Learning ....................................... See page 12-13 credits

CS 206A Coop Ed: Computer Networks Seminar 1 ................................ See page 201

CS 206B Coop Ed: Computer Networks Seminar 2 ................................ See page 201

CS 280CN Co-op Ed: Computer Network Operations .......................... See page 202

CS 280DP Co-op Ed: Data Processing ............................................. See page 202

CS 280GD Co-op Ed: Computer Simulation & Game Development ........................................... See page 202

CS 280H Coop Ed: Health Informatics ............................................. See page 202

CS 280PR Co-op Ed: Programming ................................................. See page 202

CS 280SS Co-op Ed: Systems Support ............................................. See page 202

CST 280 Co-op Ed: Construction ................................................. See page 205

DA 206 Co-op Ed: Dental Assisting Seminar .................................... See page 210
DA 280 Co-op Ed: Dental Assisting See page 210
DH 280 Co-op Ed: Dental Hygiene See page 211
DS 280 Co-op Ed: Diesel See page 212
ED 280 Co-op Ed: Education See page 215
ED 280EC Co-op Ed: Early Childhood Education See page 215
ED 280SE Co-op Ed: September Experience See page 215
EMT 280P1 Co-op Ed: EMT Internship Part 1 See page 218
EMT 280P2 Co-op Ed: EMT Internship Part 2 See page 218
ENG 280 Co-op Ed: Engineering See page 220
ENG 280D Co-op Ed: Drafting See page 213
ENG 280E Co-op Ed: Electronic Technology See page 215
ENG 280M Co-op Ed: Manufacturing Technology See page 239
ENGR 280W Co-op Ed: Welding See page 222
ES 280 Co-op Ed: Ethnic Studies See page 221
FL 280W Co-op Ed: International Work Experience See page 234
FN 280 Co-op Ed: Dietary Manager See page 253
FR 280 Co-op Ed: French See page 234
FT 280 Co-op Ed: Flight Tech See page 224
G 280 Co-op Ed: Geology See page 214
G 280ES Co-op Ed: Environmental Studies See page 214
GEOG 280 Co-op Ed: Geography See page 225
GIS 280 Co-op Ed: Geographic Information Science See page 225
GS 280ST Co-op Ed: Science Technology See page 214
GWE 180 Co-op Ed: General Work Experience See page 253
GWE 280 Co-op Ed: General Work Experience See page 253
HE 280 Co-op Ed: Health Occupations See page 228
HIT 280 Co-op Ed: Health Records See page 225
MUG 280 Co-op Ed: Music See page 249
GWE 280 Co-op Ed: General Work Experience See page 253
GWS 280 Co-op Ed: General Work Experience See page 253
HRTM 280 Co-op Ed: Hospitality Management See page 230
HST 280 Co-op Ed: History See page 229
J 280 Co-op Ed: Journalism See page 233
JPN 280 Co-op Ed: Japanese See page 234
LAT 280 Co-op Ed: Landscape See page 205
MA 206 Co-op Ed: Medical Office Assistant Seminar See page 247
MA 280 Co-op Ed: Medical Office Assistant See page 247
MDP 280 Co-op Ed: Multimedia See page 246
MTH 280 Co-op Ed: Mathematics See page 245
MUS 280 Co-op Ed: Music See page 249
NRG 206A Co-op Ed: Energy Management Seminar 1 See page 219
NRG 206B Co-op Ed: Energy Management Seminar 2 See page 219
NRG 280 Co-op Ed: Energy Management See page 219
NRS 280 Co-op Ed: Nursing See page 252
OST 280 Co-op Ed: Occupational Skills See page 253
OST 280CE Co-op Ed See page 253
PE 280 Co-op Ed: Physical Education See page 221
PE 280A Co-op Ed: Athletics See page 221
PE 280AR Co-op Ed: Aerobics See page 221
PE 280AT Co-op Ed: Athletic Training See page 222
PE 280C Co-op Ed: Coaching See page 222
PE 280F Co-op Ed: Fitness See page 222
PE 280M Co-op Ed: Fitness Management See page 222
PE 280R Co-op Ed: Recreation See page 222
PE 280RT Co-op Ed: Corrective Fitness See page 222
PE 280W Co-op Ed: Wellness See page 222
PS 280LW Co-op Ed: Pre Law See page 261
PSY 280 Co-op Ed: Psychology See page 262
OST 280 Co-op Ed: Occupational Skills See page 253
PTA 280B Co-op Ed: First Clinical Affiliation See page 252, 259
PTA 280B Co-op Ed: Second Clinical Affiliation See page 253, 259
PTA 280C Co-op Ed: Third Clinical Affiliation See page 253, 259
SOC 280 Co-op Ed: Sociology See page 264
SPAN 280 Co-op Ed: Spanish See page 235
TA 280 Co-op Ed: Performing Arts See page 267
WATR 206A Coop Ed: Water Conservation Seminar 1 See page 268
WATR 280 Co-op Ed: Water Conservation Seminar 2 See page 268
WATR 280 Coop Ed: Water Conservation Technician See page 268
WLD 180 Co-op Ed: Welding See page 223
WLD 206 Co-op Ed: Welding Seminar See page 223
WR 280 Co-op Ed: English/Writing See page 272
WST 206 Co-op Ed: Watershed Science Technician Seminar See page 268
WST 280 Co-op Ed: Watershed Science Technician See page 269

Criminal Justice

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

CJA 100 Introduction to Criminal Justice 1 3 credits Philosophy and history of criminal justice agencies, American and foreign; analysis of the policies and practices of agencies involved in the operations of the criminal justice process from detection of crime; arrest of suspects, prosecution, adjudication, sentencing, and imprisonment to release. Also, the organization of criminal justice agencies; theories and current practices in corrections and crime prevention; The evaluation of contemporary criminal justice services; survey of professional career opportunities.

CJA 101 Introduction to Criminology 3 credits The study of deviant behavior as it relates to the definition of crime; crime statistics; theories of crime causation; crime typologies, the impact of crime, juvenile delinquency, and society’s reactions to criminal behavior.

CJA 110 Introduction to Criminal Justice 2 3 credits This course is the second of a two-term Intro to Criminal Justice sequence. It focuses on the court system, processing of defendants, court organization, and the trial process. In addition, the class will provide an in-depth analysis of the corrections system and occupa tions, sentencing issues, parole and probation and the juvenile justice system.

CJA 201 Juvenile Delinquency 3 credits A review of the historical reasons for the establishment of juvenile courts in the United States; an examination of the juvenile justice process; and an introduction to the functions of the various components of the system. Sociological concepts and theory of the adolescent subculture will be explored. Delinquency prevention aspects as well as treatment methodologies will be included. Oregon juvenile court law is examined.

CJA 210 Criminal Investigation 1 3 credits Fundamentals of criminal investigation, theory, and history; crime scene to courtroom with emphasis on techniques appropriate to specific crimes.

CJA 213 Interviewing and Interrogation 3 credits This course will examine the dynamics of psychological persuasion, and the product of criminal interrogations. The processes and techniques used will be the focus during the course with specific attention to the practical and legal limitations of achieving the goals of interviewing.

CJA 214 Introduction to Forensic Science 4 credits This course is an introduction to forensic science, crime scene investigations, physical evidence, and legal aspects of evidence, and is designed for all students interested in forensic science. The student will learn how to process crime scenes, the types of physical evidence that may be encountered, and how evidence is analyzed in the laboratory. Emphasis will placed on the interpretation of analytical test results as the as they relate to the limitations of the evidence itself, how the evidence was collected, the case context, and other factors. The student will have hands-on laboratory exercises in analyzing and comparing physical evidence. Critical thinking and the application of the scientific method will be emphasized in all laboratory exercises. Class concepts will be reinforced with actual case examples whenever possible.

CJA 220 Introduction to Criminal Law 3 credits Historical development, philosophy of law and constitutional provisions, definitions, classification of crime and their application to the system of criminal justice; legal research, study of case law, methodology, and concepts of law as a social force.

CJA 222 Criminal Law: Procedural Issues 3 credits Developmental history in English common law and United States case law; constitutional and statutory provisions relative to arrest, search and seizure. Rights and responsibilities of citizens and criminal justice personnel and agencies.

CJA 232 Correctional Casework 3 credits Basic concepts of interviewing and counseling techniques used by correction officers, in one-to-one contacts with clients. To prepare...
the student for practice in the public safety fields, for both juvenile and adult clients.

CJA 243 Narcotics and Dangerous Drugs ........................................ 3 credits
Introduction to the problems of substance abuse alcohol, drugs, narcotics in our society. This course is designed to equip criminal justice, social service, and other human service workers with increased background and knowledge of today's drug technology, including pharmaceuticals, over-the-counter agents, and illicit drugs.

CJA 280 Co-op Ed: Criminal Justice ........................................ 3-12 credits
Prerequisite: CJ 100 & CJ 110 or instructor permission. This course provides the student with criminal justice-related work experience in community organizations. The student will have the opportunity to integrate theory with practical experience in the professional work environment. In this course a student may develop skills, explore career options, and network with professionals and employers while earning credit toward a degree.

Culinary Arts

For information, contact the Culinary Arts and Hospitality Management Department, Bldg. 19/Rm. 202, 541.463.3503.

CA 110 Culinary Adventuring: Local Guest Chef Series ........ 2 credits
Open to the Public. Course may be repeated for credit. It is designed to offer students cooking instruction by well known and respected local chefs and food purveyors through lecture, demonstration, hands-on experiences and tastings.

CA 120 Culinary Adventuring: Seasonal Baking and Pastry ........................................ 2 credits
Prerequisite: CPC/CAHM Majors only. Course may be repeated for credit for up to eight credits. It is designed to apply classical baking and pastry techniques with the use of seasonal produce. Students will learn about local produce availability as well as Oregon's agricultural organic and sustainable values.

CA 121 Culinary Adventuring: The Composition of Cake .... 2 credits
Prerequisite: CPC/CAHM Majors only. This course is designed to teach classical techniques of baking and decorating cake production. All components of making and decorating cakes will be covered. Students will also be introduced to working with specialty cake ingredients.

CA 123 Culinary Adventuring: International Baking & Pastry ................................................ 2 credits
Prerequisite: CPC/CAHM Majors only. This course is designed to apply classical baking and pastry techniques from across the globe to create authentic and traditional recipes, both sweet and savory. With guided, hands-on instruction, students will learn cooking and baking preparation styles used in different countries.

CA 130 Culinary Adventuring: Oregon Wine Country ........ 2 credits
Open to public 21 years or older. This course introduces students to the process of wine making as it relates to Oregon, especially the Willamette Valley. Each week winemakers from the Willamette Valley will discuss their wines and demonstrate how they complement foods.

CA 159 Kitchen Fundamentals ........................................ 2 credits
Prerequisite: CA 175 This course will give hospitality students a hands-on experience in the professional kitchen; including the fundamentals of food safety, sanitation, mastering tools and equipment, basic cooking techniques, and basic skills that are found in kitchen operations.

CA 160 Introduction to Cooking Theories 1 ....................... 6 credits
Culinary Arts majors only. This class will introduce students to tools and equipment, culinary history, terminology and culinary concepts. Focus is on basic culinary theory, introduction to cooking techniques and fundamentals, and practical application of safety and sanitation concepts.

CA 162 Introduction to Cooking Theories 2 ....................... 7 credits
Prerequisite: CA 160 This class continues to build the culinary theory, techniques and principles introduced in CA 160, Cooking Theories 1. Focus is on further developing students culinary understanding and skills through meat fabrication.

CA 163 Introduction to Cooking Theories 3 ....................... 7 credits
Prerequisite: CA 162. This class focuses on baking and pastry for cooks; an introduction to the tools and equipment of the bakeshop, baking history, terminology and baking concepts. Focus is on basic baking and pastry theory and introduction to baking and pastry techniques.

CA 163A Beginning Baking and Pastry ........................................ 3 credits
Prerequisite: CPC/CAHM majors only. Students are introduced to the fundamentals of baking and pastry production, including food safety and sanitation and culinary math in relation to recipe comprehension, conversion and costing from the point of view of bakers' percentages. Focus is on classical baking and pastry techniques.

CA 163B Intermediate Baking and Pastry ........................................ 3 credits
Prerequisites: CA 163A. This course is a continuation of CA 163A. Students will continue to practice fundamentals of baking and pastry production, including food safety and sanitation and fundamental culinary math in relation to recipe comprehension, conversion and costing from the point of view of bakers’ percentages.

CA 163C Advanced Baking and Pastry ........................................ 3 credits
Prerequisite: CA 163B. This course is a continuation of CA 163B. Students will practice all fundamentals of baking and pastry skills learned in the entire course sequence, and expected of a working baker/pastry chef in the industry. This course will focus on specialty dessert techniques and ingredients.

CA 175 Foodservice Sanitation and Safety .......................... 2 credits
This course presents the basics of food service sanitation. The text examines a systematic approach to sanitation management by the use of control points and effective use of multiple resources. The NRAEF ServSafe Certificate will be issued upon successful completion of the NRAEF Exam.

CA 176 Concepts of Taste and Flavour .......................... 3 credits
Prerequisite: CA majors "2-year program" only. This class will introduce students to the vocabulary and concepts of what we term “flavour”. Students will explore how these concepts interplay between food items and between food and beverages.

CA 200 Menu Management ........................................ 3 credits
CAHM majors only. This course will enable the student to apply menu planning principles as an indispensable management tool for a variety of food service operations.

CA 280 Co-op Ed: Culinary Arts, Second Year ....................... 7 credits
Prerequisite: CA majors only. This course provides the student with culinary arts-related work experience in community and organizations. The student will have the opportunity to integrate theory and practice gained in the classroom with practical experience in the professional world.

CA 292 Advanced Cooking Theories 1 ....................... 7 credits
Prerequisite: CA 163. Contemporary and advanced food preparation emphasizing the cold kitchen, garde manger. Students practice and serve dishes to the public in the student-run dining room, rotating through restaurant and kitchen positions, developing, planning and serving a garde manger-themed dinner menu.

CA 293 Advanced Cooking Theories 2 ....................... 7 credits
Prerequisite: CA 292. Contemporary and advanced food preparation, emphasizing international cuisine. Students practice and serve traditional dishes from many countries to the public in the student-run dining room, rotating through restaurant and kitchen positions, developing, planning, and serving an International-themed dinner menu.

CA 294 Advanced Cooking Theories 3 ....................... 7 credits
Prerequisite: CA 293. Contemporary and advanced food preparation, emphasizing American regional cuisine. Students practice and serve traditional dishes from many American regional cultures to the public in the student-run dining room, rotating through restaurant and kitchen positions, developing, planning and serving an American regional-themed dinner menu.

HRTM 205 Managing the Restaurant Operation ....................... 3 credits
This course examines all aspects of a full-service restaurant operation. Students will be introduced to menu planning, beverage management, service, culinary arts, food safety, and sanitation principles. Current industry trends, such as organic food, buying local and environmental management will also be covered.

Dance

Also see Physical Education

For information about classes with course numbers that begin with:
D - Contact the Music, Dance and Theatre Arts Department, Bldg. 6/Rm. 204, 541.463.3108.
PE - Contact the Health and PE Division, Bldg. 5/Rm. 205, 541.463.5345.

D 152 Dance Basics ........................................ 2 credits
This course introduces basic techniques of dance for students who
have never taken a technique class. The course presents alignment principles, weight shifts, level changes and elements of movement such as use of rhythm, shape and dynamics. Students develop a stronger foundation in dance so they can proceed in their training in ballet, modern or jazz. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 153 Pilates Mat Work .............................................................2 credits
This course explores the Pilates method of body conditioning, a unique system of stretching and strengthening exercises. Students gain strength, flexibility and balance through specific exercises which emphasize uniting the body and mind. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 154 Pilates Mat Work 2 .............................................................2 credits
This course builds on the fundamentals of Pilates with more advanced exercises. Students gain strength, flexibility and balance through specific exercises which emphasize uniting the body and mind. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 160 Dance Composition .......................................................3 credits
Prerequisite: D 257 Composition techniques are learned and applied, with specific emphasis on form, quality, spatial relationships, and rhythmic manipulation. Students in this course may present their work in the annual production of "The Works" Student Dance Concert. This is a required course for dance majors, and meets the Arts and Letters requirement for the AAOT degree. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits. Offered fall term only.

D 161 Gyrokinesis .................................................................2 credits
Gyrokinesis exercises work the entire body through use of fluid spiral movement. Joints and muscles gently work through rhythmic spiraling and undulating movements, which invigorate the body. Gyrokinesis is smooth, connected, fluid postures which unite in the use of breath. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 169 Musical Theater .............................................................2 credits
Students are introduced to basic dance theories and techniques for musical theater. Choreographed sequences from contemporary and traditional Broadway musicals, focusing on interpretation and character study, are learned throughout the term. Previous dance experience is helpful but not required. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 171 Contact Improvisation .....................................................2 credits
Fundamental concepts of Contact Improvisation will be introduced, explored, including weight sharing, release technique, counterbalance, rolling point, falling, inversions, and lifts. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 172 Dancing the Fluid Body ..................................................2 credits
This course explores the concepts of Continuum Movement through specific breath and sound techniques, wave motion, spiral movements which vary from subtle micro-movements to dynamic full-bodied expression. Discussions of the body in relation to culture, anatomy, and ecology are springboards for movement explorations. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 173 African Dance ..............................................................2 credits
This class is an introduction to African dance. Students learn contemporary and traditional dances from Guinea while exploring rhythm and movement within the cultural context of community. Relevant history is explored through assigned readings, video, and class discussions. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 175 Tap Dance Beginning .....................................................2 credits
This course covers the basics of rhythm, including tempo, batter, accent, syncopation, and musical structures of beginning Tap. Improvisational skills are developed as students integrate their understanding of tap with a sense of musicality and performance. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 176 Fluid Yoga .................................................................2 credits
This course explores traditional yoga postures and practices with emphasis on breath, fluid non-static postures. Students develop a yoga practice that encourages creativity and expression. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 177 Modern Dance 1 ............................................................2 credits
This beginning level class for dancers with little or no previous dance experience, accommodates the pre-major and non-major student. Modern dance technique is introduced with focus on three-dimensional use of the spine and torso, joint articulation and mobility, core strength, expressivity and spatial awareness. Given realistic progressive development, students will repeat this level three times before advancing to Modern 2. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 178 Modern Dance 2 ............................................................2 credits
This intermediate level class accommodates the pre-major and non-major student. Students further develop their awareness of modern dance technique and vocabulary. Training continues with dance movements that incorporate: three-dimensional use of the spine and torso, joint articulation and mobility, core strength, expressivity and spatial awareness. Given realistic progressive development, students will repeat this level for a full year or more. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 183 Body/Mind Stretch and Relaxation ..................................2 credits
This course explores the body-mind connection through stretch and relaxation exercises and techniques. Students learn to increase personal awareness of their body and to integrate the body and the mind in movement. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 184 Hip Hop 1 .................................................................2 credits
This introductory course explores Hip Hop dance vocabulary and style. Students learn body isolations, rhythmic patterns, and dance combinations. Students should be in good condition without chronic injuries. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 185 Ballet 1 .................................................................2 credits
For dancers with little or no previous dance experience, this beginning level course accommodates the pre-major and non-major student. This course presents the fundamental principles and vocabulary of classical ballet with focus on correct body alignment and musicality. Given realistic progressive development, students repeat this level three times before advancing to Ballet 2. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 186 Ballet 2 .................................................................2 credits
This intermediate level course accommodates the pre-major and non-major student. This course develops the student's alignment, coordination and musicality. Students are introduced to more challenging center floor phrases, adagios, petit allegros and grande allegros. Given realistic progressive development, students repeat this level three times before advancing to Ballet 3. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 6 total credits.

D 187 Ballet 3 .................................................................2 credits
This intermediate-advanced level class accommodates the pre-major and non-major student. Focus is on technical execution, musicality and line. Class work builds on the student's vocabulary through more advanced center floor phrases, adagios, petit allegros and grande allegros. Given realistic progressive development,
students repeat this level for three terms. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 6 total credits.

D 188 Jazz Dance 1 ......................................................... 2 credits
This beginning level class accommodates the pre-major and non-major student. Students learn and incorporate syncopation of body parts, dynamics, and spatial and rhythmical variations. Students are encouraged to take ballet and modern to augment their jazz training. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 189 Jazz Dance 2 ......................................................... 2 credits
This beginning-intermediate level class accommodates the pre-major and non-major student. Training continues with jazz concepts that incorporate syncopation of body parts, dynamics, and spatial and rhythmical variations. Students are encouraged to take ballet and modern to augment their jazz training. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 191 Hip Hop 2 ......................................................... 2 credits
This intermediate level course explores Hip Hop dance vocabulary and style. With emphasis on athleticism in dance, body isolations, intricate rhythmic patterns, and mastering dance combinations, students are expected to be in good condition free of chronic injuries. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 196 Balinese Dance ..................................................... 2 credits
This course explores Balinese Dance in relation to art, spirituality, and culture. Students learn traditional dance vocabularies and historical significance, and their importance in contemporary Balinese life. Globalization and Western cultural influences will be addressed. No prior dance experience necessary. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 251 Looking at Dance ................................................. 4 credits
This fun and enriching course focuses on various cultural and historical perspectives of dance. From Hip Hop to Classical Ballet, from Folk dance to World dance, students explore dance as an art form in its expressive, communicative, and aesthetic aspects. Students develop an understanding and appreciation for dance as a performing art. Meets Arts and Letters requirement for the AAOT degree. Writing 121 recommended. Offered winter term only.

D 256 Body Fundamental/Body as Knowledge ........................................ 4 credits
Introduction to body systems, muscular, skeletal, organ, fluid, nervous, fascial and endocrine system. Re-patterning movement is introduced through various somatic disciplines such as: Bar terraini eff fundamentals, Laban Movement Analysis, Ideokinesis, and Body Mind Centres, including Developmental Movement. Value is placed on embodiment of anatomy through movement, touch and imagination to gain insight into functions and movement potential. A required course for dance majors and a beneficial class for everyone. Meets Arts and Letters requirements for the AAOT degree and satisfies a University of Oregon dance major pre-requisite. Required for Dance majors. Offered fall term only.

D 257 Dance Improvisation ............................................... 2 credits
This course focuses on exploring and creating new movement through dance improvisation in a fun inviting atmosphere. Students work in solos, duets, and groups, to develop spontaneity, confidence, and awareness, as they experience dance as a creative process. This course is a pre-requisite for D160 and D260. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 260 Group Choreography ............................................. 3 credits
Prerequisite: D 160 and D 257. Group Choreography tools and techniques are learned and applied. Emphasis is placed on dynamics, special relationship, clarity and form. Students learn to articulate personal responses to choreographic projects, while supporting creativity and individuality. May be used to meet Arts and Letters requirement for the AAOT degree. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits. Offered winter term only.

D 261 Dance Rehearsal and Performance .................................................. 1-3 credits
Designed to provide practical application of classroom theory and skills, this course is taken by participants in our annual dance concerts performance. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

ED 225 Multiple Intelligences-Motion ........................................... 3 credits
Using the latest findings in brain research, this dynamic course invites participants to approach creative movement as an essential tool for cognitive, social and emotional learning for children of all abilities. With a focus on sequential, comprehensive and integrative curriculum, participants define, explore, and create best practices in education for every child. No prior dance experience necessary. Arts and Letters. Offered spring term only.

PE 187B Ballroom Dancing .............................................. 1 credit
Introductory course in the basics of social dance forms including Waltz, Fox Trot, Swing, Rumba and Cha Cha. Emphasis on good dance posture and frame, and proper lead and follow technique. Open to all students; no prior dance experience necessary.

PE 187M Latin Dancing .................................................. 1 credit
Introductory course in the basics of Latin dance forms including Salsa, Cha-Cha, Rumba, American Tango, Cumbia, and Merengue. Emphasis on good dance posture and frame, and proper lead and follow technique. Open to all students; no prior dance experience necessary.

PE 187P Salsa Dancing .................................................... 1 credit
Introductory course gives basic instruction in single and triple-time steps and dynamics, and introduces students to West Coast Swing, Mambo, and Salsa. Emphasis on good dance posture and frame, proper lead and follow technique and Latin hip motion. Open to all students; no prior dance experience necessary.

PE 187S Swing Dancing ................................................... 1 credit
Introductory course gives basic instruction in single and triple-time footwork, isolations, spatial awareness, and rhythmic variations. Students are expected to be in good condition free of chronic injuries. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 225 Multiple Intelligences-Motion ........................................... 3 credits
Using the latest findings in brain research, this dynamic course invites participants to approach creative movement as an essential tool for cognitive, social and emotional learning for children of all abilities. With a focus on sequential, comprehensive and integrative curriculum, participants define, explore, and create best practices in education for every child. No prior dance experience necessary. Arts and Letters. Offered spring term only.

Dental Assisting
For information, contact the Health Professions Division, Bldg. 4/Rm. 222, 541.463.5617. You must be accepted into the Dental Assisting program to take these classes.

DA 102 Advanced Clinical Experiences ......................................... 3 credits
Must be enrolled in the Dental Assisting Program. Knowledge and skills taught throughout the program are utilized as students apply a variety of expanded function chairside assisting and client care skills.

DA 103 Dentistry Law and Ethics ............................................. 2 credits
Course content includes the development of dentistry and its related professions. Covers ethics and jurisprudence for dental professionals. A study of the Oregon Dental Practice Act, roles of the dental health team and an introduction to the dental office environment are also included in this course. This course is taught online.

DA 107 Dental Health Education 1 ....................................... 1 credit
Prerequisite: Currently enrolled in the Dental Assisting Program. This course covers the basic concepts of preventive dentistry including the study of plaque-related diseases, fluoride therapy, brushing and flossing techniques.

DA 108 Dental Health Education 2 ....................................... 3 credits
Must be enrolled in Dental Assisting program. This course covers the practical application of preventive dentistry concepts. Includes patient motivation, coronal polishing, fluoride application, nutritional counseling, the recognition of normal and abnormal oral conditions and community service programs.

DA 110 Health Sciences .................................................. 3 credits
The study of structure and function of the human body. Bacteriology and microbiology, are discussed. + The first two terms of Anatomy and Physiology (passed with a grade of C or better) can be substituted for this course. This course is taught online.

DA 115 Dental Anatomy ................................................... 3 credits
Prerequisite: Currently enrolled in the Dental Assisting Program. This course covers the study of head & neck anatomy with emphasis on individual teeth and tooth surfaces using the universal numbering system.

DA 192 Dental Materials ................................................... 3 credits
Prerequisite: Currently enrolled in the Dental Assisting Program. Course content covers the composition, clinical properties, preparation, use and storage of materials, and study model construction used in dentistry.

DA 193 Dental Materials 2 ................................................ 3 credits
Must be enrolled in the Dental Assisting Program. Course covers
completion of laboratory procedures from DA 192 associated with dental specialties, such as amalgam and composite, die construction, retainers, bleaching trays, temporary crowns & restorations, and custom trays.

DA 194 Dental Office Procedures ..................................................... 3 credits
Prerequisite: Currently enrolled in the Dental Assisting Program. Principles of appointment planning, telephone techniques, case presentation, and management of client accounts. Teaching is done in a computer lab to support computerized instruction

DA 195 Chairside Procedures 1 ......................................................... 6 credits
Must be enrolled in the Dental Assisting Program. Course covers chairside assisting procedures, such as preparation of client, oral evacuation techniques, instrument exchange, dental examinations, & operative dentistry. Asepsis & infection control are included.

DA 196 Chairside Procedures 2 ......................................................... 7 credits
Prerequisite: Currently enrolled in the Dental Assisting Program. Course covers signs & symptoms of medical emergencies that may occur in the dental office. Specialties of dentistry, principle procedures, instrument set-ups, and clinical experience are also included.

DA 206 Co-op Ed: Dental Assisting Seminar .................................... 1 credit
Must be enrolled in the Dental Assisting program. This class must be co-enrolled with DA 280. Students will increase their understanding of industry expectations while developing job search tools and skills. Students will learn and practice presenting themselves to employers in a competent and professional manner in preparation for a cooperative education internship and, ultimately, a professional career in dental assisting.

DA 210 Dental Radiology 1 ............................................................. 4 credits
Must be enrolled in the Dental Assisting Program. Course covers background, terminology, & physics associated with exposing radiographs. Health, safety measures and legalities are included. Exposing technique, processing, mounting and critiquing are covered in lecture and lab.

DA 211 Dental Radiology 2 ............................................................. 2 credits
Must be enrolled in the Dental Assisting Program. Continuation of DA 210. Provides basis for occlusal film projections, digital radiology and extra-oral radiographs. Students apply all skills learned in Fall term, and progress to exposure of radiological films on clinical patients.

DA 280 Co-op Ed: Dental Assisting .................................................. 5-12 credits
Prerequisite: Enrollment in DA Program. Course provides dental assisting work experience in community businesses. Includes opportunity to integrate theory and practice. Student may develop skills & explore career options.

EL 115H Effective Learning: Health Science Majors ......................... 3 credits
This course is designed for health occupation majors who wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, and make visual study tools. Course work requires college-level reading skills.

Dental Hygiene

For information, contact the Health Professions Division, Bldg. 4/Rm. 222, 541.463.5617. You must be accepted into the Dental Hygiene program to take these classes.

DH 107 Dental Infection Control and Safety .................................... 1 credit
Prerequisites: Instructor Permission Introduction to the chain of infection, infectious and plaque associated diseases affecting the dental office environment and protection of the health care worker. Topics include bloodborne pathogens, federal regulations, dental office clinical asepsis protocol, LCC Exposure Control Program, management of waste, office safety programs, chemical and emergency plans. Competency in Infection Control protocols are evaluated during laboratory sessions. May be offered online.

DH 113 Dental Anatomy and Histology ........................................... 2 credits
Prerequisite: Admission to the DH Program or consent of instructor. The study of dental histology and morphology of the teeth and surrounding soft tissues. May be offered online.

DH 118A Clinical Dental Hygiene 1 .................................................. 4 credits
Prerequisites: Dental hygiene program or instructor consent. Co-requisites: DH118A and DH118B taken together and require simultaneous registration. Introduction to basic instrumentation, assessment procedures, and clinical protocol for dental hygiene care. May be offered online.

DH 118B Clinical Dental Hygiene 1 Lab .......................................... 2 credits
Clinical Lab required for DH 118A.

DH 119A Clinical Dental Hygiene 2 .................................................. 3 credits
Prerequisites: Admission to program or instructor consent. Co-requisites: DH119A and DH119B are taken together and require simultaneous registration. Continuation of preclinical skills in instrumentation, evaluation of clients, treatment planning and client education. Didactic, laboratory and clinical instruction, with emphasis on removal of deposits, preparation for clients and the application of preventive dental procedures. Cleft and craniofacial patients with the child, adolescent and adult patient with limited periodontal needs. May be offered online.

DH 119B Clinical Dental Hygiene 2 Lab .......................................... 4 credits
Clinical Lab required for DH 119A.

DH 120A Clinical Dental Hygiene 3: Lecture/seminar ...................... 3 credits
Prerequisites: Admission to DH Program or instructor consent. Co-requisites: DH220A and DH220B are taken together and require simultaneous registration Lecture, instructional lab and clinical course focusing upon the dental hygiene process of care, advanced instrumentation techniques and treatment of the slight to moderate periodontal patient. May be offered online.

DH 120B Clinical Dental Hygiene 3 Lab .......................................... 4 credits
Clinical Lab required for DH 120A.

DH 132 Dental Materials for the Dental Hygienist ............................ 2 credits
Prerequisites: Enrollment in DH Program or Instructor Permission. Composition, properties and manipulation of dental materials. Laboratory and clinical experience with dental materials. May be offered online.

DH 139 Special Needs Dental Patient .............................................. 2 credits
Prerequisite: Enrolled in D H Program/Instructor Permission. Knowledge and skill development in assessment, diagnosis, planning and treatment of dental patients with developmental disabilities, complex medical problems and significant physical limitations. Development of critical thinking and problem solving skills in the care of patients with special needs, prevention of emergencies and selection of treatment. May be offered online.

DH 210A Clinical Dental Hygiene 3:Lecture/seminar ....................... 4 credits
Prerequisites: Admission to DH Program or Permission of Instructor Co-requisites: DH220A and DH220B are taken together and require simultaneous registration Lecture, instructional lab and clinical course focusing upon the dental hygiene process of care, advanced instrumentation techniques and treatment of the moderate to advanced periodontal patient. May be offered online.

DH 220A Clinical Dental Hygiene 4: Lecture/seminar ..................... 2 credits
Prerequisites: Admission to DH Program or Instructor permission Co-requisites: DH221A and DH221B are taken together and require simultaneous registration Lecture, instructional lab and clinical course focusing upon the dental hygiene process of care, advanced instrumentation techniques and treatment of the moderate to advanced periodontal patient. May be offered online.

DH 221B Clinical Dental Hygiene 5 Lab .......................................... 6 credits
Clinical Lab required for DH221A.

DH 222A Clinical Dental Hygiene 6 .................................................. 2 credits
Prerequisites: Admission in D H Program or instructor permission Co-requisites: DH222A and DH222B are taken together and require simultaneous registration Lecture, instructional lab and clinical course focusing upon continuation of the theory and practice of the dental hygiene process of care, including advanced instructional theory and practice in therapeutic interventions for comprehensive dental hygiene care. May be offered online.

DH 222B Clinical Dental Hygiene 6 Lab .......................................... 5 credits
Clinical Lab required for DH222A.

DH 228 Oral Biology 1 ................................................................. 4 credits
Prerequisite: Admission to the DH Program or consent of instructor Identify, describe, and locate the bones of the skull, muscles, cranial nerves, blood vessels, and lymphatics of the head and neck; glands of the oral cavity; the tongue, the temporomandibular joint; and the
alveolar processes. The student will also be able to explain and recognize terms and processes related to the development of the head, face and oral cavity. May be offered online.

DH 229 Oral Pathology for the Dental Hygienist..................3 credits

Prerequisite: Admission to the DH Program or consent of instructor. Continuation of Oral Roentgenology 1. Radiologic interpretive knowledge and skills are introduced as a diagnostic aid to assist with dental hygiene diagnoses. Patient management skills, pedodontic, edentulous, occlusal, panoramic and accessory radiographic techniques are included. Intraoral panoramic and digital radiography on patients and practicing film interpretation skills on completed client radiographs. May be offered online.

DH 243A Oral Roentgenology 1 Lab........................................1 credit

Lab required for DH 243A.

DH 244A Oral Roentgenology 2 ............................................1 credit

Prerequisite: Admission to the DH Program or consent of instructor. Co-requisite: DH 244A and DH 244B are taken together and require simultaneous registration. Historical background, terminology; concepts and principles of x-ray, x-ray generation, radiologic health and safety measures; normal and pathographic dental anatomy; radiographic legalities. Film technique, including critiquing, exposing, processing, and mounting. Laboratory provides skills in dental radiographic exposure on manikins as well as processing techniques. May be offered online.

DH 243B Oral Roentgenology 1 Lab........................................1 credit

Clinical Lab. Lab required for DH 243A.

DH 270 Periodontology ....................................................2 credits

Prerequisites: Enrolled in DH Program or instructor permission. The study of the normal periodontium, periodontal pathology, etiology and principles of periodontal disease, examination procedures, principles of periodontal therapy, nonsurgical periodontal therapy and preventive modalities. American Academy of Periodontology classifications of periodontal disease, maintenance considerations and referral for specialized periodontal care are presented. May be offered online.

DH 271 Periodontology 2..................................................1 credit

Full Prerequisites: Accepted in DH Program or instructor permission. Treatment of the moderate to advanced periodontal patient, selection of surgical procedures and maintenance. The course reviews periodontal therapy, restorative considerations, occlusion and TMJ disorders, periodontal surgery, dental implant and maintenance, periodontal emergencies and a review of evidence based periodontal research. Specialty office visit to observe treatment modalities. May be offered online.

DH 275 Dental Hygiene Restorative Functions 1..................2 credits

Admission in Dental Hygiene Program or Instructor Permission. Restorative Functions 1 content includes toothfamier placement, wedge, etiology of the decay process, cavity preparation, properties of amalgam, maintenance of dental anatomy, occlusal considerations, and amalgam placement and finishing. Laboratory and clinical practice for skill development. May be offered online.

DH 276 Restorative Functions 2........................................1 credit

Prerequisites: Admission in Dental Hygiene Program or Instructor Permission. Restorative Functions 2 content includes amalgam polishing, direct placement of esthetic materials composition and classification; handling, placement and finishing; light cure techniques; and anatomical considerations for anterior and posterior composite placement. Laboratory and Clinical Practice for skill development. May be offered online.

DH 280 Co-op Ed: Dental Hygiene.................................3-12 credits

This course provides the student with dental hygiene work experiences in community businesses and organizations. The student will have the opportunity to integrate theory and practice gained in the classroom with practical experience in the professional world.

EL 115H Effective Learning: Health Science Majors........3 credits

This course is designed for health occupation majors who wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, and make visual study tools. Course work requires college-level reading skills.

Design - See Art, Studio and Graphic Design

Diesel and Heavy Equipment

For information, contact the Advanced Technology Division, Bldg. 12/Rm. 201, 541.463.5380.

DS 154 Heavy Duty Braking Systems.................................1-12 credits

This course covers technical information and shop projects necessary for the practical application and understanding of theories and principles used in the operation, diagnosis, testing, failure analysis, and repair of heavy duty braking systems. Technical information and shop projects to apply and understand theories and principles include: fundamentals of braking and applied preventive maintenance program - trucks/tractors; disk/cam brake systems; anti-lock air brake systems; heavy duty wedge brakes; power assist units; truck/tractor air brake system components; and diesel engine and exhaust brakes and retarders in on and off highway heavy duty equipment.

DS 155 Heavy Equipment Hydraulics...............................1-12 credits

This course covers technical information and shop projects necessary for the practical application and understanding of theories and principles used in the operation, diagnosis, testing, failure analysis, and repair of mobile and stationary hydraulic systems. This includes the following: technical information and shop projects to apply and understand theories, principles and applications: introduction to hydraulics; system components; reservoirs, seals, filters, pumps, accumulators, oil coolers, pressure, flow and directional control valves, linear and rotary actuators, connectors, conductors, circuits, ANSI and ISO symbols and schematics, manually controlled hydraulic systems, pilot controlled hydraulic systems and electronically controlled hydraulic systems.

DS 158 Heavy Equipment Chassis and Power Trains.........1-12 credits

Operation of on and off highway automatic transmissions, diagnosing, testing fluid couplings and torque converters, and repair of heavy equipment chassis and power trains. Technical information
and shop projects to apply and understand theories and principles include: frames; suspensions; conventional steering systems; track-type undercarriages; final drives and steering mechanisms; clutches; standard transmissions, on and off highway automatic transmissions; drive lines; front- and rear-drive carrier units; heavy-duty tires, wheels, and rims; and wheel hubs, dead and live axles of on and off highway diesel equipment.

**DS 256 Diesel and Auxiliary Fuel Systems** .................................. 1-12 credits
This course covers technical information and shop projects necessary for the practical application and understanding of theories and principles used in the operation, diagnosing, testing, and repair of diesel and auxiliary fuel systems. Technical information and shop projects to apply and understand theories and principles include: diesel fuel systems, diesel fuel systems including mechanical and electronic diesel engine controls; and diesel engine performance analysis of on and off highway current model engines.

**DS 257 Diesel Electrical Systems** ............................................. 1-12 credits
This course covers technical information and shop projects necessary for the practical application and understanding of theories and principles used in the operation, diagnosing, testing, and repair of diesel and auxiliary fuel systems. Technical information and shop projects to apply and understand theories and principles include: diesel fuel systems, diesel fuel systems including mechanical and electronic diesel engine controls; and diesel engine performance analysis of on and off highway current model engines.

**DS 259 Diesel Engines and Engine Overhaul** .............................. 1-12 credits
This course covers technical information and shop projects necessary for the practical application and understanding of theories and principles used in the operation, diagnosing, testing, and repair of diesel engines and engine overhaul. This includes: development of the diesel engine; diesel engine operating principles; combustion chamber design and function; the cylinder block; cylinder head and components; crankshaft, main bearings, vibration damper and flywheel; pistons, rings, and connecting rod assembly; camshaft and timing gears; lubrication systems and lube oil; cooling systems and coolant; air intake systems; exhaust systems and emissions; hand tools used in the disassembly, reassembly and overhaul adjustment, precision measuring tools and shop equipment; engine disassembly, reassembly, diagnosis, troubleshooting, and engine rebuilding.

**DS 260 Lift Truck/Material Handling Equipment** .......................... 1-12 credits
This course covers technical information and shop projects necessary for the practical application and understanding of theories and principles used in the operation, diagnosing, testing, and repair of lift trucks and other material handling equipment. This includes the mast/uppert, transmission, diesel engine, gas engine, propane engine and electric powered lift trucks, electric controller, periodic maintenance, and schematics.

**DS 280 Co-op Ed: Diesel** ........................................................... 3-12 credits
This course provides students with diesel-related learning in community businesses and organizations as well as to integrate theory and practice gained in the classroom with practical experience in the professional world. Students may develop skills, expand career options and network with professionals and employers while earning college credit toward a degree.

**Drafting**
For information, contact the Advanced Technology Division, Bldg. 12/Rm. 201, 541.463.5380.

**DRF 121 Mechanical Drafting** ................................................. 4 credits
Prerequisite: DRF 142 and DRF 167. An introduction to the ASME Y14.5 Dimensioning and Tolerancing standard. Develops basic skills in mechanical drafting, including dimensioning, section, and auxiliary views. Students will improve drafting quality and develop drawing production speed.

**DRF 137 Architectural Drafting-Plans** ....................................... 4 credits
Prerequisite: DRF 167 And DRF 208 Or Instructor Consent. Architectural drafting techniques, methods and procedures, layout and drafting of standard residential working drawings for a 1,200 sq. ft. building.

**DRF 142 Graphic Concepts** ..................................................... 2 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Introduction to computer-aided drafting using AutoCAD or equivalent software in architectural and mechanical drafting. Text and dimensioning in more depth, Paper Space setup and plotting, references and blocks, and some customizing tools. May be offered online.

**DRF 167 CAD 1** ...................................................................... 4 credits
Prerequisite: Minimum reading score of 88 OR RD 080 OR RD 087 And EL115 OR Prior College. Introduction to computer-aided drafting using AutoCAD or equivalent software in architectural and mechanical drafting. Text and dimensioning in more depth, Paper Space setup and plotting, references and blocks, and some customizing tools. May be offered online.

**DRF 168 CAD 2** ...................................................................... 4 credits
Prerequisite: DRF 167. Intermediate course in computer-aided drafting using AutoCAD or equivalent software in architectural and mechanical drafting. Text and dimensioning in more depth, Paper Space setup and plotting, references and blocks, and some customizing tools. May be offered online.

**DRF 203 Electrical Drafting** ....................................................... 2 credits
Prerequisite: DRF 167. Drafting techniques required for electrical and electronic fields. Schematics, wiring and routing diagrams, logic and printed circuit layout design and drawings.

**DRF 205 Drafting: Structures** ................................................... 4 credits
Prerequisite: DRF 167, MTH 076 and MTH 086 or instructor consent. Graphical methods to investigate forces applied to rigid bodies at rest, including beams and trusses. The course covers types of structures carry loads, vectors, moment, equilibrium, and the construction of load, shear, and moment diagrams for simple beams. Students will use CAD for graphical solutions; students without CAD skills who are able to use trigonometry for problem solving may also enroll in this class.

**DRF 206 Co-op Ed: Drafting Seminar** ....................................... 2 credits
Prerequisite: DRF 168. Students will increase their understanding of industry expectations as they develop job search tools and skills. Course is designed to help students present themselves to employers in a competent and professional manner and to move initially into their cooperative education internships and then into their professional careers.

**DRF 207 Drafting: Strength of Materials** ................................... 4 credits
Prerequisite: MTH 076, MTH 086, and DRF 205. Stresses and strains that occur within bodies; material properties including elasticity; shape properties including centroids, moments of inertia, and section modulus; flexural stress in beams; and buckling in columns.

**DRF 208 Residential Buildings** .............................................. 4 credits
Prerequisite: DRF 167. An investigation of light frame construction techniques and the production of residential construction drawings. Topics: residential construction materials, components and systems related to wood frame structures. Students will work from sketches of a residential structure to produce detail drawings.

**DRF 210 Commercial Buildings** .............................................. 4 credits
Prerequisite: DRF 137, DRF 167, and DRF 208. Fundamentals of building materials, construction techniques, processes and procedures used in commercial structures. Students examine the creation of construction documents and working drawings for a light commercial building project.

**DRF 211 Mechanical Systems and Environmental Design...** 4 credits
Prerequisite: WR 121. Fundamental principles and technologies of mechanical systems in buildings, including energy, water, lighting, heating, ventilation, and air conditioning. Emphasis is on green building strategies.

**DRF 220 Building Information Modeling** ................................... 4 credits
Prerequisites: DRF 167. The student will create a virtual building using an advanced computer-aided drafting/design program that utilizes a 3D feature-based parametric solid modeler. The students will then generate a bill of materials, create a photo-realistic rendering, and produce a set of drawings to include floor plans, elevations, sections, and details. May be offered online.

**DRF 232 Mechanical Design** ................................................... 4 credits
Prerequisite: DRF 121, DRF 142, and DRF 167. Methods used in creating mechanical drawings, including weldments, fasteners, assembly drawings, bills of material, and revisions.
DRAFTING - Early Childhood Education

DRF 233 Geometric Tolerancing
4 credits
Prerequisite: DRF 121, DRF 142, and DRF 167. Detailed study of the geometric tolerancing portion of the current ASME Y14.5 Dimensioning and Tolerancing standard.

DRF 234 Power Trains and Accessories Design
4 credits
Prerequisite: DRF 121, DRF 142, and DRF 167. A study of mechanisms for transmitting power: four-bar linkages, cams, gears, V-belts, and roller chain. Includes kinematic schematics, cam displacement diagrams, gear drawings, gear ratios, and design of V-belt and chain drives.

DRF 245 Solid Modeling
3 credits
Prerequisite: DRF 167. Fundamentals needed to create and edit part and assembly models. Topics include: Creating Sketched Features, Adding Piping Features to Parts, Assembly Modeling Fundamentals, Advanced Design Tools and Creating Parts Lists.

ENGR 280D Co-op Ed: Drafting
3-12 credits
Gain on-the-job learning experience as a draftsman in local business, industry and governmental sites. Develop skills, explore career options, and network with professionals and employers while earning college credit. Meet with the co-op coordinator the term before (if possible) to set up the internship.

Drama - See Theatre Arts

Early Childhood Education

For information, contact the Child and Family Education Department, Bldg. 24, 541.463.5619.

ECE 105 Health and Safety Issues in Early Childhood Education
2 credits
Introduction to health and safety practices in early childhood education environments for children 6 weeks through 6 years. Students will learn to guide children's understanding of healthy and safety through developmentally appropriate practices. Recognizing/Reporting Child Abuse/Neglect required to pass.

ECE 110 Observing Children's Behavior
1 credit
Prerequisite: WR 115 or WR 121 or WR 122. Study of objective techniques for observing and recording children's behavior. Some focus on linkages between observing and curriculum planning. Class is primarily a lecture format that includes on-site observations.

ECE 120 Introduction to Early Childhood
2 credits
Prerequisite: WR 115 or WR 121 or WR 122. Required course for ECE majors. Course is designed to give an overview of the field of early childhood education. It explores career options, types of programs, history, advocacy and personal qualities of successful child care professionals.

ECE 130 Guidance of Young Children
3 credits
Prerequisite: WR 115, WR 120, WR 121, or WR 122. Study of the adult-child differences, value of play, and appropriate guidance of children aged birth through five years: Development of discipline and guidance, social and emotional behavior patterns, daily routines. Instruction regarding child behavior and positive guidance techniques will be given through lectures, visual presentations, and classroom discussions.

ECE 140 Theory & Supervised Teaching 1
3 credits
Designed to provide the student with actual experience in the supervision, guidance, and care of young children based on the standards of NAEYC for Early Childhood Professional Preparation. This is work experience in a lab school child care facility. Students have specific assignments and responsibilities and must demonstrate competencies for a grade. They are given the opportunity to observe appropriate curriculum and have increasing responsibility to plan and carry out age-appropriate curriculum activities. They learn to demonstrate consistent appropriate guidance and developmentally appropriate curriculum. Minimum credit sign up—see division.

ECE 170 Infants and Toddlers Development
4 credits
Prerequisite: WR 115 or WR 121 or WR 122. The course is designed to examine the growth and development of infants and toddlers. Optimum infant and toddler development and safety will be studied. Lectures, in-class discussions, and visual media offer a varied presentation.

ECE 210 Applying Early Childhood Curriculum
4 credits
Prerequisites: ECE 160. Study and evaluation of various approaches to Early Childhood Education, including cognitive, emergent, and unit-based programs and methods. Study of science methods and materials, movement and outdoor games is included. This is an advanced course in Early Childhood Education curriculum focusing on group care for young children. The prerequisite course is Exploring Early Childhood Curriculum: ECE 160. If this class is taken out of sequence, please see the instructor before continuing with the course.

ECE 230 Family, School, Community Relations
3 credits
Designed to help the student understand and develop methods and procedures for fostering effective family, school and community relations. Development of methods and techniques in preparation for and delivery of a parent conference, understanding how community agencies can best serve parents and children in relation to school programs, and practical experience in communication skills with parents.

ECE 240 Theory & Supervised Teaching 2
4 credits
Prerequisite: ECE 140 and ECE 160. Theory & Supervised Teaching 1. Designed to provide the student with actual experience in the supervision, guidance and care of young children based on the standards of NAEYC for Early Childhood Professional Preparation. This is work experience in a lab school child care facility. Students have specific assignments and responsibilities and must demonstrate competencies for a grade. They are given the opportunity to observe appropriate curriculum and have increasing responsibility to plan and carry out age-appropriate curriculum activities. They learn to demonstrate consistent appropriate guidance and developmentally appropriate curriculum. Minimum credit sign up—see division.

ECE 250 Infant and Toddler Environments
3 credits
Prerequisite: ECE 170 - Infants and Toddlers. For prospective infant-toddler educators. Course will include: a) how suitable materials and a carefully planned physical environment can enhance optimum development; b) how to staff a center appropriately; c) brief review of infant-toddler development; d) basic care giving techniques; e) how to plan activities; and f) resources and references.

ECE 253 Diversity Issues in Early Childhood Education
3 credits
Prerequisite: WR 115 or WR 121 or WR 122. This course explores the concept of human diversity in early childhood settings. It will specifically include an awareness and appreciation of issues of ability, belief, class, culture, gender, language, race, and family experiences as they affect the development of the young child and his or her family. An exploration of how children develop awareness and attitudes regarding diversity will be included. Students will also evaluate and develop appropriate materials and methods to increase children's awareness and appreciation of diversity.

ECE 260 Administration of Child Care Programs
3 credits
Prerequisite: ECE 141. An overview of administrative management issues in the establishment and operation of child care programs. Overall program planning, organizational structure, budgeting, personnel management and legal aspects of child care, including Oregon state licensing rules.

HDFS 226 Child Development
3 credits
Prerequisite: WR 115, or WR 120, or WR 121, or WR 122. Study of the physical, social-emotional, and intellectual development of the child from birth through adolescence. Some emphasis on prenatal development and influences. A survey of various child-study approaches. Instruction and experience in observing and recording the behavior of young children. Study of adult-child differences, value of play, and discipline. Required for ECE majors.

ECE 160 Exploring Early Childhood Curriculum
4 credits
Prerequisite: ECE 110. Students will gain understanding and experience in planning daily and weekly program activities for young children. There is emphasis on planning appropriate experiences based on observation of children and knowledge of early childhood learning strategies. Students will plan a variety of curriculum experiences which are developmentally appropriate for preschool-age children. Students will study types and benefits of play as the basis of curriculum planning. Included will be a study of math methods and materials.

ECE 170 Infants and Toddlers Development
4 credits
Prerequisite: WR 115 or WR 121 or WR 122. The course is designed to examine the growth and development of infants and toddlers. Optimum infant and toddler development and safety will be studied. Lectures, in-class discussions, and visual media offer a varied presentation.

ECE 210 Applying Early Childhood Curriculum
4 credits
Prerequisites: ECE 160. Study and evaluation of various approaches to Early Childhood Education, including cognitive, emergent, and unit-based programs and methods. Study of science methods and materials, movement and outdoor games is included. This is an advanced course in Early Childhood Education curriculum focusing on group care for young children. The prerequisite course is Exploring Early Childhood Curriculum: ECE 160. If this class is taken out of sequence, please see the instructor before continuing with the course.

ECE 230 Family, School, Community Relations
3 credits
Designed to help the student understand and develop methods and procedures for fostering effective family, school and community relations. Development of methods and techniques in preparation for and delivery of a parent conference, understanding how community agencies can best serve parents and children in relation to school programs, and practical experience in communication skills with parents.

ECE 240 Theory & Supervised Teaching 2
4 credits
Prerequisite: ECE 140 and ECE 160. Theory & Supervised Teaching 1. Designed to provide the student with actual experience in the supervision, guidance and care of young children based on the standards of NAEYC for Early Childhood Professional Preparation. This is work experience in a lab school child care facility. Students have specific assignments and responsibilities and must demonstrate competencies for a grade. They are given the opportunity to observe appropriate curriculum and have increasing responsibility to plan and carry out age-appropriate curriculum activities. They learn to demonstrate consistent appropriate guidance and developmentally appropriate curriculum. Minimum credit sign up—see division.

ECE 250 Infant and Toddler Environments
3 credits
Prerequisite: ECE 170 - Infants and Toddlers. For prospective infant-toddler educators. Course will include: a) how suitable materials and a carefully planned physical environment can enhance optimum development; b) how to staff a center appropriately; c) brief review of infant-toddler development; d) basic care giving techniques; e) how to plan activities; and f) resources and references.

ECE 253 Diversity Issues in Early Childhood Education
3 credits
Prerequisite: WR 115 or WR 121 or WR 122. This course explores the concept of human diversity in early childhood settings. It will specifically include an awareness and appreciation of issues of ability, belief, class, culture, gender, language, race, and family experiences as they affect the development of the young child and his or her family. An exploration of how children develop awareness and attitudes regarding diversity will be included. Students will also evaluate and develop appropriate materials and methods to increase children's awareness and appreciation of diversity.

ECE 260 Administration of Child Care Programs
3 credits
Prerequisite: ECE 141. An overview of administrative management issues in the establishment and operation of child care programs. Overall program planning, organizational structure, budgeting, personnel management and legal aspects of child care, including Oregon state licensing rules.
HDFS 227 Children Under Stress ........................................... 3 credits
Prerequisite: HDFS 226. Designed to acquaint the student with the social, economic, and cultural factors which contribute to a child's development. Experiences in such a way as to inhibit or enhance his/her best growth. Emphasis will be placed on the family, the educational system, and socio-cultural environments. Required for Early Childhood Education Majors.

HDFS 228 Young Children with Special Needs ........................ 3 credits
Prerequisite: WR 115, or WR 120, or WR 121, or WR 122. The development, needs, and behavior of preschool aged children with special needs. General and practical hints to help integrate children with special needs into childcare programs. An overview of inclusion, along with a focus on specific disabilities is covered, including autism spectrum disorder, speech and language, and attention deficit disorder.

HDFS 233 Parenting ............................................................... 3 credits
Provides an introduction to the many aspects of parenting including advantages and disadvantages, parenting roles, stages of parenthood, and special situations (single and step-parenting, extended families, and parenting exceptional children). The course format includes reading assignments from the textbook, forum discussions of reading, group project.

**Earth and Environmental Science**

For information, contact the Science Division, Bldg. 16/Rm. 156, 541.463.5446.

ENVS 181 Terrestrial Environment ........................................ 4 credits
Interactions among humans and natural land-based systems. Topics include terrestrial ecology, biodiversity, agriculture, rangelands, soils, groundwater, mineral and energy resources, waste disposal, recycling, ecological economics, conservation, and sustainable production. Take ENVS 181-183 in any order.

ENVS 182 Atmospheric Environment and Population ............ 4 credits
Interactions among humans and atmospheric and ecological systems. Topics include weather, weather hazards, climate, global warming, ice and glacier loss, desertification, biomes, population, urbanization, air pollution and ozone depletion. Presents sustainable choices. Take ENVS 181-183 in any order.

ENVS 183 Aquatic Environment .......................................... 4 credits
Freshwater and marine biology, geology, chemistry, and their interactions with humans. Topics include streams, watersheds, groundwater, aquatic biodiversity, fisheries, circulation, climate, water pollution, sustaining aquatic systems, energy from water and water resources. Take ENVS 181-183 in any order.

ENVS 184 Global Climate Change ...................................... 4 credits
Causes, consequences, geologic history and science of climate change, topics include sun-Earth cycles, greenhouse effect, ocean-atmosphere/ice systems, climate models and data, predictions, feedbacks, tipping points, carbon sequestration, energy options. Advise ENVS 182, G 102, or GEOG 141 first.

G 101 Earths Dynamic Interior .......................................... 4 credits
Introduces the geology of Earth's structure, formation of rocks, how plate interactions cause earthquakes and create volcanoes and mountains. Labs include problem solving, minerals, rocks, volcanology, seismology, resources, and simple geologic maps and structures. Take either G 101 or G 102 first.

G 102 Earths Dynamic Surface .......................................... 4 credits
Introduces the geology of Earth's surface and related hazards. Topics include erosion, deposition, weathering, soils, landslides, streams, groundwater, oceans, coasts, glaciers, climate, problem solving, topographic maps and remote sensing of landforms. Take either G 101 or G 102 first.

G 103 Evolving Earth .................................................... 4 credits
Surveys geologic history of Earth and life. Topics: sedimentary environments, strata, plant and animal evolution, how plate actions built continents and mountains, fossils, age relationships of rock layers, magnetism, unconformities, geologic maps and cross-sections. Advise G 101 or G 102 first.

G 146 Rocks and Minerals ................................................. 4 credits
Examines rocks, minerals, economic geology, resources, mining, environmental impacts, energy alternatives, resource conservation and problem solving. Labs explore how rocks, minerals and gems form, are classified, their symmetry, textures and structures, and how to decipher their geologic histories.

G 147 National Parks Geology ....................................... 4 credits
Introduces geologic history, plate tectonics, and landform formation in national parks and monuments, including western parks, among others. Topics include surface erosion, mountains, stream and glacial erosion, rocks, rock layers and structures, topographic and geologic maps. Advise another geology class first.

G 148 Geologic Hazards ............................................. 4 credits
Students learn the science, processes, causes and effects of geologic hazards, analyze the energy of earthquakes, volcanic eruptions, and meteorite impacts, the forces of landslides floods, and coastal erosion, the recurrence of these hazards, and study examples of local and national disasters and events.

G 201 Earth Materials and Plate Tectonics ......................... 4 credits
Geology 201, 202, 203—for science majors. Global plate tectonic influence on earthquakes, volcanoes, Earth's internal structure, mountains, deformation, magnetism, and formation of rocks. Explores minerals, geologic maps, geologic structures and resources. Take this course or G202 before G203.

G 202 Earth's Surface Systems ......................................... 4 credits
Surface geologic processes. Includes landforms and hazardous geologic systems, rocks and minerals, geologic and topographic maps, remote sensing, erosion, deposition, weather, soils, mass wasting, streams, groundwater, coasts, glaciers, deserts, climate and plate tectonics.

G 203 Evolution of the Earth ......................................... 4 credits
Prerequisite: Grade of C- or better in G 101 or G 102 or G 201 or G 202. How plate motions, climate change, and other factors influence the distribution and evolution of continents, mountain ranges and organisms through geologic time. Other topics: fossils, age relationships, isotopic age-dating, stratigraphy and analysis of complex regions using geologic maps and cross-sections.

G 280 Co-op Ed: Geology ........................................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of geology. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit.

G 280ES Co-op Ed: Environmental Studies .................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of environmental studies. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit.

GS 106 Physical Science .............................................. 4 credits
Prerequisite: MTH 052 or above with grade of C- or better or pass placement test or instructor's permission. GS106 surveys Earth and space sciences for non-science majors. Topics include geologic processes, time, hazards, atmosphere, and cosmology from asteroids, planets, stars, to galaxies and beyond. Labs include basic scientific techniques, mineralas, rocks, maps, and space imagery. Take GS 104, GS 105, GS 106 in any order.

GS 142 Earth Science: Earth Revealed ......................... 3-4 credits
Introduces geology and integrates topics of Earth's history, plate tectonics, minerals, rocks, volcanism, earthquake activity, weathering, rivers, groundwater, glaciers, and coasts. Optional 4th credit requires labs exercises completed at home. May be offered as a telecourse.

GS 147 Oceanography .................................................. 3-4 credits
Surveys basic geological, physical, chemical, and biological processes of oceans, including geology, plate tectonics, seawater properties, waves, currents, tides, ocean life, biodiversity, marine resources and pollution. Optional 4th credit requires lab exercises. May be offered as a telecourse.

GS 280ST Co-op Ed: Science Technology .................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of applied science. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit.

WST 230 Watersheds and Hydrology ......................... 4 credits
Physical hydrology of watersheds including the water cycle, water budgets, water yields and peak flows. Effects of surface erosion, stream temperatures, nutrient levels and human activities upon watershed health.
**Economics**

For information, contact The Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

**ED 200 Foundations of Education Seminar** ................................................. 3 credits
Learn about classroom management and curriculum design. Each student creates a fiction or nonfiction picture book and learns about project learning as a teaching strategy. Usually taken at the same time as a practicum in an elementary, middle, or high school classroom.

**ED 201 Foundations of Education Seminar**

Part 2: Instructional Strategies Language Arts ............................................. 3 credits
Prerequisite: ED 200 and ED 209. Learn about classroom management, educational philosophy and history and the legal, political and economic foundations of education as well as how to teach language arts through reading and writing in the content areas. Usually taken at the same time as a practicum in an elementary, middle, or high school classroom.

**ED 258 Multicultural Education** ..................................................... 3 credits
This course addresses the background, philosophy, methods, and curriculum that develop a culturally responsive educational setting. This course will enable students to meet the needs of all students and families from a variety of diverse backgrounds. Areas of study include equity, diversity, and social justice as related to various aspects and to all levels of education.

**ED 280 Co-op Ed: Education** .................................................. 3-12 credits
Work as an intern in an elementary, middle, or high school classroom to explore teaching as a career. Put up bulletin boards, grade papers, prepare art projects, tutor one-on-one and work with small groups. Course may be repeated to work with different age groups in different schools.

**ED 280EC Co-op Ed: Early Childhood Education** ............................. 3-12 credits
This course offers ECE majors (with 6th term standing) an opportunity to gain work experience in Early Childhood. Cooperative Education offers internship opportunities in a variety of early childhood settings. ECE majors earn college credit and a grade for on the job work experience related to their education and career goals. The field experience is supervised by ECE faculty and qualified staff at the site, and may include a weekly seminar.

**ED 280SE Co-op Ed: September Experience** ................................. 3-12 credits
Students learn how to create a classroom environment by helping prepare one under the direction of an experienced teacher. Students earn three credits for three weeks of work beginning the last week in August. Students should take one term of seminar ED 200, ED 130, or ED 131 before taking this practicum course.

**Electronics**

For information, contact the Advanced Technology Division, Bldg. 12/Rm. 201, 541.463.5380.

**ENGR 280E Co-op Ed: Electronic Technology** .................................... 3-12 credits
This course provides students with electronics learning experiences in businesses and industrial sites as well as integrating theory and practice gained in the classroom with practical experience in the professional world. Students may develop skills, explore career options and network with professionals and employers while earning credit toward a degree. Cooperative Education is a required class for the Electronic Technology Program.

**ET 121 Shop Practices** ............................................................. 2 credits
Prerequisite: Minimum reading score of 88 OR RD 080 OR RD 087 AND EL115 OR Prior College. This first year course in electronics technology addresses the general lab skills and knowledge required to function safely and effectively in an electronics laboratory or shop environment. The student will be introduced to concepts in electronic circuit assembly, wire termination, and soldering. Included is an overview of electrical schematics and diagrams used in the design, assembly, and repair of electrical and electronic systems. The use of common lab equipment and hand tools will be covered. This is a hands-on course intended to give the student experience performing tasks that are best taught by practice. Throughout the course the underlying theme is on work site safety and the ability to follow directions.

**ET 129 Electrical Theory 1** ....................................................... 1-4 credits
Prerequisite: Minimum reading score of 88 OR RD 080 OR RD 087 AND ED115 OR Prior College AND MTH060 or higher with a grade of “C” or better, or pass a placement test through the Testing Office. First course of a two-term sequence in electrical theory. The first term defines the basic electrical units, the basic laws of electrical theory as they apply to DC circuits such as series, parallel, and

**Education**

Also see Early Childhood Education

For information, contact the Cooperative Education Division, Bldg. 19/Rm. 231, 541.463.5203.

**ED 130 Comprehensive Classroom Management** ........................... 3 credits
This course provides a foundation in classroom management theory and application. Students will gain knowledge of appropriate techniques for managing a classroom. They will also learn problem solving strategies for handling of unproductive student behaviors both in the classroom and in other school settings.

**ED 131 Instructional Strategies for Education Professionals** .............. 3 credits
This course provides students with instructional strategies that have a positive impact on K-12 student achievement. Principles based on instructional research, case studies, and classroom examples are provided to give learners tools to use in the classroom.

**ECON 204 Introduction to Microeconomics** .................................... 4 credits
This course introduces the fundamental economic concepts, methods, and policy options used to analyze the interaction between the economy and the natural environment, including natural resources. Major topics covered include the economics of: pollution and environmental protection; resource extraction and depletion; externalities and public goods; and sustainability and resilience. Methods of economic analysis introduced include: cost-benefit analysis; valuation of environmental services, and impact analysis. Policy options considered include: property rights, effluent controls, emission charges, tradable pollution permits, and regulatory restrictions. Meets course requirements for the Water Conservation Technician program.
series-parallel circuits. AC waveforms and AC circuit components are introduced. Electronic test equipment such as the digital multimeter, oscilloscope and function generators are used to measure electrical signals and troubleshoot basic electrical circuits.

ET 129M Electrical Theory 1 ..................................1-4 credits
Prerequisite: Minimum reading score of 88 OR RD 080 OR RD087 and EL115 or Prior College and Prerequisite/Corequisite: MTH060 or higher with a grade of “C-” or better, or pass a placement test through the Testing Office. Course defines the basic electrical units, the basic laws of electrical theory as they apply to DC circuits such as series, parallel, and series-parallel circuits. AC waveforms and AC circuit components are introduced. Electronic test equipment such as the digital multimeter, oscilloscope and function generators are used to measure electrical signals and troubleshoot basic electrical circuits.

ET 130 Electrical Theory 2 ..................................1-4 credits
Prerequisite: ET 129. Second course of a two-term sequence in electrical theory. This course covers basic AC circuits and components, right triangle mathematics, RLC circuits, filters, and resonant circuits and RL/RC transient circuits. In the lab students will build and troubleshoot basic AC circuits using the oscilloscope, function generator, and DMM.

ET 131 Electrical Theory 3 ..................................4 credits
Prerequisite: ET 129, and ET 130. This course is the third course of a three-term sequence in electrical theory. Electrical Theory 3 combines electrical theory and electrical drafting. It uses and adds to the concepts learned in electrical theory, digital, and semiconductor classes. Students study and interpret electrical circuits, then draw the circuits using schematic capture software. Using computer analysis tools such as PSPICE, students are able to simulate and analyze circuits using powerful methods. Troubleshooting, analysis and circuit performance with changing parameters and conditions are studied.

ET 145 Semiconductor Devices 1 ..................1-4 credits
Prerequisite: ET 129. First course of a two-term sequence in the study of solid state semiconductor theory. ET 145 begins with the characteristics and use of both zener and general purpose diodes in common circuits. The second part discusses the operation of NPN and PNP bipolar transistors and common amplifier configurations.

ET 146 Semiconductor Devices 2 ..................1-4 credits
Prerequisite: ET 145. Second course of two-term sequence. Transistor theory is expanded to include the operation and use of Field Effect Transistors. The basic use of Silicon Controlled Rectifiers, Triacs, operational amplifiers and 555 timers are also explored in this course.

ET 151 Digital Electronics 1 ..................................1-4 credits
Prerequisite: ET 129 and MTH 060 or higher with a grade of “C-” or better, or pass a placement test through the Testing Office. This course is an introduction to the field of digital electronics. It includes a study of number systems, binary arithmetic, basic logic functions, the analysis and synthesis of combinational logic circuits and the implementation of logic circuits using MSI building blocks. The last part of the course introduces latches and flip-flops. The various flip-flops and their characteristics are studied and clocked sequential circuits, such as simple counters are built.

ET 152 Digital Electronics 2 ..................................1-4 credits
Prerequisite: ET 129 and ET 151. Second of a two-course sequence in basic digital theory, using the fundamental building blocks learned in ET 151 to develop more complex circuits. The course is laboratory-focused to build, test and troubleshoot digital systems. A working computer system, adder/subtractor circuits, and a digital function generator are examples of laboratory projects that develop an understanding of more advanced digital principles.

ET 229 Motors 1 ..................................1-4 credits
This class addresses the concepts and principles of electromechanical devices. Emphasis will be placed on the theory and operation of AC and DC motors used in manufacturing and the HVAC industries. Troubleshooting and power distribution systems will be studied along with adjustable frequency AC drives and stepper motors.

ET 230 Motors 2 ..................................1-4 credits
Prerequisite: ET 229. This course is a continuation of ET229 Motors 1. It addresses the relationship between electromechanical prime movers and the circuit elements used in their controls. The course progresses from electrical safety to electrical symbols and diagrams to control logic and devices. The focus will be on the operation, servicing, and troubleshooting of electromechanical systems beyond their initial design. Special emphasis is placed on the development of troubleshooting skills throughout the course.

ET 234 Programmable Controllers 1 ........1-4 credits
Prerequisite: Second year standing. This course covers the basics of relay and ladder logic technology as it pertains to Programmable Logic Controllers. Techniques in programming are explored and an emphasis is placed on interfacing I/O devices to the PLC. More advanced topics such as timers, counters, and sequencers are also covered. The student will also be introduced to a variety of troubleshooting problems at both component and system levels.

ET 235 Programmable Controllers 2 ........1-4 credits
Prerequisite: ET234/Programmable Controllers 1. This class provides an introduction to the robot and its capabilities and explores the various tasks that robots are programmed to perform. Interfacing between robots, PLC’s, and field devices are practiced with an emphasis on troubleshooting.

ET 236 Programmable Controllers 3 ........1-4 credits
Prerequisite: Second year standing. Course covers the elements that define a manufacturing controlled process. The course begins at the system level with basic statistical terms and spreadsheet data analysis. The second part discusses physical transducers and signal conditioning. The third part introduces analog to digital data conversion topics and the final part covers DC and stepper motors.

ET 239 Microprocessor Applications ........1-4 credits
Prerequisite: Second year standing. This course is a study of microcontrollers and their programming. These small circuits are self contained computers, often found on a single chip. They are embedded in thousands of everyday products where they control various processes. They are used by electronic engineers as well as by experimenters designing gadgets. The student learns and uses the BASIC programming language and explores how the processors can accept inputs, perform math functions, measure external quantities, light LED displays, control motors, produce sound and measure light.

ET 247 Linear Circuits ..................................4 credits
This course is an extension of the two course series that covers the theory of solid-state semiconductor devices. The focus will be on the integrated circuit operational amplifier and the circuits that include these integrated circuits as functional devices. A detailed overview will include common linear op-amp circuits, active filters, comparator circuits, oscillators and timers, data converters, and voltage regulator circuits. The course will cover the application of integrated devices and as such the analysis of internal transistor circuitry will be brief.

ET 281 Radiotelephone ..................................1-4 credits
Prerequisite: Second year standing. This course is an introduction to the principles of radio communications systems including Amplitude and Frequency Modulations are explored. This class also includes the examination of basic telephone systems.

ET 287 Microcomputer Hardware ...........1-4 credits
Current technology of specific PC hardware components. Installation and troubleshooting of these components include memory, video display, clock speeds, microprocessor differences, disk drives, input devices, and ports. The physical connection within a network, including cabling and installation of Network Interface Cards, is introduced. Hardware troubleshooting techniques emphasized.

Emergency Medical/Paramedic

For information, contact the Health Professions Division, Bldg. 4/Rm. 222, 541.463.5617. You must be accepted into the Emergency Medical/Paramedic program to take these classes.

EL 115H Effective Learning: Health Science Majors ..............3 credits
This course is designed for health occupation majors who wish to strengthen their study skills and strategies. Skills learned will be applied to note-taking from lectures and textbooks, use of their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time efficiently, use the library, and make visual study tools. Course work requires college-level reading skills.

EMT 151 Emergency Medical Technician Basic Part 1 ........5 credits
This course is part 1 of an Emergency Medical Technician - Basic level. Successful completion of this two part course gains eligibility to sit for the Oregon State EMT-B certification exam and/or the
National EMT-B certification exam. This course provides instruction in a variety of medical and trauma related emergencies. This is a demanding course designed for those who will function within an emergency medical services system. Supplies and equipment used is consistent with the tools of the trade. Fire departments and private ambulance services that respond to 911 emergencies carry very specific equipment and operate within very specific parameters. Students are taught how to apply their skills within this structure. This course is also a required component of the Associate of Applied Science Degree in Emergency Medical Technology.

EMT 152 Emergency Medical Technician Basic Part 2 .......................... 5 credits
Prerequisite: EMT 151. This course is Part 2 of an Emergency Medical Technician - Basic level. Successful completion of this two part course gains eligibility to sit for the Oregon State EMT-B certification exam and/or the National EMT-B certification exam. This course provides instruction in a variety of medical and trauma related emergencies. This is a demanding course for those who will function within an emergency medical services system. Supplies and equipment used is consistent with the tools of the trade. Fire departments and private ambulance services that respond to 911 emergencies carry very specific equipment and operate within very specific parameters. Students are taught how to apply their skills within this structure. This course is also a required component of the Associate of Applied Science Degree in Emergency Medical Technology.

EMT 169 Emergency Medical Technology Rescue ............................ 3 credits
Prerequisite: successful completion of EMT 152. Elementary procedures of rescue practices, systems, components, support, and control of rescue operations including ladder procedures and basic rescue techniques are taught to techniques and tools of patient extraction, emphasizing application to traffic assistance, as required for paramedic certification.

EMT 170 Emergency Response Communication/Documentation .............. 2 credits
Covers principles of therapeutic communication, verbal, written, and electronic communications in the provision of EMS, documentation of elements of patient assessment, care and transport, communication systems, radio types, reports, codes, and correct techniques.

EMT 171 Emergency Response Patient Transportation .......................... 2 credits
Covers ambulance operations, laws, maintenance and safety, emergency response driving and route planning.

EMT 175 Introduction to Emergency Medical Services .......................... 3 credits
Explores the role and responsibilities of a paramedic, to include: different kinds of emergency medical services systems, applicable Oregon law, relationship with governmental regulatory agencies, exposure risk to infectious disease and exposure to critical incident stress.

EMT 196 Crisis Intervention ................................................................. 3 credits
Designed for students pursuing a degree in Emergency Medical Technology with the knowledge to effectively manage psychological emergencies. Included in this course: understanding and managing acute stress reactions, suicide, rape and sexual assault, child abuse, death and dying, drug and alcohol emergencies, burn-out of the emergency worker and coping with job-related stress.

EMT 270 Emergency Medical Technology-Paramedic Part 1 .................. 10 credits
Prerequisite: EMT 271. Course is Part 1 of a 3 part course in paramedic education. This course covers the knowledge, skill and behaviors necessary to function effectively as a member of an emergency response team at the EMT-Paramedic level. This course focuses on general principals of pathophysiology, airway management and ventilation, venipuncture, pharmacology, patient assessment, clinical decision making and cardiovascular emergencies. Cognitive and psychomotor objectives are measured for competency by a combination of written and/or practical exams. Successful completion is required for entry into EMT272. Successful completion is required to meet AAS/EMT-P requirements. Program graduates are eligible to take the Oregon State/National EMT-Paramedic Certification Exam.

EMT 271 Emergency Medical Technology-Paramedic Clinical Part 1 .................. 1 credit
Prerequisite: EMT 270. This course is Part 1 of a 3 part clinical experience that includes direct patient care related outcomes necessary for completion of program objectives. The use of multiple departments within the hospital enables the student to see a wide distribution of patient situations. In the emergency department, which most closely approximates the types of patients that paramedics see, students are presented with a variety of patient presentations and complaints, important elements in building up a library of patient care experiences to draw upon in future clinical decision making responsibilities. This experience takes place within a hospital clinical environment and under direct supervision. All skills are first taught in the classroom before being performed in the clinical setting. Criminal background check and drug testing required.

EMT 272 Emergency Medical Technology-Paramedic Part 2 .................. 10 credits
Prerequisite: EMT 270, EMT 271. Corequisite: EMT 273. Course is Part 2 of a 3 part course in paramedic education. This course covers the knowledge, skill and behaviors necessary to function effectively as a member of an emergency response team at the EMT-Paramedic level. This course focuses on prehospital trauma care, medical emergencies, emergency childbirth, care of the newborn, neonate and pediatric patient. Cognitive and psychomotor objectives are measured for competency by a combination of written and/or practical exams. Affective objectives are evaluated throughout the course by using the Professional Behavior Evaluation instrument. Special Fee: $260.00 for Advanced Cardiac Life Support and Prehospital Trauma Life Support certification courses.

EMT 273 Emergency Medical Technology-Paramedic Clinical Part 2 .................. 3 credits
Prerequisite EMT 270, EMT 271. Corequisite: EMT272. This course is Part 3 of a 3 part clinical experience that includes direct patient care related outcomes necessary for completion of program objectives. The use of multiple departments within the hospital enables the student to see a wide distribution of patient situations. In the emergency department, which most closely approximates the types of patients that paramedics see, students are presented with a variety of patient presentations and complaints, important elements in building up a library of patient care experiences to draw upon in future clinical decision making responsibilities. This experience takes place within a hospital/clinical environment and under direct supervision. All skills are first taught in the classroom before being performed in the clinical setting. Criminal background check and drug testing required.

EMT 274 Emergency Medical Technology-Paramedic Part 3 .................. 4 credits
Prerequisites: EMT 272, EMT 273. Corequisite: EMT 274. Course is Part 3 of a 3 part course in paramedic education. This course covers the knowledge, skill and behaviors necessary to function effectively as a member of an emergency response team at the EMT-Paramedic level. This course focuses on prehospital toxicological emergencies, environmental emergencies, and geriatric emergencies. This course also teaches how to integrate the principles of assessment based management to perform an appropriate assessment and implement the management plan for patients with common complaints. Cognitive and psychomotor objectives are measured for competency by a combination of written and/or practical exams. Successful completion is required for entry into EMT280P2. Successful completion is required to meet AAS/EMT-P requirements. Program graduates are eligible to take the Oregon State/National EMT-Paramedic Certification Exam.

EMT 275 Emergency Medical Technology-Paramedic Clinical Part 3 .................. 4 credits
Prerequisites: EMT 272, EMT 273. Corequisite: EMT 274. This course is Part 3 of a 3 part clinical experience that includes direct patient care related outcomes necessary for completion of program objectives. The use of multiple departments within the hospital enables the student to see a wide distribution of patient situations. In the emergency department, which most closely approximates the types of patients that paramedics see, students are presented with a variety of patient presentations and complaints, important elements in building up a library of patient care experiences to draw upon in future clinical decision making responsibilities. This experience takes place within a hospital/clinical environment and under direct supervision. All skills are first taught in the classroom before being performed in the clinical setting. Criminal background check and drug testing required.
EMT 280P1 Co-op Ed: EMT Internship Part 1.........................3 credits
Prerequisite: EMT 272 EMT 273 Corequisite EMT 274. Course is part 1 of a 2 part paramedic internship on a 911 ambulance under the close supervision of a paramedic preceptor. Students learn to identify pertinent findings and how to prioritize treatment and transport decisions. Students may serve as team leader in a variety of pre-hospital advanced life support emergency medical situations.

EMT 280P2 Co-op Ed: EMT Internship Part 2.................................5 credits
Prerequisite: EMT 274, EMT 275. Course is part 2 of a 2 part paramedic internship on a 911 ambulance under the close supervision of a paramedic preceptor. Students learn to identify pertinent findings and how to prioritize treatment and transport decisions. Students may serve as team leader in a variety of pre-hospital advanced life support emergency medical situations.

Energy Management

For information, contact the Institute for Sustainable Practices, DCA/406, 541.463.6160

NRG 101 Introduction to Energy Management..........................3 credits
Prerequisite: Program Admittance. This course defines the need for energy management as an integral part of society at all levels. Students will understand basic energy accounting and analysis protocol. The course presents the various vocational opportunities available to energy management students through lectures, video and guest speakers.

NRG 102 Blueprint Reading: Residential and Commercial........3 credits
Prerequisite: Program Admittance. Introduces the relationship of sustainability and buildings by addressing the “Three Es of Sustainability” in the built environment. Explores the ENVIRONMENTAL influence of buildings; ECONOMIC benefits of conservation and efficiency measures; and SOCIAL EQUALITY of improving quality of life. The course uses the Leadership in Energy and Environmental Design framework education. May be offered online.

NRG 111 Residential/Light Commercial Energy Analysis...........3 credits
Prerequisite: PH 101. Topics include residential/light commercial heating systems; heat transfer through building envelope; degree days; sources of internal heat gains; heat loss calculations, indoor air pollution; codes and regulations. Spreadsheets will be used.

NRG 112 Commercial Energy Use Analysis..............................4 credits
Prerequisite: NRG 111 and NRG 121 and MTH 095 or Math Placement Test. Focuses on the analysis of energy use in commercial buildings. Topics include utility bill analysis, audit data, identifying energy efficiency measures, use of micro-dataloggers, energy savings and investment calculations, audit report writing. Students complete a supervised field audit.

NRG 113 Building Energy Simulations....................................4 credits
Prerequisite: NRG 112 and MTH 095 or Math Placement Test. The course covers the variety of computer programs available for analyzing commercial buildings. Topics include BIN methodology, hourly simulations and an overview of current programs on the market such as eQuest. Students perform supervised computer simulations.

NRG 121 Air Conditioning System Analysis...........................3 credits
Prerequisite: PH 101 Students investigate the physical principles of heating, ventilation, and air conditioning systems. Topics include the energy equation, refrigeration, sensible and latent heat equation, psychometrics, heat and cooling load equations, central forced air furnaces, SEERs, EERs, AFUEs, fuels, and unitary single zone and multi-zone secondary systems.

NRG 122 Commercial Air Conditioning System Analysis...........3 credits
Prerequisite: NRG 121 Students learn to identify commercial HVAC system types and the general energy impact of each type. Calculations will be used to determine energy characteristics in boilers and Bin analysis. Students will investigate HVAC delivery systems including fans pumps dampers, control valves, and ducting. The course includes field work.

NRG 123 Energy Control Strategies.......................................4 credits
Prerequisite: NRG 122 and NRG 124. Topics include building system control theory and devices, including electric, pneumatic, and digital controls. An emphasis is placed on identifying and understanding control strategies to estimate energy savings. Hands on labs reinforce the theoretical discussion. Students complete an energy efficiency controls calculations project.

NRG 124 Energy Efficiency Methods.....................................4 credits
Prerequisite: PH 102. Corequisite: NRG 121. A systems approach is used to analyze the input, output, and efficiency of commonplace energy conversion devices. Students become fluent in using different units used to denote and measure energy/power; learn what quantities need to be measured to determine energy/power in various types of systems; and, determine the energy/cost savings associated with efficiency improvement strategies.

NRG 131 Lighting Fundamentals...........................................3 credits
Prerequisite: PH 101 and PH 102 or Instructor Consent. Emphasis on analysis of energy investments using spreadsheets to consider total cost-benefits over the life of the investment. Topics: interest, simple payback and life-cycle cost analysis, time value of money, cash flow equivalence, benefit analysis, effects of tax credits, depreciation, inflation and/or escalating fuel costs on energy investments, and cost estimating procedures.

NRG 142 Energy Accounting................................................3 credits
Prerequisite: BT 123 Course will include review of energy units, data gathering for energy accounting utility rates and schedules, energy data organization, adjusted baselines, cost avoidance, load factor, data analysis, data presentation, use EPA’s Portfolio Manager software.

NRG 154 Alternative Energy Technologies-------------------------3 credits
A survey of the sources of energy that may be used to increase energy supply in the Pacific Northwest. Included are geothermal, wind, low head hydro, solar and biomass. Environmental, social and economic advantages of each source are assessed.

NRG 155 PV System Design and Installation 1..........................4 credits
Prerequisite: PH 101 and PH 102 and MTH 095 or Math Placement Test. Corequisite: NRG 157. This hands-on course will cover the National Electrical Code (NEC) specifics concerning photovoltaic (PV) installation article 690. Code compliant wiring of modules, inverters, charge controllers, and batteries will be explored in detail. Students will use materials designed for installation practice both indoors and outdoors. May be offered online.

NRG 156 PV System Design and Installation 2..........................4 credits
Prerequisite: NRG 155 This hands-on course is a continuation of NRG 155. Students will learn the unique differences between grid intertie and off-grid systems and associated components. Students will use the NEC as it relates to PV installation. Emphasizes safety on the job.

NRG 157 Renewable Energy Systems....................................3 credits
Prerequisite: First Year of Energy Program; Corequisite: NRG 141 This course will provide an overview of the Solar PV and Solar Thermal Industry. Topics include PV theory, an introduction to PV and thermal system types and efficiencies, solar site evaluation, available solar radiation, tools used in the solar industry, and the economics of solar.

NRG 158 Thermal Design and Installation 1..............................4 credits
Prerequisite: PH 101 and PH 102 and MTH 095 or Math Placement Test. This hands-on course covers the Oregon Plumbing code as it relates to solar Domestic Hot Water (DHW) system installation. Systems tanks, controls, pumps, mounting systems and installation safety will be discussed and demonstrated. Students will use materials designed for installation practice both indoors and outdoors.
NRG 159 Thermal Design and Installation 2 .......................... 4 credits
Prerequisite: NRG 158 This hands-on course continues the learning outcomes from Thermal 1 regarding the Oregon Plumbing code as it relates to solar Domestic Hot Water (DHW) system installation. Investigates storage tanks, control systems and piping systems, mounting systems and installation safety in greater depth.

NRG 162 Solar Photovoltaics System Design and Installation 3 ........................................... 4 credits
Prerequisites: NRG155 and NRG156. Students will understand the performance characteristics, applied electrical code, associated electrical equipment with an emphasis on battery electrical storage systems, and the need for the design and installation of photovoltaic energy systems. Students will install a system and sit for the North American Board of Certified Energy Practitioners Entry Level exam.

NRG 171 Materials Management / Solid Waste Management for Institutions ........................................... 3 credits
Focuses on materials procurement, materials disposal, the supply chain, and material acquisition waste avoidance. Students learn how to establish an organizational procurement program and to work with vendors to prioritize responsible procurement decisions. Students learn about consumption, waste, and climate change.

NRG 172 Understanding the LEED Framework & Green Buildings .................................................. 3 credits
Students learn the LEED certification framework which emphasizes state of the art strategies for sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality. This course will fully investigate the LEED Framework.

NRG 173 Carbon Footprints for Climate Action in Complex Organizations ........................................... 4 credits
This course teaches students how to conduct a greenhouse gas inventory for a complex organization focusing on reduced GHG emissions. This process includes reviewing existing protocols, setting inventory boundaries, collecting data for direct and indirect emissions sources, making calculations (including practicing estimation techniques), and reporting results.

NRG 174 Conducting a Full Sustainability Assessment ...... 4 credits
Students learn how to select sustainability assessment indicators and benchmarks, evaluate them and how to report findings. The course will concentrate on setting goals for sustainability performance, selecting and making appropriate calculations and then accurately reporting an organization’s performance.

NRG 181 Direct Digital Controls 1 ........................................... 4 credits
Hands-on training using control system management software. Configuring alarms and user access, trend control points, generating reports, adjusting control loops, experiencing a functioning building control system. Dashboard and metering systems, with an emphasis on future energy functionality.

NRG 182 Commercial HVAC Controls ........................................... 4 credits
Controls perspective on commercial HVAC systems ranging from older pneumatically controlled systems to newer digitally controlled systems. Comparing the benefits of different mechanical room systems and control systems. Retrofit opportunities and other energy conservation measures.

NRG 183 Controls Retuning and Troubleshooting .......... 4 credits
Prerequisite: NRG 181 Diagnostics and troubleshooting building control systems. Use occupant comfort complaints or other alarms, determine causes, use trend logging and visual inspection of equipment, and determine problem solutions; set point changes, modify control loops, return control loops or schedule maintenance.

NRG 184 Direct Digital Controls 2 .......................... 4 credits
Prerequisite: NRG181 Hands-on training modules and electronics used to implement building automation; control loop logic, schematic, and sequences of operation with applications for desired system behaviors. Controls design process, implementation, and commissioning using industry software and equipment.

NRG 206A Co-op Ed: Energy Management Seminar 1 .......................... 1 credit
Prerequisite: Instructor approval. Students will increase their understanding of industry expectations as well as develop job search tools and skills. Students will learn and practice preparing themselves to employers in a competent and professional manner in preparation for a cooperative education internship.

NRG 206B Co-op Ed: Energy Management Seminar 2 .......................... 1 credit
Prerequisite: NRG 206A and instructor approval. This course is a continuation of NRG 206A and further develops students’ understanding of industry expectations as well as job search tools and skills. The course is to provide additional skills that will help students find employment upon earning their degree.

NRG 280 Co-op Ed: Energy Management ........................................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of energy management. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

NRG 289 Independent Studies ........................................... 1-3 credits
A variable credit course based on independent study contracted between an instructor and a student.

Energy Management - Engineering Transfer

Also see Drafting, Electronics and Physics

For information, contact the Mathematics Division, Bldg. 16/Rm. 166, 541.463.5392.
220 | Engineering Transfer - Ethnic Studies

Laws using idealized circuit elements. Steady state and sinusoidal responses of passive and active circuits will be addressed. The course emphasizes a combination of conceptual understanding, mathematical analysis, lab experiments and computer simulations. This course is designed for engineering majors.

ENGR 280 Co-op Ed: Engineering: 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of engineering. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit.

English - See Literature, Writing

Environmental Science - See Earth and Environmental Science

Ethnic Studies

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

ES 101 Historical Racial & Ethnic Issues: 4 credits
This course explores the nature and complexity of racial and ethnic diversity in U.S. society. Using current developments in ethnic studies scholarship, we will examine the social construction of race and ethnicity, theories of prejudice, and the historical overview of various racial and ethnic groups. The course concludes with a comparative analysis of the intersection between race, class, and gender. ES 101 and ES 102 do not have to be taken in sequence.

ES 102 Contemporary Racial & Ethnic Issues: 4 credits
This course explores the nature and complexity of racial and ethnic diversity in U.S. society. Using current developments in ethnic studies scholarship, we will examine multiple sources of discrimination and how discrimination impacts self and society. We will also review the contemporary experiences and issues facing various ethnic and racial groups. The course concludes with strategies for overcoming exclusion. ES 101 and ES 102 do not have to be taken in sequence.

ES 211 Chicano/Latino Experience: Historical and Ideological Perspectives: 4 credits
This course focuses on the historical origins of the largest Latino population in the U.S. The course begins with an exploration of the consequences of contact between the different worldviews of Mesoamericans and Europeans, and examines how Mexican natives and mestizos came to be viewed as 'foreigners' in their ancestral home-land. Throughout the course, we will review historical and contemporary indigenous cultural survival efforts.

ES 212 Chicano/Latino Experience: Political and Ideological Perspectives: 4 credits
This course examines the experiences of Mexican Americans to achieve equality and self-determination through the twentieth century. Special attention will be paid to the emergence of multiple ideological and culturally nationalistic social justice movements that evolved into a unifying Chicano Movement of the late 1960s and early 70s. Finally, this course explores the continuing evolution of contemporary Chicano/Latino social justice movements.

ES 213 Chicano/Latino Experience: Contemporary Identity and Cultural Issues: 4 credits
This course explores the historical and contemporary identity/cultural issues affecting the largest Latino communities in the United States. We will review theories of ethnic identity development, as well as the social and political construction of ‘race’. This course also examines how U.S. foreign policy in Latin America has influenced perceptions within and outside of the Latino community. Finally, we review the use of pan-ethnic labels and their function in the construction of an all-embracing Hispanic Nation.

ES 221 African American Experience: Down From the Pyramids, Up From Slavery 10,000 BCE - 1877: 4 credits
The focus of this course is on African, Afro-European, Afro-Native American, Caribbean, South and North American Maroon societies. In this course we examine various cultural constructs through which Africans in America understand and influence the world. The chronology of this course encompasses Dynastic Egypt, pre-European

ES 222 African American Experience: Aspiration 1877 - 1945: 4 credits
This course examines African, Afro-European, Afro-Native American, and African-American contributions to various liberation movements in the Americas. We examine various cultural constructs through which Africans in the Americas understand and influence the world. The chronology of this course encompasses Post-Reconstruction America to the end of World War II. ES 221, 222, and 223 examine culture, identity, gender and women’s roles, economics, and African and Native American responses to systematic oppression towards goals of individual and group liberation. May be offered as a live interactive course.

ES 223 African American Experience: A Luta Continua: The Struggle Continues 1945 to Present: 4 credits
This course will focus primarily on the experiences of first-and second-generation Asian Pacific Americans through personal narratives, historical texts, documentaries essays, and creative works. Material will cover a wide historical period, from the mid-1800s to the present, and will include the experiences of individuals from a number of different groups, comparing and contrasting the similarities and differences of their experiences.

ES 232 Asian American Experience: Social Movements of the 20th Century: 4 credits
Throughout the 20th century, Asian Americans and Pacific Islanders have been discriminated against in various arenas (e.g., immigration, employment, political, education, housing, social, etc.). This course examines how Asian Americans and Pacific Islanders have responded to institutional forms of oppressions. Students will read and discuss works of various Asian American writers, scholars, and political activists to place Asian American social movements within a larger context of U.S. history.

ES 233 Asian American Experience: Contemporary Issues in Asian America: 4 credits
Where and how do Asian Pacific Americans fit into contemporary U.S. society and culture? This course will examine current situations and issues faced by Asian Pacific Americans such as recent immigration trends, anti-Asian violence and anti-immigrant sentiment, the Hawaiian sovereignty movement, Asian American/Korean American conflict, LGBT issues, multicultural identities, and interracial marriage. This course will also examine contemporary cultural production by Asian Pacific Americans.

ES 241 Native American Experience: Consequences of Native American & European Contact: 4 credits
This course deals with Native Americans and Alaskan Native cultures and history, both prior to and immediately following, contact with Europeans during the past five hundred years. The course is divided into two general segments: First, the course will explore Native cultures in their traditional settings, before the arrival of outsiders. It surveys the great diversity of lifestyles, belief systems, languages, social and political structures, and creative expressions, which characterized the numerous tribal communities of the North American continent. Second, the course focuses on the major European encounters with native societies, beginning with the expedition of 1492 and extending into the Twentieth Century. The disparate responses and resistance strategies of various indigenous populations confront the indigenous ecological and physical intrusion of Europeans is studied. ES 241, 242, or 243 courses may be taken at any time, in any order, with no prerequisites.
ES 242 Native American Experience: Nineteenth Century Federal-Indian Relations ..................... 4 credits This course focuses on nineteenth century United States and Canadian federal-native relations. In the nineteenth century, the United States and Canadian federal governments took different yet similar paths in how they dealt with the sovereign Native peoples within their borders. While no single course can adequately deal with the complexity of the subject matter surveyed, it is organized to help understand the public policies and events shaping tribal life in North America during this period. In the nineteenth century, paternalistic attitudes held by the dominant culture, created federal government policies whose effects can still be found today in the lived experiences of Native Americans.

ES 243 Native American Experience: Contemporary Native American Issues ......................... 4 credits This course explores contemporary relationships between the United States government, Native Americans, Alaskan Natives, and Native Hawaiians. Particular attention is paid to tribal sovereignty, treaty rights, land and resource ownership and use, religious and identity renewal, Native American political activism, education, and social and economic issues in contemporary rural and urban Native America. This course also focuses on various positive interactions and alliance-building relationships between Native Americans, the dominant society, and other groups of people of color in the U.S. ES 241, 242, or 243 courses may be taken at any time, in any order, with no prerequisites.

ES 250 Class, Race and Gender in the US Economy ......................... 4 credits This course examines the economic causes of social stratification within the labor market based upon class, race and gender. The course uses an economic theory perspective to examine issues such as earnings and employment disparities, uneven poverty rates, differential access to housing, health and participating. We will examine how the market both removes and produces obstacles, which restrict many social groups from fully participating in the promise of the ‘American Dream’. We will examine the common goals, aspirations and strategies shared by diverse social groups, while recognizing that socio-economic discrimination is still an enduring and measurable characteristic of market economies. Attention will be placed upon gaining an understanding of the impact of discrimination from the perspective of the affected groups through firsthand accounts.

ES 280 Co-op Ed: Ethnic Studies ........................................... 3-12 credits In this internship course Ethnic Studies students are encouraged to work with local service agencies that serve underrepresented minority communities or organizations that operate from a social justice perspective. Student may develop skills, explore career options, and network with professionals while earning college credit.

Exercise and Movement Science

For information, contact the Health and PE Division, Bldg. 5/Rm. 205, 541.463.5545.

EXMS 135 Applied Exercise Physiology 1 ..................... 3 credits Prerequisite: EXMS 295 and EXMS 194T. This course introduces EXMS Program students to the neuromuscular, cardiovascular and respiratory responses to acute exercise, and long-term physical training. Exercise metabolism and hormonal control will also be discussed.

EXMS 194F Professional Activity: Fitness Assessment and Exercise Prescription-Field Techniques ..................... 3 credits Prerequisite: Program Admission. This course introduces EXMS students to basic fitness assessment and exercise prescription principles. Students learn to assess and prescribe exercise for healthy populations or populations with medically controlled disease. Provides students with foundational skills for exercise science careers.

EXMS 194L Fitness Assessment and Exercise Prescription - Laboratory Techniques ..................... 3 credits Prerequisite: EXM S235. This course furthers the concepts introduced in EXMS 194F and introduces students to advanced assessment procedures performed in a laboratory setting. Students administer assessments (VO2max, hydrostatic weighing, anaerobic power, lactate threshold, etc.), interpret testing results and then prescribe appropriate exercise for various populations.

EXMS 194S Professional Activity: Principles of Strength Training and Conditioning Instruction ..................... 2 credits Prerequisite: Program Admission. This course introduces EXMS students to fundamental principles and techniques of resistance training, and programs/systems of conditioning. Includes development of exercises for flexibility, balance, strength, and aerobic conditioning. Provides students with foundational skills for exercise science careers.

EXMS 194T Techniques of Group Exercise Leadership ..................... 2 credits Prerequisite: EXMS 194F, EXMS 194S, EXMS 196. Students are introduced to group exercise leadership methods including safety, motivation, communication, organization and class/activity planning. Students experience leading/teaching in a variety of group fitness activities/genres for a variety of skill levels. This course is applicable to both personal trainers and group fitness leaders.

EXMS 196 Applied Anatomy and Kinesiology ..................... 3 credits Prerequisite: Program Admission. This course introduces EXMS students to basic anatomy and kinesiology principles of movement and exercise. Topics include identification of major muscle groups and joints, skeletal structure, planes/axes of movement, and basic biomechanical factors. Course work focuses heavily on practical application of knowledge for the fitness professional.

EXMS 214 Physiology of Exercise & Healthy Aging ..................... 3 credits An introductory course covering the physiological changes that occur during the aging process and the positive effects of exercise on disease risk, longevity and quality of life. Aging theories, structural and functional changes, and exercise programming for elderly populations will be discussed. May be offered online.

EXMS 227 Introduction to Exercise Science ..................... 3 credits An introductory course exploring careers in the exercise science field. An overview of sub-disciplines related to exercise science will also be presented, such as: exercise physiology, biomechanics, motor learning and control, athletic training and sports medicine, nutrition, and sports psychology. May be offered online.

EXMS 235 Applied Exercise Physiology 2 ..................... 3 credits Prerequisite: EXMS135. This course focuses on advanced application of EXMS 135 concepts including: environmental influences on exercise performance, training/nutrition for optimal athletic/exercise performance, ergogenic aids, and the effects of age, disease, and neurochemical conditions on exercise training and performance. Information literacy is emphasized.

EXMS 275 Exercise and Sport Biomechanics ..................... 3 credits Prerequisite: MTH 70 or higher and one of the following: EXMS 196, BI 231, PTA 132, or HO 150. An introductory course to the basic principles of biomechanics and how they can be applied in the context of sport and exercise to reduce injury and improve performance. Using anatomy, kinesiology, and math, students will learn to observe, analyze and correct errors in sport and exercise mechanics.

EXMS 294 Foundations of Fitness Management ..................... 3 credits Prerequisite: EXMS 194L. Introduction to management topics specific to the fitness industry including: fitness program administration, personnel management, risk management, legal liability, scope of practice, equipment acquisition, facility planning and maintenance. Students are also guided in job search practices and resume development.

EXMS 295 Injury Prevention and Management ..................... 3 credits Prerequisite: EXMS 194F, EXMS 194S, EXMS 196. This course builds on content from EXMS 194S and 196 to assist students in developing and progressing exercise prescriptions for individuals with the goal of preventing or managing common athletic/exercise related injuries. Students learn how to work within their scope of practice in this framework and collaborate with other healthcare professionals.

PE 280 Co-op Ed: Physical Education ..................... 1-12 credits Prerequisite: Instructor approval for site and credit load. Supervised internship in a Physical Education program on or off campus. May gain knowledge, develop skills, get teaching experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280A Co-op Ed: Athletics ..................... 3-12 credits Prerequisite: Instructor approval for site and credit load. Supervised internship in the non-coaching aspects of an athletic program on or off campus. May gain knowledge, develop skills, get experience and explore career options while earning credit. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280AR Co-op Ed: Aerobics ..................... 1-12 credits Prerequisite: Instructor approval for site and credit load. Supervised internship in an aerobic fitness program on or off campus.
May gain knowledge, develop skills, get teaching experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280AT Co-op Ed: Athletic Training..............................................1-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in an athletic training site on or off campus. May gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280C Co-op Ed: Coaching.........................................................3-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in a professional sports team on or off campus. May gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280F Co-op Ed: Fitness..............................................................1-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in a fitness program on or off campus. May gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280M Co-op Ed: Fitness Management......................................1-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in the management of a fitness program, on or off campus. May gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280R Co-op Ed: Recreation...................................................3-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in a recreational program on or off campus. May gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280RT Co-op Ed: Corrective Fitness......................................1-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in a corrective fitness program on or off campus. May gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

PE 280W Co-op Ed: Wellness.......................................................1-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in an employee wellness or similar program, on or off campus. May gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. Work sites may be paid or volunteer. Journals and other written assignments required.

Fabrication and Welding

For information, contact the Advanced Technology Division, Bldg. 12/Rm. 201, 541.463.5380.

ENGR 280W Co-op Ed: Welding.............................................3-12 credits
This course provides students with welding-related learning in businesses and industrial sites as well as integrating theory and practice gained in the classroom with practical experience in the professional world. Students may develop skills, explore career options and network with professionals and employers while earning college credit toward a degree.

RTEC 100 Basic Career Technical Skills..................................2-6 credits
This course explores the basic skills for entering technical careers such as mechanics, manufacturing, aviation, electronics, etc. The course includes; safety, math, tools, basic electricity, basic hydraulics, employability skills, rigging, blue prints, and communication. Students may not receive credit for both RTECH 100 and APPR 101.

WLD 111 Blueprint Reading for Welders.................................3 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. This course provides instruction necessary to interpret blueprints that are typically used by metal fabrication shops. Emphasis is placed on understanding types of lines, dimensioning, views, notations, abbreviations, welding symbols and steel nomenclature.

WLD 112 Fabrication/Welding 1..............................................12 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Comprehensive skills necessary for the fabrication of metal products. This course introduces basic blueprints reading and shop fabrication techniques, shielded metal arc, GMAW, and gas tungsten arc welding processes. These skills are learned in the context of assigned and graded practice projects.

WLD 113 Fabrication/Welding 2..............................................12 credits
Prerequisite: WLD 112 or WLD 111 and WLD 121 and WLD 143 and WLD 242 or instructor consent. Comprehensive skills necessary for the fabrication of metal products. This course builds and advances skills previously learned. Instruction and practice in blueprint reading, shop fabrication techniques, shielded metal arc, FCAW-G, and gas tungsten arc welding is provided.

WLD 114 Fabrication/Welding 3..............................................12 credits
Prerequisite: WLD 112 and WLD 113 or WLD 111 and WLD 121 and WLD 122 and WLD 143 and WLD 154 and WLD 242 and WLD 256 or instructor consent. Comprehensive skills necessary for the fabrication of metal products. This course builds and advances skills previously learned. Instruction and practice is given in calculating material costs, shop fabrication techniques, FCAW-SS, gas tungsten arc welding, and SMAW.

WLD 121 Shielded Metal Arc Welding 1...............................1-4 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Skill development in SMAW, oxy-acetylene cutting, understanding and practicing safe work methods in the welding shop and welding in all positions (flat, horizontal, overhead, and vertical), using the shielded metal arc process.

WLD 122 Shielded Metal Arc Welding 2...............................1-4 credits
Prerequisite: WLD 121 or performance test and written examination Skill development in electric arc welding. Training in the selection of electrodes and their use on metals of varying thicknesses, and controlling welding in oxy-acetylene cutting. Welding of a wide variety of electrodes. The student will be instructed in safe work habits and the optimum use of materials and equipment.

WLD 139 Welding Lab..............................................................1-6 credits
Prerequisite: Instructor consent and Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Only available to students who have taken or are registered in the arc welding, wire drive processes, and/or fabrication/welding sequence. This is an opportunity for additional time in the welding lab.

WLD 140 Welder Qualification (Cert): Wire Drive Processes........3 credits
Prerequisite: WLD 143 or WLD 154 or WLD 112 or WLD 113 or WLD 114 or instructor consent. This course studies the purpose and standards of American Welding Society welder qualification tests. It also provides instruction and practice in the preparation, welding and finishing of test specimens to code standards using gas tungsten arc welding processes. Course includes AWS D1.1 Welder Qualification Test.

WLD 141 Welder Qualification (Cert): SMAW..............................3 credits
Prerequisite: WLD 122 or WLD 112 or WLD 113 or WLD 114 or instructor consent. This course studies the purpose and standards of American Welding Society welder qualification tests. It also provides instruction and practice in the preparation, welding and finishing of test specimens to code standards using gas tungsten arc welding processes. Course includes AWS D1.1 Welder Qualification Test.

WLD 142 Pipe Welding Lab: Carbon Steel..............................3 credits
This is a hands-on course that instructs in set-up procedures and welding techniques required to weld carbon steel pipe in various positions. The code taught will be that of the American Welding Society (AWS). The scope of the course is limited to the practical application of welding techniques. At additional cost, a student may take an AWS pipe welder qualification code test to be arranged with the instructor.

WLD 143 Wire Drive Welding 1.............................................1-4 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Skills development in gas metal arc welding (GMAW) of carbon steel. Students will be instructed in proper care, set-up and use of GMAW equipment. Preparing weld test specimens and performing weld tests is included in this course.

WLD 151 Fundamentals of Metalurgy.....................................1-3 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Physical, chemical and mechanical
nature of carbon and alloy steels. Includes study of the purpose and practice of various thermal treatments and cold working processes common to metal using industries.

**WLD 154 Wire Drive Welding 2** .............................................. 1-4 credits
Prerequisite: WLD 143 or instructor consent. Technology and application of wire drive processes using gas shielded cored wire is taught. Preparing weld test specimens and performing weld tests is included in this course.

**WLD 159 Wire Drive Welding 3** .............................................. 1-4 credits
Prerequisite: WLD 143 or instructor consent. Technology and application of the wire drive process using self shielded cored wire is taught. Preparing weld test specimens and performing weld tests is included in this course.

**WLD 160 Wire Drive Welding 4** .............................................. 1-4 credits
Prerequisite: WLD 143 and WLD 154. This course provides technical information about, and practice in, Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) that builds on knowledge and skills learned in Wire Drive Welding 1, 2 & 3. Instruction in material preparation and testing of weld samples will also be provided.

**WLD 165 Industrial Welding Practices** ...................................... 3 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL 115 OR Prior College and WLD 121, WLD 122, WLD 143 and WLD 154. This course is designed for the welder trainee who has had limited or no industrial experience. Making quality weldments in typical industrial situations where circumstances are often less than ideal. The student will learn how to weld joints that are difficult to access, not directly visible, have surface contamination, or severe gap and in up irregularities.

**WLD 180 Co-op Ed: Welding** .................................................. 1-12 credits
This course provides on-the-job learning experiences in community businesses and organizations in the field of Welding. Students develop employability skills, explore career options and network with professionals and employers while earning college credit that may be applied toward a certificate or degree.

**WLD 206 Co-op Ed: Welding Seminar** ....................................... 1 credit
Students will increase their understanding of industry expectations while developing job search tools and skills. Students will learn and practice presenting themselves to employers in a competent and professional manner in preparation for a cooperative education internship and, ultimately, a professional career.

**WLD 215 Fabrication/Welding 4** .............................................. 12 credits
Prerequisite: Second year standing or instructor consent. This course instructs in the skills and technology associated with fabrication of metal products. Welding practice is provided in wire drive, SMAW and GTAW processes. Fabrication skills taught include blueprint reading, metal layout, part preparation, assembly and final finishing. Also studied are concepts in ferrous metallurgy and their applications.

**WLD 216 Fabrication/Welding 5** .............................................. 12 credits
Prerequisite: Second year standing or instructor consent. This course instructs in the skills and technology associated with fabrication of metal products. Welding practice is provided in wire drive, SMAW, and GTAW processes. Fabrication skills taught include blueprint reading, metal layout, part preparation and assembly and final finishing. Also studied are concepts in ferrous metallurgy and their applications especially pertaining to welding of carbon and stainless steel. This course includes practice and testing for AWS D1.1 Welder Qualification Exams.

**WLD 217 Fabrication/Welding 6** .............................................. 12 credits
Prerequisite: Second year standing or instructor consent. This course instructs in the skills and technology associated with fabrication of metal products. Welding practice is provided in wire drive, SMAW, and GTAW processes. Fabrication skills taught include blueprint reading, metal layout, part preparation and assembly and final finishing. Also studied are aluminum metallurgy concepts in wear analysis, selection and application of wear or corrosion resisting surface treatments in addition to applied aluminum metallurgy.

**WLD 242 Gas Tungsten Arc Welding 1** .................................... 3 credits
Prerequisite: Minimum reading score of 88 OR RD 080 OR RD 087 And EL 115 OR Prior College. This course teaches the technology of, and provides practice in, gas tungsten arc welding (GTAW) of carbon and stainless steel sheet material. Students will be instructed in proper care, set-up and use of GTAW equipment. Testing of weld samples is included in this course.

**WLD 256 Gas Tungsten Arc Welding 2** .................................... 3 credits
Prerequisite: WLD 242 or Instructor consent. This course provides continuing training in the technology and practice of the gas tungsten arc welding (GTAW) of carbon and stainless steel sheet. Testing of weld samples is included in this course.

**WLD 257 Gas Tungsten Arc Welding 3** .................................... 3 credits
Prerequisite: WLD 242 and WLD 256. This course provides technical information about, and practice in, gas tungsten arc welding of aluminum alloy sheet materials. Instruction in material preparation, finishing and testing of coupons will also be provided.

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**Family Studies - See Human Relations**

**Film - See Literature, Media Arts**

**Flight**

**Also see Aviation Maintenance**

For information, contact the Lane Aviation Academy, Airport Road, 541.463.4195.

**AS 111 The Air Force Today** .................................................. 1 credit
Deals with the Air Force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces, and aerospace support forces.

**AS 112 The Air Force Today** .................................................. 1 credit
Deals with the Air Force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces, and aerospace support forces.

**AS 113 The Air Force Today** .................................................. 1 credit
Deals with the Air Force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces, and aerospace support forces.

**AS 120 Leadership Laboratory** .................................................. 1 credit
Cadets learn officership, leadership, drill and ceremony, and customs and courtesies. Lec/lab. Graded P/N. OTHER PREREQS: Taken concurrently with AS 111, AS 112 and AS 113. Only offered to students enrolled in the AFROTC officer commissioning program.

**AS 211 The Development of Air Power** .................................... 1 credit
A historical review of air power employment in military and non-military operations in support of national objectives; a study of changes in the nature of military conflict; and a look at the evolution of air power concepts and doctrine. OTHER PREREQS: If enrolled in the AFROTC officer commissioning program, must be taken concurrently with AS 220.

**AS 212 The Development of Air Power** .................................... 1 credit
Study of air power from balloons and dirigibles through the jet age; a historical review of air power employment in military and non-military operations in support of national objectives; a study of changes in the nature of military conflict; and a look at the evolution of air power concepts and doctrine. OTHER PREREQS: If enrolled in the AFROTC officer commissioning program, must be taken concurrently with AS 220.

**AS 213 The Development of Air Power** .................................... 1 credit
Study of air power from balloons and dirigibles through the jet age; a historical review of air power employment in military and non-military operations in support of national objectives; a study of changes in the nature of military conflict; and a look at the evolution of air power concepts and doctrine. OTHER PREREQS: If enrolled in the AFROTC officer commissioning program, must be taken concurrently with AS 220.

**AS 220 Leadership Laboratory** .................................................. 1 credit
Cadets are placed in element leadership positions in order to know and comprehend the Air Force concepts of command, discipline, tradition, and courtesies. Lec/lab. Graded P/N. OTHER PREREQS: AS 211 is taken concurrently with AS 211, AS 212, and AS 213. Only offered to students enrolled in the AFROTC officer commissioning program.

**BA 254 General Aviation Management** .................................... 3 credits
This course will present a detailed examination of general aviation's role in the national economy, regional economy and local economy. The course will cover the most effective uses and management of
COURSE DESCRIPTIONS

FT 101 Exploring Aviation Careers: Summer Academy ......................................................... 1 credit
This course is designed to provide a hands-on opportunity for the participants in multiple major career specialties in the air transportation industry. This course includes 3 hours of dual flight instruction recorded as official logged flight time. Classroom instruction with labs including experience as a pilot, aviation maintenance technician, avionics technician, air traffic controller, airport management and briefings with the TSA.

FT 102 General Aviation Careers ....................................................................................... 1 credit
A survey of general aviation career areas, both flying and non-flying, as presented by a variety of guest speakers from the aviation industry. Class attendance is mandatory for credit; this is not a graded course.

FT 103 Aircraft Development ............................................................................................ 4 credits
Prerequisite: Testing: minimum reading score of 68. A survey course developing the evolution of the aviation industry. This course develops the interdependence of developing technology, materials sciences, political influences and economics. The student will exit this course understanding how these factors have driven the state of the industry today and projections for the future.

FT 115 Aircraft Structures and Systems ........................................................................... 3 credits
Designed to give a pilot a thorough understanding of airplane systems and structural design.

FT 130 Primary Flight Briefing ......................................................................................... 3 credits
Prerequisite: Testing: minimum reading score of 68. This course will help students to master key areas of aeronautical knowledge necessary to progress efficiently toward the Private Pilot Certificate.

FT 228 Multiengine Ground School ................................................................................... 2 credits
Prerequisite: Possession of FAA private pilot license. A two part multi-engine course: Part 1 develops the understanding of multi-engine airplane systems and basics of multi-engine airplane flight operations including emergency procedures. Part 2 develops advanced multi-engine airplane systems and operation. Multi-engine airplane operational procedures training including both normal and emergency procedures skills development.

FT 239 Professional Pilot Flight Lab ................................................................................... 1-7 credits
Prerequisites: Admission to the Flight Technology program. The Professional Pilot Course is designed to prepare applicants for their careers as professional pilots in the air transportation industry. The Professional Pilot Course includes certification training for Private Pilot, Commercial/Instrument Pilot in single-engine, multi-engine airplane and helicopter. Professional Pilot students may be prepared to become qualified as flight instructors with ratings so they may provide instrument instruction and multi-engine airplane instruction. The Professional Pilot Course is a comprehensive course of study including preparation that will meet Airline Transport Pilot (ATP) requirements. Throughout the 3 Professional Pilot Course is placed on instrument piloting skills and the use of conventional and advanced navigation systems including GPS and digital/electronic display technology. This course is repeatable.

FT 249 Flight 10 ..................................................................................................................... 1-3 credits
This course will present the principles of attitude instrument flying using a simulator. The course will cover all instrument procedures used under instrument flight conditions.

FT 250 Private Pilot Ground School .................................................................................... 5 credits
This course introduces and develops each knowledge and skill area essential for successful completion of the FAA written examination for a Private Pilot Airplane and/or Helicopter. Topics include FARs, airplane structures, aerodynamics, meteorology, navigation, accessing and using performance data and numerous other industry information resources.

FT 251 Commercial Pilot Ground School ........................................................................... 5 credits
Prerequisite: Private pilot license or 3 hours of dual flight instruction. This course develops the understanding of the IFR environment, systems and procedures.

FT 252 Instrument Ground School ..................................................................................... 5 credits
Prerequisite: Completion of Commercial Pilot Ground School FT 251. This course prepares the student for successful completion of the FAA written examination required for an Instrument rating. The course develops an understanding of the IFR environment, systems and procedures.

FT 254 Aerodynamics ....................................................................................................... 3 credits
An analysis of the physics of flight; the characteristics of high-speed and low-speed flight and the effects of pressure, altitude, weight, center of gravity, and airflow design on aircraft performance.

FT 255 Fundamentals and Flight Instructor-Instrument Ground School ............................. 3 credits
Prerequisite: Current passing score on FAA commercial pilot and instrument pilot knowledge exam or possession of valid commercial or ATP pilot certificate. A survey of psychological principles relating to the human learning process, plus a concise review of federal regulations, radio navigation, and principles of meteorology appropriate to IFR flight operations in the United States.

FT 256 Flight Instructor-Airplane Ground School .............................................................. 3 credits
This course introduces and develops each knowledge and skill area essential for instrument pilot knowledge exam or possession of valid commercial or ATP pilot certificate. A survey of psychological principles relating to the human learning process, plus a concise review of federal regulations, radio navigation, and principles of meteorology appropriate to IFR flight operations in the United States.

FT 280 Co-op Ed: Flight Tech ............................................................................................... 3-12 credits
This course provides students with flight-related learning in businesses and public organizations as well as integrating theory and practice gained in the classroom with practical experience in the professional world. Students may develop skills, explore career options and network with professionals and employers while earning credit toward a degree.

GS 109 Meteorology ............................................................................................................. 5 credits
This course is a survey of the field of meteorology with detailed emphasis on the elements specific to the aviation industry. Students exit this course understanding how to access, analyze and use weather data to make decisions essential for safe flight.

Foreign Languages - See Language Studies

French - See Language Studies

Geography

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

GEOG 141 Natural Environment ......................................................................................... 4 credits
This course is designed to introduce and analyze natural processes and the impacts of human/cultural activities operating in our environment. Dynamic processes create and alter landforms, climatic patterns, and biotic regional differences on the earth's surface. Understanding the causes and results of global climate change as it impacts future geographies is a fundamental theme in this course. Analysis of natural processes with added human impacts will introduce the student to scientific methodologies, using graphs, models and mapping techniques. This course is strongly recommended as a prerequisite for ENVS 184, Global Climate Change. This course meets the AAOT science or social science requirement.

GEOG 142 Introduction to Human Geography .................................................................... 4 credits
This course is an introduction to human geography patterns and concepts that help explain the spatial distribution for contemporary cultures. Concepts of region, movement of cultural ideas, and human interaction with their natural and built environment are stressed. Globalizations and changes in cultures resulting from environmental alterations will be presented. Changing cultural patterns will be explored and analyzed using maps, videos, and in-class exercises. This course fulfills the race, gender, and ethnicity requirement. May be offered online.

GEOG 151 Digital Earth ...................................................................................................... 4 credits
Prerequisite: MTH 060 or above. CIS 101 is strongly recommended. Digital Earth is a computer-aided instructional introduction to spatial concepts course that includes both lectures and hands-on computer labs that implement various geospatial technologies to explore fundamental concepts and theories in cultural and physical geography. Students will be introduced to spatial theory and technology. Students will focus on how spatial technology is woven into our daily lives and what can be accomplished with web-based spatial technologies. Students will learn how technologies such as GPS, Google Earth, Multispec and I-Tree Canopy can be used to solve real-world problems and aid critical decision making.
GEOG 201 World Regional Geography ..........................3 credits
An introduction to major culture regions of the world through the study of human patterns and the natural environments. Cultures, resources, and historical contexts illuminate the world’s distinctive regional nature. An emphasis is placed on development within the context of globalization. GEOG141 or GEOG142 is recommended prior to this class.

GEOG 216 Geography of Pacific Asia ..........................3 credits
Geography of Pacific Asia focuses on a functional world region that includes East and Southeast Asia, and the Pacific. The course has two primary components: (1) a descriptive introduction to the region focusing on physical, humanized, political, economic, and environmental patterns; (2) a thematic exploration of human and physical geographic concepts. Referencing regional patterns. A substantial research component will allow students to create an annotated bibliography on a topic of regional importance.

GEOG 223 Geography of the Muslim World ................ 4 credits
Presents Islam as a major cohesive component of Muslim culture. Students will study cultural traits and physical environments influenced by Islam’s distinctive and unifying cultural expression in the Muslim world. Spatial patterns, cultural landscapes, and non-western points of view are key.

GEOG 280 Co-op Ed: Geography ..............................2-12 credits
This course provides the student with geography-related work experience in community businesses and organizations. Students will have the opportunity to integrate the theoretical and practical gained in the classroom with practical experience in the professional world. In this course a student may develop skills, explore career options and network with professionals while earning transferable college credit.

GIS 151 Digital Earth ...........................................4 credits
Prerequisite: MTH 060 or above. CIS 101 is strongly recommended. Digital Earth is a computer-aided instructional introduction to geospatial concepts that includes both lectures and hands-on computer labs that implement various geospatial technologies to explore fundamental concepts and theories in cultural and physical geography. Students will be introduced to spatial theory and technology. Students will focus on how spatial technology is woven into our daily lives and what can be accomplished with web-based spatial technologies. Students will learn how technologies such as GPS, Google Earth, Multispec and I-Tree Canopy can be used to solve real-world problems and aid critical decision making.

GIS 245 GIS 1 ..................................................4 credits
Prerequisite: GIS 151 or GEOG 151, or consent of the instructor. GIS 1 is the second in the series of Geographic Information Science and Technology courses. The course will build on the foundations of geospatial technology introduced in GIS/GEOG 151. Students will use ArcInfo software to explore cartographic principles, projections, data capture, data structures, and data analysis. Access to a current computer outside of class (new within last 3 years) is strongly recommended. If using a Mac, you will need to be able to run Windows applications. Students who do not have access to a computer may be at a disadvantage.

GIS 246 GIS 2 ..................................................4 credits
Prerequisite: GIS 245. GIS 2 is the third in a series of Geographic Information Science and Technology courses. The course will focus on advanced skills and techniques used to create, analyze, and display spatial data in a geographic information system. The following skills and techniques will be emphasized: data and project management, digitizing, editing, address matching, georeferencing, overlay analysis, spatial analysis, problem solving (related to spatial concepts and software), and visual design. Access to a current computer outside of class (new within last 3 years) is strongly recommended. Students who do not have access to a computer may be at a disadvantage.

GIS 249 Raster Analysis and Remote Sensing ..................4 credits
Prerequisite: GIS 246 or instructor approval. This course provides students with advanced instruction in cartography. The objective of this course is to expand student’s skills communicating spatial data effectively. Advanced elements of cartographic layout such as modifying scale bar, direction indicators, and legends are covered. Advanced symbolization, labeling, and annotation will be addressed. GIS map layouts will be exported to Adobe Illustrator, refined and finalized for production.

GIS 253 Emerging Trends in Geospatial Technology ..............4 credits
Prerequisite: GIS 246 or instructor approval. This advanced course provides students with instruction and hands-on experience in emerging trends in geospatial technology. The rapid advances in geospatial technology, such as online-source, 3D visualization and on-line interactive mapping, as well as innovations in the geospatial industry will be presented. Students will learn how to apply geospatial problem solving and visualization skills and techniques using new technologies.

GIS 254 Spatial Data and Scripting ............................4 credits
Prerequisite: GIS 246, and CS 133P. This course will introduce students to automation of geoprocessing tasks using ArcGIS model builder and scripts. Students will learn how to work with attribute tables, customize data models, read and write text files, work with lists and create geometries.

GIS 260 Applications in GIS ....................................4 credits
Prerequisite: GIS 249 or consent of instructor. Students will design and implement a capstone project that integrates GIS skills and knowledge. Students will apply critical thinking skills to solve geospatial problems. Students will develop project management work-flows and create and manage a geodatabase. Students will use ArcGIS and other appropriate geospatial technologies to process and analyze spatial data then develop appropriate visual products to present project results. Students will gain workforce skills in time management, report writing, collaborative problem solving, and presenting information.

GIS 280 Co-op Ed: Geographic Information Science ......3-12 credits
Prerequisite: Instructor approval. Cooperative Education is a field experience opportunity for students who have completed four GIS classes: GIS 151 (also GEOG 151), GIS 245, GIS 246, and one GIS elective. Contact Lynn Songer, GIS Instructor Songerl@iunw.edu.

Graphic Design

For information, contact the Art and Applied Design Department, Bldg. 11/Rm. 101, 541.463.5429.

ART 115GD Basic Design: Fundamentals for Graphic Designers .... 4 credits
Beginning course in two-dimensional design covering fundamental visual elements, concepts, and principles with an emphasis on how those fundamentals apply to graphic design. It also includes career orientation. Course work includes necessary competencies for the Graphic Design program.

ART 119 Typography 1 ..............................................3 credits
Prerequisite: ART 115 or ART 131. Explores the use and design of letterforms and typographic design. Basic typographic history and classification of typefaces is covered, while essential craftsmanship and technical skills are stressed. Coursework includes necessary competencies for the Graphic Design program.

ART 200 Graphic Design History .....................................3 credits
A team-taught interdisciplinary approach to graphic design history and its relationship to traditional art. Students examine the chronology and development of graphic design within a social context, through an exploration of styles, movements, and individual careers. Emphasis is on mid-19th century design to the present. Open to all students and required for graphic design majors.

ART 216 Digital Design Tools .......................................4 credits
An introduction to core layout, vector, bitmap, and document-sharing software used in graphic design. Coursework includes necessary competencies for the graphic design program.

ART 218 Printing Technology ......................................2 credits
Prerequisite: Acceptance into the second year of the graphic design program. Co-requisite: ART 227. Introduces graphic design students to printing technology, including pre-press, press, finishing processes, proofing, papers, and inks. Coursework includes necessary competencies for the graphic design program.
ART 221 Graphic Design 1 ........................................... 4 credits
Prerequisite: ART 115, ART 116, ART 119. An introduction to design, layout, typography, and the design process from concept to mockup. Coursework includes necessary competencies for the Graphic Design program.

ART 222 Graphic Design 2 ........................................... 4 credits
Prerequisite: ART 221. An exploration of typical print design problems with an emphasis on layout strategy and concept. Coursework includes necessary competencies for the Graphic Design program.

ART 223 Graphic Design 3 ........................................... 4 credits
Prerequisite: ART 222. An Exploration of advanced graphic design problems as well as portfolio preparation. Students are exposed to professional and business issues in the field. Coursework includes necessary competencies for the Graphic Design program.

ART 225 Digital Illustration........................................... 3 credits
Prerequisite: ART 216. Students gain experience in using vector software to create technical and creative illustrations. Coursework includes necessary competencies for the Graphic Design program.

ART 227 Graphic Design Production 1 ........................................... 3 credits
Prerequisite: ART 216. Co-requisite: ART 218 and acceptance into the second year of the graphic design program. An introduction to digital prepress production with emphasis on page layout software and professional standards of production. Coursework includes necessary competencies for the graphic design program.

ART 228 Graphic Design Production 2 ........................................... 4 credits
Prerequisites: Art 227, Art 218, Mul 212, ART 225. An intermediate course in digital prepress production. Coursework includes necessary competencies for the graphic design program.

ART 229 Graphic Design Production 3 ........................................... 4 credits
Prerequisites: ART 228. An advanced course in digital production where students produce projects in a studio setting under professional conditions and standards.

ART 237 Illustration 1 ........................................... 3 credits
Prerequisite: ART 131. An introduction to the field of illustration with an emphasis on solving illustration problems and developing a personal style. Most assignments will concentrate on black and white illustration techniques. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 280GD Co-op Ed: Graphic Design ...........................................3-12 credits
Prerequisite: Instructor approval. This course provides on-the-job experience in professional graphic design sites in the community. Students integrate theory and practice gained in the classroom with practical experience in the professional world. Students develop skills, explore career options and network with professionals and employers while earning credit toward a degree. Course content and expected learning proficiencies vary from term to term. Course may be repeated.

ART 289 Web Production ........................................... 3 credits
Prerequisite: CS 195 or CIS 195 and ART 216 or MUL 212. An intermediate web development course emphasizing web production best practices and strategies. Topics include site building and management, navigation and usability, web typography, and imagery for the web. Students will gain hands-on experience with modern tools and technologies including use of web-based tools and web authoring software. This course may be offered online, traditional classroom instruction, or as a hybrid course.

ART 290 Design Concepts for the Web
Prerequisite: ART 216 or MUL 212 and ART 289. An intermediate study of web site design with an emphasis on informational architecture including strategy, planning, usability, and design of integrated web sites. This course covers business practices as they relate to graphic and web design. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 credits.

GD 110 Introduction to Graphic Design ........................................... 1 credit
An introductory course that presents information about a career of graphic design. Includes a look at job opportunities, the design process, required skills, education, and work conditions. Coursework includes necessary competencies for graduation from the Graphic Design program.

Health Occupations

For information, contact the Health Professions Division, Bldg. 4/Rm. 222, 541.463.5317.

HO 101 Introduction to Health Occupations ........................................... 2 credits
This course explores the health care system of our society and a variety of health careers. It includes an overview of the health care delivery system, historical background, holistic health and cultural competencies. In addition, it explores educational requirements, employability skills and demands, ethical, legal and safety standards, salary ranges and future job prospects for a theory of health careers. The course concludes with a comparison of all of the careers introduced in terms of their future viability and appropriateness for each student. May be offered online.

HO 102 Diversity Issues in Healthcare ........................................... 3 credits
This course explores the influence of membership in ethnic, religious, age, class and gender groupings on communication in health care settings on both the health care provider and the receiver of health care. Utilizing both theory and personal experience, students will identify personal attitudes and behaviors and gain experience in using effective methods of communicating with individuals from backgrounds represented in both patient and health care provider populations. May be offered online.

HO 103 Health Literacy and Communication ........................................... 3 credits
This course is designed to introduce the issue of health literacy and explore the links between health literacy, health outcomes and health care disparities. Students will gain a foundational understanding of health literacy by defining and identifying the factors that influence health literacy and exploring health communication expectations, examine varying levels of literacy, learn how to identify these levels and practically approach the differing needs of those at each level of literacy. This will also include learning how health literacy and communication impacts the health care system, populations at risk, cultural competence and communication, the responsibility to increase health literacy and identify resources and tools available to improve health related communication and improve health outcomes. May be offered online.

HO 120 Survey of Health Professions ........................................... 3 credits
Investigation and exploration of professions in the health care system. We will identify attributes/characteristics/skills required of an effective healthcare professional, and compare and contrast educational requirements, work responsibilities, environments, qualifications, skills and salary potential of various health professions.

Health Records

For information, contact the Health Professions Division, Bldg. 4/Rm. 222, 541.463.5317. You must be accepted into the Health Records program to take some of these classes.

EL 115H Effective Learning: Health Science Majors ........................................... 3 credits
This course is designed for health occupation majors who wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, and make visual study tools. Course work requires college-level reading skills.

HIM 270 ICD Coding ........................................... 4 credits
Prerequisite: HO100 and co-req or pre-req: HO150 (BI231 and BI232 may be substituted for HO150). Examines the development of coding classification systems. Introduces ICD-10-CM coding classification system, its format and conventions. Stresses basic coding steps and guidelines according to body systems. Provides actual coding exercises in relation to each system covered. Sections of this course will be offered online during the academic year.

HIM 273 CPT Coding 1 ........................................... 4 credits
Prerequisite: HO 100 and co-req/pre-req: HO 152 (BI 231, BI 232, and BI 233 may be substituted for HO 152). Study and application of Current Procedural Terminology (CPT) and Health Care Procedural Coding System (HCPCS). Includes coding systems, reimbursement, coding guidelines and standards, evaluation and management, and surgical, radiology, pathology, and laboratory and medicine procedures. Lab hours may include coding practice using both hardcopy worksheets and using online coding applications. Sections of this course will be offered online during the academic year.
HIM 275 CPT Coding 2 ............................................................. 4 credits
Prerequisites: HIM 273 This course will continue to explore the CPT coding system with the remaining body systems, along with HCPC standards. Additional coding and billing systems may be explored, such as DRG, as applicable. The course is designed to provide students with the current trends and regulatory requirements. Sections of this course will be offered online during the academic year.

HIT 104 Clinical Terminology ................................................ 3 credits
An opportunity to learn terminology used in a medical setting such as names of clinical instruments, surgical procedures, laboratory tests and pharmacology. Particularly of interest for those interested in health careers. May be offered online.

HIT 120 Introduction to Health Records .................................... 2 credits
This course is designed to introduce the Health Records student to the career opportunities in health information management, work settings, basics of the patient record, and basics of the healthcare delivery system. Students will learn about the Health Insurance Portability and Accountability Act (HIPAA). Important guidelines for building a resume and portfolio.

HIT 154 Introduction to Disease Processes .............................. 3 credits
Prerequisites: Successful completion of Human Body Systems 1 (HO150) and Human Body Systems 2 (HO152), or BI231, BI232, and BI233 (all three with grades of C or higher); or instructor consent. Provides an overview of human disease in terms of genetics, pathology, overall frequency and significance of disease, and diagnostic approach including laboratory resources. Course covers basic pathologic processes; diseases of organs and organ systems; discussion of some multisystem diseases and disease processes.

HIT 160 Practice Management............................................... 3 credits
Introduces medical practice management software. Students learn to create an overview of electronic patient appointment and billing records. Including data entry and storage of treatment information, matching CPT-4 and diagnosis codes with treatment procedures and charges, create and follow insurance claims for collection of payments from Medicare, Medicaid, private insurance and other reimbursement organizations. Introduces medical practice management software. Sections of this course will be offered online during the academic year.

HIT 195 Medical Transcription 1 ............................................ 3 credits
Prerequisite: HO100, keyboard 45 wpm, and BT 120; Completion of HO190 is highly suggested for success of this course. This course is designed to introduce the student to transcription of medical dictation with particular emphasis on accuracy and correct usage of medical terminology and English grammar. Correct spelling will also be emphasized. Speech recognition is introduced.

HIT 196 Medical Transcription 2 ............................................ 3 credits
Prerequisites: HO100, HO195 Medical Trx 1. Prior completion of HO190 is highly suggested for successful completion of this course. Continuation of HO 195 including more complex dictation, with higher standards for accuracy, neatness, terminology usage, spelling, etc. This course includes speech recognition exercises.

HIT 197 Medical Transcription 3 ............................................ 3 credits
Prerequisites: HO100, HO190, HIT 196. Consent of instructor required. Contact via e-mail and attend the first class to be released to register. Continuation of Medical Transcription 2. Seven medical specialties are studied employing increasingly difficult dictation. Class discussions include challenging terminology, documentation, medical terminology, and ability to format medical reports and correspondence in proper manner utilizing all of the above.

HIT 222 Reimbursement Methodologies ................................. 3 credits
Prerequisite: HIT 112, and HIT 160. Successful completion of this course with a C or better will enable students to understand common healthcare reimbursement methodologies, compliance standards, and AHIMA approved coding principles. Students will also become familiar with value based purchasing and other revenue cycle management concepts. May be offered online.

HIT 280 Co-op Ed: Health Records ........................................ 3-12 credits
Prerequisites: Admission to the Health Records Technology Program; Successful completion of fall and winter term Health Records Technology courses. Instructor consent required. Contact via e-mail prior to registration. The purpose of this course is to provide students meaningful learning experiences related to the field of health records. This course allows students the opportunity to earn college credit while working in the health care community under supervision.

HO 100 Medical Terminology .............................................. 3 credits
A interdisciplinary course covering basic medical terminology, derivation, pronunciation, and meaning. Oral exam(s) are required. Online and classroom sections are available during the academic year.

HO 110 Administrative Medical Office Procedures .................... 3 credits
Principles of filing and records management specifically for the medical facility. Legal and ethical concerns of confidentiality & privacy. Fundamentals of client reception, appointment scheduling, telephone techniques, and letter composition. Online sections are available during the academic year.

HO 112 Medical Insurance Procedures ................................. 3 credits
Completion of MTH 025 is strongly recommended but not required. This course includes a computation component. Medical reimbursement management for private health and accident insurance, Medicare, Medicaid, Workers’ Compensation. Abstracting information from health records and transfer forms. Introduction to the use of CPT-4 and ICD-9-CM coding. Introduction to the CMS 1500 FORM. Online sections are available during the academic year.

HO 114 Introduction to Coding ............................................ 3 credits
Prerequisites: HO100, corequisites: HO150 (or BI231 with grade of C or higher); or work experience and instructor consent. A coding survey course for anyone involved in health care delivery, particularly dealing with insurance and/or Medicare and government regulations from Medicare, Medicaid, and ICD-9-CM and CPT-4 codes, including abstracting health records and assigning code numbers to diagnoses and procedures for indexing health data and processing reimbursement claims. Online sections are available during the academic year.

HO 150 Human Body Systems 1 .......................................... 3 credits
Prerequisite or corequisite: HO 100. Designed to help the student identify selected fundamental concepts of the anatomy and physiology of the cell and skin, musculoskeletal, nervous, endocrine, and circulatory-lymphatic systems. Online sections are available during the academic year.

HO 152 Human Body Systems 2 .......................................... 3 credits
Prerequisites: HO 150 Human Body Systems 1. Part 2 of a 2 part series. Designed to help the student identify selected fundamental concepts of the anatomy and physiology of the respiratory, digestive, and reproductive systems. A basic introduction to microbiology is included. Online sections are available during the academic year.

HO 153 Introduction to Pharmacology .................................... 3 credits
This course provides an overview of pharmacology for healthcare students including: principles, history, general drug classifications, regulations, pharmacokinetics, drug interactions, usage and dosage. Students will be introduced to the care and handling of many medications and gain awareness of drug related issues. Drug effects will be analyzed by a body systems approach. Online course may be available during the academic year.

HO 190 Medical Formatting ................................................ 3 credits
Prerequisite or corequisite: HO100. Computer file management and MS Word experience suggested. A course designed to increase keyboarding skills including proofreading, spelling, English grammar, punctuation, medical terminology, and ability to format medical reports and correspondence in proper manner utilizing all of the above.

HO 195 Medical Transcription 1 .......................................... 3 credits
Prerequisite or corequisite: HO100. Ability to keyboard 45 wpm, and successful completion of HO190 is highly suggested for success of this course. This course is designed to introduce the student to transcription of medical dictation with particular emphasis on accuracy and correct usage of medical terminology and English grammar. Correct spelling will also be emphasized. Speech recognition is introduced.

HO 220 Legal and Ethical Aspects of Healthcare ....................... 3 credits
An overview of the United States legal system. A study of the principles of law and ethics as applied to the healthcare field with particular reference to all phases of medical information management and medical assisting.
HE 125 Workplace Health and Safety ............................................................. 3 credits
This course will increase overall safety awareness and provide information on the importance of protecting both the health of the workplace and the health of the individuals working in it. Students will explore the connections between personal health and safety, personal health behaviors, attitudes, and the accidents and illnesses that occur in the workplace.

HE 152 Drugs, Society and Behavior ............................................................. 3 credits
This course provides current information concerning the impact of drugs on society and personal behavior. Students will examine a variety of issues related to health & drug use. Topics include: pharmacology, stimulants, depressants, opiates, psychedelics, as well as drug history & control issues. May be offered online.

HE 209 Human Sexuality ........................................................................... 3 credits
This course increases knowledge and awareness of current sexual health issues to help students make informed, responsible sexual health decisions. Physiological, psychological, and sociological factors that contribute to the development and expression of sexuality will be explored and discussed. May be offered online.

HE 222 Consumer Health ......................................................................... 3 credits
This course helps students make informed decisions as consumers. Topics include: health conditions & diseases, self-care, fitness, consumerism, advertising/quality, alternative health, health care facilities, health insurance, death & dying, budgeting, consumer laws, & preventative health. May be offered online.

HE 240 Holistic Health ............................................................................... 3 credits
This course explores the expanding field of holistic health therapies. Students will examine how complementary and alternative medicine (CAM) contrasts with conventional Western medicine, and gain skills to make informed health care choices. May be offered online.

HE 250 Personal Health ............................................................................. 3 credits
This course is designed to empower students to make informed personal health decisions. Students will explore the connection between personal behavior & health outcomes. Topics will include behavior change strategies, disease prevention, health promotion, psychological health, & communication. May be offered as a telecourse.

HE 251 Wilderness First Aid ....................................................................... 3 credits
This course includes fundamental first aid care and emergency procedures in an outdoor environment. Techniques of assessing and handling the sick and injured in a remote location are included. Assessing injured and/or ill victims in a variety of emergency situations will be studied and practiced.

HE 252 First Aid .......................................................................................... 3 credits
This course focuses on emergency first aid, assessment, care, prevention and health promotion. Students will study & practice life-saving skills related to airway obstruction, rescue breathing, CPR, shock, soft tissue & skeletal injuries, sudden illness, and a variety of other emergencies.

HE 255 Global Health and Sustainability ..................................................... 4 credits
The focus of this course is on global sustainability and understanding the connection between the underlying issues of poverty, hunger, violence, disease, and disruption of ecosystems. We will explore the global impacts of economic, political, and cultural events that have impacted the health of people and the planet.

HE 261 Cardiopulmonary Resuscitation ..................................................... 1 credit
Principles and procedures to provide basic life support to victims of airway obstruction, respiratory and cardiac distress and or arrest. Meets National Safety Council and OSHA and American Red Cross standards for certification of adult, child and infant CPR. Students will receive Community CPR and AED certification, adult, child and Infant.

HE 262 First Aid 2: Beyond the Basics ......................................................... 3 credits
This course provides the training and skills needed to earn an American Heart Association BLS for Healthcare Providers certification, in addition to Heartsaver First Aid. Focus is on patient assessment, emergency care & prevention of breathing or cardiac emergencies, chronic disease and trauma.

HE 275 Lifetime Health and Fitness ............................................................ 3 credits
This course provides an overview of current and evidence based fitness research and its relationship to achieving optimal health.

HE 280 Co-op Ed: Health Occupations ......................................................... 3-12 credits
This internship course provides on-the-job learning experiences in the health occupations field. Students earn college credit while working under the supervision of a health care professional. Internship sites are selected to support each student's career goals, contributing to the student's education and future employability.

HE 290 Comprehensive Approaches to Weight Management ....................... 3 credits
The Weight Management course explores overweight, obesity and associated health issues eating from a health promotion perspective. Students will explore the relationships between lifestyle, health, personal behaviors, attitudes, and the accidents and illnesses that occur in the workplace.

HST 101 History of Western Civilization ....................................................... 4 credits
A survey of the historical development of the Western world over a period of several hundred years including the Italian Renaissance, expansion to and colonization of the western hemisphere, the Reformation era, the Enlightenment and Scientific Revolution, early Industrial Revolution, finishing with the French Revolution. This course will provide an overview of diverse peoples, nationalities, creation of, and changes in religious/value systems, scientific theories, social structures, economics, and political thought and institutions. Main themes of Western societies will be synthesized and considered in light of our modern world. May be taken out of sequence.

HST 102 History of Western Civilization ....................................................... 4 credits
A survey of the historical development of the Western world from approximately 1800 to the late twentieth century, including industrialization and labor, social movements, mid 19th-century political revolutions, imperialism, ideologies and politics of the 19th and 20th-century, the world wars and decolonization, Cold War, and popular culture. This course will provide an overview of diverse peoples, nationalities, and cultures while putting them in the context of changing social, political, economic conditions and values. These concepts, events, and people will guide our understanding of the present world. May be taken out of sequence.

HST 103 History of Western Civilization ....................................................... 4 credits
A survey of the historical development of the Western world from approximately 1800 to the late twentieth century, including industrialization and labor, social movements, mid 19th-century political revolutions, imperialism, ideologies and politics of the 19th and 20th-century, the world wars and decolonization, Cold War, and popular culture. This course will provide an overview of diverse peoples, nationalities, and cultures while putting them in the context of changing social, political, economic conditions and values. These concepts, events, and people will guide our understanding of the present world. May be taken out of sequence.

HST 104 World History ............................................................................. 4 credits
World History is the story of peoples on a global stage. This course will look at the origin and diffusion of civilizations in the ancient world including Asia, Africa, Middle East and Mediterranean, Europe and the Americas. Themes and topics will include world religions, early empires, communication, interaction and exchange. These survey courses will use the global approach, which focuses on the big picture and looks at the convergence of peoples across the earth’s surface into an integrated world system begun in early times and intensified after the rise of capitalism in the early modern era. All of the courses will consider the connections of select topics and concepts to the shaping of our present world. May be taken out of sequence. Class may be offered as a telecourse with videos available online, library checkout, and through television broadcast.

HST 105 World History ............................................................................. 4 credits
A survey of diverse peoples using the theme of “movement” to highlight cultural contact and the emergence of new world patterns beginning in approximately 1400 to 1815. It will include top- ics of exploration and expansion, state building, religions and their impact on culture, war, politics, selected individuals, global trade and consequences. May be taken out of sequence. May be offered as a telecourse.
HST 106 World History ................................................. 4 credits
A survey of the modern patterns of world history from approximately 1800 to late 20th-century including topics of industrialization and nationalism, mass society, imperialism, Communism, World War II, and the Cold War, nation-building in Latin America, Africa and the Middle East. Select individuals and events will be examined in historical context to guide understanding of present thought and conditions in our “global village”. May be taken out of sequence. May be offered as a telecourse.

HST 155 History of Islam ................................................. 4 credits
The History of Islam course will study the development and spread of Islam from its formation to the current era. The class will explore the breadth of Islam throughout the world and its influence in different regions, and how those regions influenced Islam; specifically, Islam within different cultural and societal contexts in history.

HST 195 History of the Vietnam War ............................................. 4 credits
This course examines the Twentieth-century conflict in South East Asia, and is designed to help students grasp the political, social, and economic realities of the Vietnam War, as it progressed both in South East Asia and the United States. This course includes rare documentary film footage and archival photographic material of soldiers and civilians, as well as those political figures that were central to the development and outcome of this struggle. History 195 is not a military history but a course designed to shed light on the reasons for Western involvement and the factors behind the failure of Western military and political policies. Offered as an online class only.

HST 201 History of the United States ............................................. 4 credits
Survey of United States history focusing on the creation and development of the country socially, economically, politically, and culturally. Imperialism, American colonization, colonial development, origins of slavery, Revolution, early Republic. May be taken out of sequence. May be offered as a telecourse.

HST 202 History of the United States ............................................. 4 credits
Survey of United States history focusing on the development of the country socially, economically, politically, and culturally. Imperialism, European colonization, colonial development, origins of slavery, Revolution, early Republic. May be taken out of sequence. May be offered as a telecourse.

HST 203 History of the United States ............................................. 4 credits
Survey of United States history focusing on the creation and development of the country socially, economically, politically, and culturally. Imperialism, American colonization, colonial development, origins of slavery, Revolution, early Republic. May be taken out of sequence. May be offered as a telecourse.

HST 208 US History Since 1945 ................................................. 4 credits
Survey of American history and culture since the Second World War. Some of the issues and people looked at are: the use of atomic weapons; the Marshall Plan; the Korean War; African-Americans’ struggle for civil rights; Vietnam; post-War immigration; multiculturalism; the Cold War; the changing role of women in American society; and the politics of Presidents of the era.

HST 209 American History: The Civil War ............................................. 4 credits
A survey of the Civil War and the trans-Mississippi West, focusing on social, political, intellectual, and environmental history. The course will include the study of this region of America and its peoples, from indigenous times into the 20th century. Some emphasis will be placed on contrasting the “mythical” West from historical facts, by involving the image of the West itself in movies, novels, music, and American folklore.

HST 266 US Women’s History ................................................. 4 credits
This course explores the distinctive experiences of women in the United States from its earliest period to current time. The course will follow a chronological framework with a focus on themes and topics such as Native American women, women and witchcraft, slavery, women’s rights movement, women and work, women and war, the ‘feminine mystique,’ and personal politics. The course will also include implications of race, class, and ethnic differences among women over time.

HST 280 Co-op Ed: History ......................................................... 2-12 credits
This course provides the student with history experience in community organizations. Students will have the opportunity to integrate theory and practice gained in the classroom with practical experience in the professional world. In this course a student may develop skills, explore career options, and network with professionals and employers while earning college credit.

HST 280 Co-op Ed: History - Honors ......................................................... 2-12 credits
This honors course provides students with history experience in community organizations. Students will have the opportunity to integrate theory and practice gained in the classroom with practical experience in the professional world. In this course a student may develop skills, explore career options, and network with professionals and employers while earning college credit.

ANTH 102_H World Archaeology-Honors ................................. 4 credits
This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. May be taken out of sequence. May be offered as a telecourse.

ART 203_H Survey of American Indian Art and Architecture: North and Central America-Honors ................................. 4 credits
This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. May be taken out of sequence. May be offered as a telecourse.

ART 203_H Survey of American Indian Art and Architecture: North and Central America-Honors ................................. 4 credits
This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. May be taken out of sequence. May be offered as a telecourse.

ART 115_H Basic Design: Fundamentals-Honors ......................... 3 credits
This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. May be taken out of sequence. May be offered as a telecourse.

BI 101_H General Biology-Honors ................................................. 4 credits
This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. May be taken out of sequence. May be offered as a telecourse.

BI 101_H General Biology-Honors ................................................. 4 credits
This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. May be taken out of sequence. May be offered as a telecourse.

COOP 280_H Co-op Ed: Service Learning-Honors ......................... 3-12 credits
Prerequisite: Instructor approval. Gain experience with community service by addressing real community needs. Practice critical thinking, citizenship and civic responsibility, explore career options, and network with professionals while earning college credit. In this honors section students will actively engage, investigate and reflect on topics leading to enhanced knowledge and skills. This honors class delves deeper into course topics and requires a high level of student...
motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. See lanecc.edu/honors for information.

PHL 205_H Contemporary Moral Issues-Honors ............... 4 credits
This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. Contact the instructor and see lanecc.edu/honors for information. This course focuses on ethical issues, which affect our daily lives in personal, social, and political spheres. Issues covered will vary by instructor, but may include our duties to animals and the environment; consumerism and materialism; issues in bioethics such as abortion, euthanasia, human cloning and genetic engineering; ‘victimless’ crimes such as drugs, pornography and prostitution; poverty, both in the U.S. and abroad; war; free speech and other personal liberties; and various forms of discrimination and prejudice.

PS 297_H Environmental Politics-Honors ...................... 4 credits
This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. See lanecc.edu/honors for information. This course focuses on current environmental problems, alternative frameworks for understanding these problems, and appropriate political responses. Among the problems covered are overpopulation, economic globalization, ozone depletion, the greenhouse effect, bio-colonization, and the depletion of renewable and non-renewable resources. Alternative frameworks considered include philosophical visions of Deep Ecology and Gaia. These frameworks are used to investigate possible ways to create sustainable economic, political and social systems. Finally, the course focuses on grass roots politics, including groups and social movements actively seeking to promote environmental and social justice.

WR 122_H Composition: Argument, Style and Research-Honors ......................................................... 4 credits
Prerequisite: A passing grade (C- or better) in WR 121 or a passing score on the English Department's Waiver exam. This honors class delves deeper into course topics and requires a high level of student motivation; the pace may be faster than non-honors courses. See lanecc.edu/honors for information. While continuing the concerns of WR 121-English Composition: Introduction to Academic Writing WR 122-Argument, Style, and Research focuses on persuasion and argument supported by external research, including the processes of finding and evaluating sources, citing, documenting, and integrating source material into the student's own text. Both subjects—argument and research—are presented in the context of critical reading and the writing.

### Hospitality Management

For information, contact the Culinary Arts and Hospitality Management Department, Blog, 119 M, 202, 541.633.3563.

HRTM 100 Intro to Culinary and Hosp. .......................... 3 credits
This is an introductory course designed to provide a broad overview of the hospitality management and culinary arts industry and the various segments that comprise the industry. Emphasis in this course is given to understanding the scope and complexity of this industry. The student will have the opportunity to integrate theory and practice gained in the classroom with practical experience in the professional world.

HRTM 104 Introduction to Travel and Tourism .................. 3 credits
Open to the Public. This course is designed to provide students with a basic knowledge of tourism-related concepts. There will be an emphasis on community-based sustainable tourism development.

HRTM 105 Restaurant Operations .................................. 3 credits
Prerequisite: CAHM majors only. This course offers a broad overview of restaurant operations. Topics include: bar and beverage management, front and back-of-the-house operations, and basic customer service skills.

HRTM 106 Introduction to Hospitality Management ............. 3 credits
Open to the Public. This course explores the hospitality industry touching upon topics such as hotel management, food and beverage management, event management, and the cruise industry. This course places an emphasis on Sustainable Standard Operating Procedures for the hospitality industry.

HRTM 109 Principles of Meetings and Convention Management ...................................................... 3 credits
Open to the Public. This course is intended to serve as an overview of the Meeting, Convention, and Special Event Management industry. Students will have a general understanding of the principles, practices, operations and management of the industry.

HRTM 110 Hospitality Sales and Marketing ....................... 3 credits
Open to the Public. This course is the study of marketing concepts, methods, and techniques used in the hospitality industry with a focus on consumer behavior as it relates to sustainable products and services.

HRTM 140 Hospitality Law and Security .......................... 3 credits
Open to the Public. A basic study of hotel and restaurant law emphasizing safety and security in risk management, food and liquor service liability, employment law, civil rights and discrimination law, and how they apply to public accommodations and employment, internal security for asset protection and OSHA regulations.

HRTM 209 Advanced Principles of Meeting, Convention, and Special Event Management .................. 3 credits
Prerequisite: HRTM 109. The purpose of this course is to acquire in-depth knowledge about the meeting, convention, and special event management field and to become familiar with management techniques and strategies required for successful planning, promotion, implementation, and evaluation of those events. Focus will be placed on sustainable standard operating procedures for such events.

HRTM 220 Sustainability in the Hospitality Industry  .......... 2 credits
A multi-dimensional course introducing global sustainability and environmental movements, their impact on the hospitality industry, and responses to and opportunities associated with sustainability within the industry.

HRTM 225 Banquet Operations ..................................... 2 credits
Prerequisite: HM majors only. This course offers student learning experiences involving the running of a full-service conference center for the Center for Meeting and Learning. Students are required to complete 30 lab hours in the Center for Meeting and Learning in addition to weekly in –class meetings covering all aspects of managing banquets and events.

HRTM 230 Hotel Operations 1 ....................................... 3 credits
Open to the Public. This course is an introduction to the hotel industry. General principles of hotel management including the basic theory of hotel operation, using the Center for Meeting and Learning as the laboratory. This course places an emphasis on Sustainable Standard Operating Procedures for the hospitality industry.

HRTM 231 Hotel Operations 2 ....................................... 3 credits
Prerequisite: HRTM 230. This course will continue to build on the fundamentals covered in HRTM 230 with a more in depth look at the management structure and functions of the executive committee. This course will focus on case studies as well as roundtable discussions with hotel executives and guest lecturers.

HRTM 260 Hospitality Human Resources and Supervision ................. 3 credits
Open to the Public. Examines the fundamentals of supervision that include planning, basic management functions, and customer relations and service. Focus is on building relationships with diverse employees through communication, motivation, supervision and leadership, and the human resources environment.

HRTM 265 Hospitality Financials 1 .................................. 3 credits
Prerequisite: CAHM majors “2nd-year status” only. This course presents an overview of cost-control procedures including purchasing, storage, issuing, security, production, and financial topics for food and beverage, labor, and other expense areas in the hospitality industry.

HRTM 275 Hospitality Financials 2 .................................. 3 credits
Prerequisite: HRTM 265. This course provides the student with the tools to understand the financial structure of a hospitality organization. The implementation of financial controls, including labor and menu pricing, will be discussed. The curriculum will include the completion of a business plan.

HRTM 280 Co-op Ed: Hospitality Management ................. 7 credits
Prerequisite: HM majors only. This course provides the student with hospitality management-related work experience in community businesses and organizations. The student will have the opportunity to integrate theory and practice gained in the classroom with practical experience in the professional world.
This course presents the interpersonal ‘people skills’ that are important in the modern workplace. Topics include awareness of individual work styles and how to work effectively with people with different styles in a diverse workplace.

CG 299 Conference On Families
3 credits
View real life in-home parent-child interactions with a focus on building credibility as a parent, encouragement, effective communication, and stimulating childrens’ healthy development. Typical parent/child problems are illustrated in a variety of family types and children. May be offered as a telecourse.

CPSY 195 Introduction to Addictive Behavior
3 credits
This course is intended to infuse substance abuse prevention technology into the general populace of employed professionals such as teachers, lawyers, nurses and other occupations, to enable non-counseling lay people to become proficient in the basics of self-care when dealing with addicts. Because CPSY 195 has some similar course content to HS 102 Psychopharmacology, only one of these courses may be counted toward degree and certificate requirements at Lane. In addition, CPSY 195 may not be substituted for any course in Human Services certificate or degree programs. May be offered as a live interactive course.

CPSY 200 Understanding Addictive Behavior
3 credits
Overview of addiction and the impact on individuals and society, introduces models and theories of addiction. The social and cultural environments of substance abuse and addictions will be explored. Students will be introduced to models of prevention and treatment. May be offered as a live interactive course.

Human Services

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

CG 280HS Co-op Ed: Human Services
3-12 credits
In this internship course students gain practical human services related work experience in community organizations. Students will integrate theory, practice skills learned in the classroom, explore career options and network with professionals and employers while earning credit toward their degree.

HS 102 Psychopharmacology
4 credits
Students will be introduced to the behavioral, physiological, psychological and social effects of psychoactive substances on the individual user as well as the family and society. Students will learn basic pharmacology and about commonly abused drugs. Models of treatment for substance use and disorders will be explored including issues related to diverse cultures, lifestyles, gender and the needs of special populations. This class is accepted by ACCBO to meet certification requirements for alcohol & drug counselors.

HS 107 Aging: A Social and Developmental Perspective
3 credits
This course introduces students to the field of gerontology. As our population ages, we continue to have a need to have service providers who are informed, trained and educated around the issues facing seniors. Students will learn skills that will assist them in working with elders and their families. Students will be introduced to the various service settings as well as the needs of special populations. Spirituality and alternative forms of care will also be explored.

HS 150 Personal Effectiveness for Human Service Workers
3 credits
This course is designed to help students create greater success in college, and in their professional lives, while simultaneously building a supportive learning environment for students in the General Human Services Program. The course utilizes individual and small group exercises to explore human service careers, and issues relevant to being an effective human service professional. Students will learn about setting boundaries, stress management, and burnout prevention as well as other field-oriented skills. Students will be introduced to strategies for providing trauma informed services from a strength-based perspective.

HS 151 Issues in Assessing and Treating the Problem Gambler
1 credit
Assessing and treating the problem gambler: DSM criteria for problem and pathological gambling, cognitive distortions related to problem gamblers, updated research on problem gambling and the brain, working with families of problem gamblers, and issues related to special populations and gambling.
HS 155 Interviewing Theory and Techniques ...................... 3 credits
Students will be introduced to the theoretical knowledge and interviewing skills required of human service workers in a variety of work settings. Students will learn the basic processes used for information gathering, problem solving, and information or advice giving. They will learn and practice skills associated with conducting an effective interview. Students will be sensitized to the issues common to interviewing people of differing cultural backgrounds. This class is accepted by ACCBO to meet certification requirements for alcohol and drug counselors.

HS 158 Trauma Theory to Practice ................................. 2 credits
This class introduces students to the effects of trauma, including physical, cognitive, emotional, social and behavioral responses to traumatic experiences; how trauma impacts individuals who seek assistance from human service organizations. Best practices for both trauma specific and trauma-informed services.

HS 201 Introduction to Human Services .......................... 3 credits
Students will be introduced to a wide array of social and personal problems that are addressed by the field of human services. Students will explore the way economics and history shape current social welfare programs and policies. The philosophical foundation of the human service movement as well as career opportunities in the field will be examined. Trends and intervention strategies for a number of service systems will be introduced. The impact of culture and diversity on human services will be explored.

HS 206 The Criminal Addict: Issues & Interventions ............ 3 credits
An overview of the complex relationship between drug abuse, dependency and criminality will be discussed. Socio-economic, gender, familial, societal and cultural factors will be examined and current “best practice” interventions with this population will be presented. The general function of the criminal justice and corrections systems will be studied. Instructional methods will include lecture, discussion, films, small group activities, and guest speakers.

HS 209 Crisis Intervention and Prevention ....................... 3 credits
This course will provide an introduction to the current best practices associated with working with individuals who have dual diagnoses and their families. The course addresses the current emphasis in the field of human services to provide integrated services to individuals and their families when an individual has both a mental health diagnosis and a substance use diagnosis thereby supporting students in better meeting the entry level requirements of social service agencies in Oregon.

HS 220 Prevention 1: Preventing Substance Abuse & Other Social Problems ........................................... 3 credits
Prerequisite: College level reading and writing skills. Students will be introduced to prevention philosophy and program interventions aimed at addressing social problems and reinforcing healthy behaviors and lifestyles. Risk factors, protective processes and resiliency factors will be explored. Students will have an opportunity to examine effective prevention programs that address the needs of different cultures and diverse populations.

HS 221 Co-occurring Disorders ...................................... 3 credits
An introduction to best practices in working with individuals with dual diagnoses and their families. Emphasizes integrated services to individuals with both mental health diagnosis and substance use diagnosis. Supports students to meet entry-level requirements of social service agencies in Oregon.

HS 222 Best Practices in Human Services: Interventions .... 4 credits
An overview of Best Practices currently implemented for substance abuse, mental health, case management and a variety of other challenges facing adults and families will be examined with an emphasis on the impact of environmental/societal factors, gender and multicultural issues.

HS 224 Group Counseling Skills ..................................... 3 credits
Introduction to describing, selecting, and appropriately using strategies from accepted and culturally appropriate models for group counseling with clients with a variety of disorders including substance abuse. This class is accepted by ACCBO to meet certification requirements for alcohol and drug counselors.

HS 226 Ethics and Law .................................................. 3 credits
Introduction to the established professional codes of ethics that define the professional context within which the addiction counselor and human services provider works. Students will become knowledgeable about federal and state laws and regulations that apply in the field of substance abuse treatment and other human services. This class is accepted by ACCBO to meet certification requirements for alcohol and drug counselors.

HS 228 HIV/AIDS and other Infectious Diseases: Risk Assessment and Intervention ...................... 2 credits
Introduces the epidemiology of HIV/AIDS, hepatitis, tuberculosis and sexually transmitted diseases that frequently infect people who use drugs or who are chemically dependent. Students will examine treatment options and prevention strategies. The legal and policy issues that impact infected individuals as well as the larger community will be explored. This class is accepted by ACCBO to meet certification requirements for alcohol and drug counselors.

HS 229 Grief and Loss Across Life Span ............................ 3 credits
This course will introduce students to the issues and impact of learning losses, and the losses, Students will explore the emotional, cultural, developmental, spiritual and behavioral factors that shape an individual’s reaction to loss, including the reactions of helpers who are working with people experiencing personal loss and grief. Material will address losses of individuals, and their significant others, when confronted by chronic disability, illness, or other life-altering events associated with aging as well as death. Students will investigate specific therapeutic methods to respond compassionately and help individuals develop emotional resilience to loss. This class will combine lecture, small and large group discussions, journaling and art projects that focus on personal experience as one way to grasp the reality of griefwork.

HS 231 Advanced Interviewing and Counseling .................. 3 credits
Prerequisite: HS 155. This class will provide an introduction to the theory and principles of motivational interviewing. Motivational interviewing is a client-centered approach to helping clients make behavioral changes and encouraging the client to explore and resolve their ambivalence about changing their behaviors. Students will learn the theoretical basis of this evidence based practice. Students will learn about stages of change and strategies for intervening effectively at each stage of the change process.

HS 232 Cognitive-Behavioral Strategies .......................... 3 credits
Prerequisite: HS 155. This class will introduce students to the theory and methods of cognitive-behavioral approaches to counseling. These approaches rest upon the premise that psychological distress and maladaptive behavior is the result of faulty thinking. Cognitive-behavioral approaches are based on a psycho-educational model and focus on changing cognitions in order to change feelings and behavior.

HS 235 The Aging Mind: Understanding and Adapting to Change .............................................................. 3 credits
All older persons experience normal changes in cognitive functioning as they age. Some older persons, as well as younger persons, experience pathological changes in cognitive functioning often associated with growing older. This course will address the common myths and fears related to cognitive aging, will provide current information about the capability of the brain to continue to learn and remember, will identify coping skills for successfully adapting to normal and pathological changes in cognition, and will build skills for developing successful helping relationships with older persons. Instructional practices will include guest speakers, media presentations, role plays, case studies, reading assignments, and lectures.

HS 265 Casework Interviewing ....................................... 3 credits
Prerequisite: HS 155. Students will learn the theoretical knowledge and skills needed to work effectively as caseworkers with clients in human service organizations. Students will be introduced to solution-focused, and client directed interviewing skills that emphasize client strengths and goals.
HS 266 Case Management .............................................. 3 credits
Prerequisite: HS 155 or HS285. Students will be introduced to the theory and practice of case management. Methods of delivering accessible, integrated, coordinated, and accountable care management services will be presented. Students will learn how to maintain professional records, including documenting assessments, treatment plans, chart notes and other relevant agency records. Cross-cultural issues to designing and delivering case management services will be explored.

HS 267 Cultural Competence in Human Services ............ 3 credits
Diverse cultures and philosophies will be studied. How the human service practitioner can become culturally competent, will be the focus. Major ethnic and cultural groups will be studied as well as major cultural assumptions and patterns and their impact on identity and mental health.

Humanities

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

HUM 100 Humanities Through the Arts.......................... 4 credits
The Humanities through the Arts offers an exploratory approach to the humanities, focusing on the special role of the arts. Examining the relation of the humanities to values, objects and events important to people, is central to this course. A major goal of the course is to provide a means of studying values as revealed in the arts, all the while keeping in mind the important question “What is Art?”

Internet - See Business and Computers: Introduction/Information Systems/Computer Science

Internships/Work Experiences - See Cooperative Education

Journalism

Also see Photography

For information, contact the Art and Applied Design Department, Bldg. 11/Rm. 101, 541.463.5409.

J 134 Photojournalism .................................................. 3 credits
This course is designed to work within the field of content. Content is not only the first step in good photojournalism, but also the first step in good critical thinking. The course will explore how you see an image, choose to share that image, and the message your images carry. Other topics include the history of photojournalism and the crossover from documentary photography to the world of art.

J 216 Newswriting 1 .................................................... 3 credits
The study and practice of news-gathering and writing objective news stories. Discussions center on concept of news and news values, ethics, interviewing and traditional journalism methods, and standards as practiced by established American newspapers.

J 234 Photojournalism 2 .............................................. 4 credits
Prerequisite: J 134. A continuation of Photojournalism with the continued discussion of content and ethics of the field. Students learn how to create editorials, identify the differences between news and human interest, develop funding for non-mainstream stories, and self-promote in the competitive field of photojournalism. Students prepare their work through editorial processing and presentation.

J 280 Co-op Ed: Journalism .......................................... 3-12 credits
Prerequisite: J216 for reporters and ART 221 or ART 222 or ART 223 for graphic artists, exceptions only with instructor consent. This course provides work experience in reporting, design and photography. Students will have the opportunity to integrate classroom theory with practical experience. Students may develop skills, explore career options and network with professionals and employers while earning credit toward a degree. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

Language Studies

For information, contact the Language, Literature and Communication Division, Center Bldg./Rm. 457, 541.463.5419.

AIL 101 American Indian Languages .......................... 4 credits
This course is the first course in a three-term sequence of study of the American Indian language, Chinuk Wawa, at the first-year college level. Students will achieve beginning listening, oral, cultural, and literacy competency. Determination of competency and instruction will conform to tribal, state, and college criteria. Language instruction will include activities, dialogue, and text analysis. Objectives: Students will (1) converse in a variety of common everyday settings using basic sentences and structures presented in class. Emphasis is placed on daily speaking, writing, reading, and listening of Chinuk Wawa and learning about the cultures of the people who spoke and still speak the language.

AIL 102 American Indian Languages .......................... 4 credits
Prerequisite: AIL101 or consent of instructor. This course is the second course of a three-term sequence of study of the American Indian language, Chinuk Wawa, at the first-year college level. Students will achieve beginning listening, oral, cultural, and literacy competency. Determination of competency and instruction will conform to tribal, state, and college criteria. Language instruction will include activities, dialogue, and text analysis. Objectives: Students will (1) converse in a variety of common everyday settings using basic sentences and structures presented in class. Emphasis is placed on daily speaking, writing, reading, and listening of Chinuk Wawa and learning about the cultures of the people who spoke and still speak the language.

AIL 103 American Indian Languages .......................... 4 credits
Prerequisite: AIL 102 or consent of instructor. This course is the third course of a three-term sequence of study of the American Indian language, Chinuk Wawa, at the first-year college level. Students will achieve beginning listening, oral, cultural, and literacy competency. Determination of competency and instruction will conform to tribal, state, and college criteria. Language instruction will include activities, dialogue, and text analysis. Objectives: Students will (1) become proficient in the sound system of Chinuk Wawa to be able to (2) converse in a variety of common everyday settings using sentences, questions, and structures presented in class. Emphasis is placed on daily speaking, more complex writing, reading and listening of Chinuk Wawa and learning about the cultures of the people who spoke and still speak the language.

AIL 201 Chinuk Wawa .................................................. 4 credits
Prerequisite: AIL 103 or consent of the instructor. This course is the first course of a three-term sequence to ensure students achieve competency in Chinuk Wawa at the second year college level. Competency is defined by benchmarks set by the Tribes, by the state of Oregon and in accordance with Oregon’s SB 690 of 2001, and by Lane’s language standards. Objectives: Students will (1) learn the culture and history of the Grand Ronde people; (2) converse in a variety of common everyday settings; (3) learn to use more advanced verb structures; (4) learn to work (with a linguistic emphasis) with texts. Emphasis is placed on daily speaking, writing, reading, and listening of Chinuk Wawa and learning about the cultures of the people who spoke and still speak the language.

AIL 202 Chinuk Wawa .................................................. 4 credits
Prerequisite: AIL 201 or consent of the instructor. This course is the second course of a three-term sequence to ensure students achieve competency in Chinuk Wawa at the second year college level. Competency is defined by benchmarks set by the Tribes, by the state of Oregon and in accordance with Oregon’s SB 690 of 2001, and by Lane’s language standards. Objectives: Students will (1) learn and discuss the culture and history of the Grand Ronde people; (2) converse in a variety of settings; (3) learn to use more advanced verb structures; (4) learn to work (with a linguistic emphasis) with texts. Emphasis is placed on daily speaking, writing, reading, and listening of Chinuk Wawa and understanding the cultures of the people who spoke and still speak the language.

AIL 203 Chinuk Wawa .................................................. 4 credits
Prerequisite: AIL 202 or consent of the instructor. This course is the third course of a three-term sequence to ensure students achieve competency in Chinuk Wawa at the second year college level.
Competency is defined by benchmarks set by the Tribes, by the state of Oregon and in accordance with Oregon’s SB 690 of 2001, and by Lane’s language standards. Objectives: Students will (1) learn and discuss the culture and history of the Grand Ronde people within a variety of settings; (2) learn to use more advanced grammatical structures; (4) work (a linguistic emphasis) on texts. Emphasis is placed on daily speaking, writing, reading, and listening of Chinuk Wawa and understanding the cultures of the people who spoke and still speak the language.

AIL 280 Co-op Ed: American Indian Language .......................3-12 credits Prerequisite: Instructor approval. This internship is for students who already have some background in American Indian Languages. Students work at a site related to American Indian languages and, under the guidance of a professional, will gain further exposure/understanding of culture/language issues, especially challenges/opportunities associated with learning American Indian languages.

FL 280W Co-op Ed: International Work Experience ..................1-12 credits Prerequisite: Instructor approval. This structured program for international work experience through LCC and IES Global Internships. Living and working in another country, students gain career and intercultural skills essential in a global society. Application and other details are on the web at http://ies3global.ous.edu/.

FR 101 First-Year French ....................................................5 credits The first of a three-term sequence designed for students with no prior language study. Introduction to French in the context of French-speaking cultures, with an emphasis on oral communication (listening and speaking) and some reading and writing practice. Students learn basic grammar structures, vocabulary, and cultural information. Computer lab work is required.

FR 102 First-Year French ....................................................5 credits Prerequisite: FR 101 with a passing grade of C- or above, or equivalent. The second of a three-term sequence designed for students with no prior language study. Continuation of beginning French in the context of French-speaking cultures, with emphasis on oral communication (listening and speaking) and some reading and writing. Students learn basic grammar structures, vocabulary, and cultural information. Computer lab work is required.

FR 103 First-Year French ....................................................5 credits Prerequisite: FR 102 with a passing grade of C- or above, or equivalent. The third of a three-term sequence designed for students with no prior language study. Continuation of beginning French in the context of French-speaking cultures, with an emphasis on oral communication (listening and speaking) and some reading and writing. Students learn basic grammar structures, vocabulary, and cultural information. Prior language study in French or another language strongly recommended. Computer lab work is required.

FR 151 First-Year French ....................................................7 credits Prerequisite: FR 150 with a passing grade of C- or above, or equivalent. First in a two-term “semi-intensive,” accelerated sequence. Introduction to French in the context of French-speaking cultures, with an emphasis on oral communication (listening and speaking) and some reading and writing. Students learn basic grammar structures, vocabulary, and cultural information. Prior language study in French or another language strongly recommended. Computer lab work is required.

FR 201 Second-Year French ..................................................5 credits Prerequisite: FR 103 or FR 151 with a passing grade of C- or equivalent. First in a three-term sequence of Intermediate French. French 201, 202, 203 are intermediate five-skills courses with an emphasis on oral communication (listening comprehension and speaking). Students continue to develop their writing and reading skills, review and learn new vocabulary and grammatical structures, and deepen their understanding of French-speaking cultures. Computer lab work is required.

FR 202 Second-Year French ..................................................5 credits Prerequisite: FR 201 with a passing grade of C- or above, or equivalent. Second in a three-term sequence of Intermediate French. French 201, 202, 203 are intermediate five-skills courses with an emphasis on oral communication (listening comprehension and speaking). Students continue to develop their writing and reading skills, review and learn new vocabulary and grammatical structures, and deepen their understanding of French-speaking cultures. Computer lab work is required.

FR 203 Second-Year French ..................................................5 credits Prerequisite: FR 202 with a passing grade of C- or equivalent. Third in a three-term sequence of Intermediate French. French 201, 202, 203 are intermediate five-skills courses with an emphasis on oral communication (listening comprehension and speaking). Students continue to develop their writing and reading skills, review and learn new vocabulary and grammatical structures, and deepen their understanding of French-speaking cultures. Computer lab work is required.

FR 207 Intermediate French Conversation ..............................1 credit Prerequisite: FR 201 Corequisite: FR202 This course offers conversational practice in French at the intermediate level of vocabulary and grammar structures that students have already studied or are currently learning. Offered P/NP, winter term only.

FR 211 Conversational French ..............................................2 credits Prerequisite: FR 103, FR 151, or equivalent. This is an intensive weekend conversation class designed to give students the opportunity to improve their oral communication skills and intercultural competence. Students speak and hear only French while participating in cultural activities and games, in discussions following guest speaker presentations, and in French Francophone-themed meals. We also view a film in French to introduce and expand on vocabulary and expressions in authentic cultural contexts. Students have the opportunity to share experiences and opinions, to exchange ideas, and to practice using various forms and functions of the target language.

FR 212 Conversational French ..............................................2 credits Prerequisite: FR 103, FR 151, or equivalent. This is an intensive weekend conversation class designed to give students the opportunity to improve their oral communication skills and intercultural competence. Students speak and hear only French while participating in cultural activities and games, in discussions following guest speaker presentations, and in French Francophone-themed meals. We also view a film in French to introduce and expand on vocabulary and expressions in authentic cultural contexts. Students have the opportunity to share experiences and opinions, to exchange ideas, and to practice using various forms and functions of the target language.

FR 213 Conversational French Through Film ...........................2 credits Prerequisite: FR 102 or equivalent. A film-based conversation class wherein students improve their oral communication skills. We use French and Francophone films to introduce and expand on vocabulary in authentic cultural contexts, with a focus on functional language. Students also share opinions and exchange ideas as they explore different Francophone cultures and social contexts.

FR 280 Co-op Ed: French ....................................................3-12 credits Students who are fluent in French will practice and polish their language skills in a work setting. Students primarily work as tutors in language labs with a limited number of off-campus opportunities in local schools. Meet with the French co-op coordinator the term before (if possible) to set up the internship.

JPN 280 Co-op Ed: Japanese .................................................3-12 credits Students fluent in Japanese will practice and polish their language skills in a work setting. Students may work as language lab tutors at LCC, or in a limited number of K-12 school settings, or in community organizations, usually with Japanese interpreters. Meet with the Japanese co-op coordinator the term before (if possible) to set up the internship.

SPAN 101 Spanish, First-Year .............................................5 credits Spanish 101 is the first course in a three course sequence designed to provide one full year of college level transfer courses at the beginning language level. Each course is conducted in Spanish and they must be taken in sequence. The sequence emphasizes the development of the skills of listening, speaking, reading, writing, and
In Spanish 101, students will learn to converse in a variety of common everyday settings using the vocabulary and structures presented in class. Emphasis is also placed on writing, reading, listening, and learning about Hispanic cultures.

SPAN 102 Spanish, First-Year ............................................................... 5 credits
Prerequisite: SPAN 101 with a passing grade of C- or above, or placement by instructor. Spanish 102 is the second course in a three course sequence designed to provide one full year of college level transfer courses at the beginning language level. Each course is conducted in Spanish and they must be taken in sequence. This sequence emphasizes the development of the skills of listening, speaking, reading, writing, and culture. In Spanish 102, students will learn to converse in a variety of common everyday settings using the vocabulary and structures presented in class as well as those covered in Spanish 101. Emphasis is also placed on writing, reading, listening, and learning about Hispanic cultures. Tests are administered outside of class hours.

SPAN 103 Spanish, First-Year ............................................................... 5 credits
Prerequisite: Credit level SPAN 101 minimum grade of C-, or an equivalent or placement by instructor. Spanish 103 is the third course in a three course sequence designed to provide one full year of college level transfer courses at the beginning language level. Each course is conducted in Spanish and they must be taken in sequence. This sequence emphasizes the development of the skills of listening, speaking, reading, writing, and culture. In Spanish 103, students will learn to converse in a variety of common everyday settings using the vocabulary and structures presented in class as well as those covered in Spanish 101 and 102. Emphasis is also placed on writing, reading, listening, and learning about Hispanic cultures. Tests are administered outside of class hours.

SPAN 201 Spanish, Second-Year ......................................................... 5 credits
Prerequisite: Credit level SPAN 201 minimum grade of C-, or an equivalent or placement by instructor. SPAN 201 is the first course of a three-term sequence (SPAN 201-202-203) designed to provide one full year of college transfer courses at the intermediate (second year) level. Each course is conducted in Spanish and they must be taken in sequence. SPAN 201-202-203 builds on Spanish language skills acquired through the beginning, first year sequence (SPAN 101-102-103) and expands upon them to develop student skills at an intermediate language level. These courses are five skill courses with emphasis on reading, writing, listening and speaking of Spanish, and on learning about Spanish-speaking cultures. Tests are administered outside of class hours. The text for this course includes an online workbook component.

SPAN 202 Spanish, Second-Year ......................................................... 5 credits
Prerequisite: Credit level SPAN 202 minimum grade of C-, or an equivalent or placement by instructor. SPAN 202 is the second course of a three-term sequence (SPAN 201-202-203) designed to provide one full year of college transfer courses at the intermediate (second year) level. Each course is conducted in Spanish and they must be taken in sequence. SPAN 201-202-203 builds on Spanish language skills acquired through the beginning, first year sequence (SPAN 101-102-103) and expands upon them to develop student skills at an intermediate language level. These courses are five skill courses with emphasis on reading, writing, listening and speaking of Spanish, and on learning about Spanish-speaking cultures. Tests are administered outside of class hours. The text for this course includes an online workbook component.

SPAN 203 Spanish, Second-Year ......................................................... 5 credits
Prerequisite: Credit level SPAN 203 minimum grade of C-, or an equivalent, or placement by instructor. SPAN 203 is the third course of a three-term sequence (SPAN 201-202-203) designed to provide one full year of college transfer courses at the intermediate (second year) level. Each course is conducted in Spanish and they must be taken in sequence. SPAN 201-202-203 builds on Spanish language skills acquired through the beginning, first year sequence (SPAN 101-102-103) and expands upon them to develop student skills at an intermediate language level. These courses are five skill courses with emphasis on reading, writing, listening and speaking of Spanish, and on learning about Spanish-speaking cultures. Tests are administered outside of class hours. The text for this course includes an online workbook component.

SPAN 211B Conversational Spanish Intermediate .............................. 3 credits
Prerequisite: Credit Level SPAN 103 or equivalent with min. grade of C- or first year language competence, or placement by instructor. May be taken concurrently with any 200 level Spanish course. Spanish 211B is an Intermediate Spanish course in oral communication. The student has an opportunity for intensive practice in both speaking and listening skills to help improve oral/aural skills in spoken Spanish. Meaningful communication is accomplished through the expansion of vocabulary and expressions, and through interactive activities that permit the exchange of experiences and ideas in various areas of interest. The main themes developed in the course content are expanded through the incorporation of authentic readings and materials chosen from the internet, film, music, and literary and nonliterary texts. This course is conducted in Spanish.

SPAN 212B Conversational Spanish Intermediate ................................ 3 credits
Prerequisite: Credit Level SPAN 103 or equivalent with min. grade of C- or first year language competence, or placement by instructor. May be taken concurrently with any 200 level Spanish course. Spanish 212B is an Intermediate Spanish course in oral communication. The student has an opportunity for intensive practice in both speaking and listening skills to help improve oral/aural skills in spoken Spanish. Meaningful communication is accomplished through the expansion of vocabulary and expressions, and through interactive activities that permit the exchange of experiences and ideas in various areas of interest. The main themes developed in the course content are expanded through the incorporation of authentic readings and materials chosen from the internet, film, music, and literary and nonliterary texts. This course is conducted in Spanish.

SPAN 280 Co-op Ed: Spanish .......................................................... 3-12 credits
Prerequisite: Credit level SPAN 201 minimum grade of C-, or placement by instructor. May be taken concurrently with any 200 level Spanish course. Spanish 212B is an Intermediate Spanish course in oral communication. The student has an opportunity for intensive practice in both speaking and listening skills to help improve oral/aural skills in spoken Spanish. Meaningful communication is accomplished through the expansion of vocabulary and expressions, and through interactive activities that permit the exchange of experiences and ideas in various areas of interest. The main themes developed in the course content are expanded through the incorporation of authentic readings and materials chosen from the internet, film, music, and literary and nonliterary texts. This course is conducted in Spanish.

LA 100 Legal Procedures ............................................................. 4 credits
Pre-requisites: Working knowledge of MS Word, accurate keyboarding speed of 45 wpm, and placement test scores into WR121 or WR115 or instructor permission. This course is an introduction to the roles and duties of legal support personnel and administrative procedures specific to law offices. Students will explore legal office careers, learn legal terminology, and learn about the attorney/client relationship. Introductory preparation of legal pleadings, correspondence, and documents including contracts, wills and trusts. Extensive coverage of written and oral communications needed for law practice, law office procedures, ethics, legal terminology, the court system, the law library, and notary public duties. Instructor enforced prerequisites: Working knowledge of MS Word, accurate keyboarding speed of 45 wpm, placement test scores into WR 121 and MTH 065 or instructor permission. May be offered online. Offered through Umpqua Community College. A host-provider fee may apply.

LA 101 Introduction to Paralegal Studies ......................................... 3 credits
Prerequisite: LA 100, or instructor consent. An introduction to the role and duties of the paralegal including such topics as regulations of the legal profession, law office management, human relations skills, legal terminology, techniques of interviewing, and methods of discovery. Preparation for assisting in the legal environment by drafting legal pleadings and case briefing. Reviewing local, trial, and state court laws. May be offered online. Offered through Umpqua Community College. A host-provider fee may apply.

LA 102 Legal Terminology ............................................................ 3 credits
In-depth course covering legal terminology used in a typical law office. Students will read and understand legal terminology, and will be able to spell, pronounce, and use legal terms. Practice in use of legal dictionary and thesaurus. May be offered online. Offered through Umpqua Community College. A host-provider fee may apply.

LA 105 Civil Litigation ................................................................. 3 credits
Prerequisite: LA 101 and LA 128, (formerly LGL 202) or instructor consent. This course will focus on the various stages of the civil litigation process. This will include the initial client interview, the process leading to the filing of a civil lawsuit, its resolution by settlement or trial,
and a brief review of the appellate process. The course emphasis will be on the actual preparation of the documents, with a major focus on the discovery phase of the civil litigation process. This course will demonstrate to the student how each stage of civil litigation builds, relates, and is dependent upon the others. May be offered online. Offered through Umpqua Community College. A host-provider fee may apply.

LA 128 Legal Procedures 2................................. 4 credits
Prerequisite: LA 100 (formerly LGL 201), BT 108 (formerly BT 180), and LA 102, or instructor consent. Students will work on legal office projects designed to utilize a project-based approach to completing legal office activities that involve legal document preparation, legal research, internet research, and transcription. Students will depict a law office setting for the projects where the student is to serve as a floating legal assistant for a number of diverse individuals practicing various types of law. May be offered online. Offered through Umpqua Community College. A host-provider fee may apply.

LA 132 Ethics for the Legal Professional......................... 3 credits
Prerequisite: LA 101 and LA 128, or instructor consent. Covers the study of ethics as it relates to the legal profession. Study the concept of “ethics” and “being ethical.” Explore the differences between morality and rules of ethics. Introduce the rules of professional responsibility as they pertain to paralegals (and lawyers). Engage in discussions and opinions of ethical issues in real-world situations. Introduce and enhance legal vocabulary as is used in ethics. Introduce and study the Oregon Rules of Ethics and the practical application. May be offered online. Offered through Umpqua Community College. A host-provider fee may apply.

Literature
For information, contact the Language, Literature and Communication Division, Center Bldg./Rm. 457, 541.463.5419.

ENG 100 Children’s Literature................................. 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success. This course will present to the student a wide range of fiction from various time periods and cultures. Course work will involve students in reading and studying works of children's literature from a literary perspective, discussing the texts from theoretical as well as a pedagogical framework. A major goal of the class is to introduce students to recent and emerging authors to broaden familiarity with current material available to young people.

ENG 104 Introduction to Literature: Fiction ..................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success. This course will present to the student a wide range of fiction from various time periods and cultures. Course work will involve students in reading, writing, and discussing the plays they read. May be offered online.

ENG 105 Introduction to Literature: Drama ..................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success. This course will introduce the student to a wide variety of world plays which may include classical Greek drama, Shakespeare, and modern works of today. Students will engage in reading, writing, and discussion of the plays they read. May be offered online.

ENG 106 Introduction to Literature: Poetry ...................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success. This course will present to the student a wide range of poetry from various time periods and cultures. Course work will involve students in the consideration of poetic technique and expression. Theme, structure, and style will be emphasized, as well as the elements of poetry. At the discretion of the instructor, students may also be required to participate in creative writing assignments to gain insight into the nature of poetry. May be offered online.

ENG 107 Survey of World Literature............................. 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success. Survey of World Literature is a three-term sequence to acquaint students with representative works of important world writers, literary forms, and significant currents of thought. The class is intended primarily for students who aspire to a broad education and who want to expand their reading experience and interpretive skills. The material for fall term comes from the ancient and medieval era.

ENG 108 Survey of World Literature............................. 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) strongly recommended for success. Survey of World Literature is a three-term sequence to acquaint students with representative works of important world writers, literary forms, and significant currents of thought. The class is intended primarily for students who aspire to a broad education and who want to expand their reading experience and interpretive skills. The material for winter term comes from early modern era.

ENG 109 Survey of World Literature............................. 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success. Survey of World Literature is a three-term sequence to acquaint students with representative works of important world writers, literary forms, and significant currents of thought. The class is intended primarily for students who aspire to a broad education and who want to expand their reading experience and interpretive skills. The material for spring term comes from the nineteenth century until the present day.

ENG 121 Detective Fiction........................................ 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success. Detective fiction will provide students with a broad introduction to both early and recent British and American writers with some emphasis on novels and short stories translated into TV programs and film. The course will examine the origins of detective fiction and how the original models have been followed and altered in the roles of the amateur sleuth, the professional investigator (PI), the police, and local citizens as clients. The literature will include hard-boiled male and female detectives, as well as African American and Native American detectives, and will be read from the viewpoint of different literary theories, critical perspectives and addressing issues of gender, race/ethnicity, class, sexuality, and nationality.

ENG 151 Black American Literature............................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success. This course will offer students an intense examination and exploration of black authors. Students will analyze and respond to a wide variety of issues, critical questions, and perspectives regarding how to interpret and define the journey of African Americans and where this path might eventually lead. Novels, short stories, poems, biographies, and critical essays will be studied.

ENG 195 Introduction to Film Studies............................. 0-4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) are strongly recommended for success in this course. Course of a year-long sequence focusing on the history, art, and social contexts of film as an art form. A primary objective of the course is to enhance students’ enjoyment and appreciation of film by developing their cinematic literacy. Students are introduced to the basic elements of film language, including cinematography, mise en scène, editing,
and sound. While American films are emphasized, the sequence also focuses at times on international cinema, looking at all films in the context of time, culture, and ideological effects. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements. A variety of assignments and activities develop and test students’ “ways of seeing.” ENG 195 focuses on the formal elements of the shot: cinematography, mise en scène, blocking, and movement.

ENG 196 Introduction to Film Studies ..................... 0-4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success in this course. ENG 196 is the second course of a year-long sequence focusing on the history, art, and social contexts of film as an art form. A primary objective of the course is to enhance students’ enjoyment and appreciation of film by developing their cinematic literacy. Students are introduced to the basic elements of film language, including cinematography, mise en scène, editing, and sound. While American films are emphasized, the sequence also focuses at times on international cinema, looking at all films in the context of time, culture, and ideological effects. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements. A variety of assignments and activities develop and test students’ “ways of seeing.” ENG 196 reviews the elements of film style relating to the individual film shot, but it emphasizes the formal means by which shots are built into the larger structures of scene, segment, and finished film: editing, sound, subtext, language, and narrative structure (e.g., editing sequence shots, continuity editing, montage and editing techniques - on the types and uses of film: foley, dialogue, theme music, etc.).

ENG 197 Introduction to Film Studies ..................... 0-4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success in this course. ENG 197 is the third course of a year-long sequence focusing on the history, art, and social contexts of film as an art form. A primary objective of the course is to enhance students’ enjoyment and appreciation of film by developing their cinematic literacy. Students are introduced to the basic elements of film language, including cinematography, mise en scène, editing, and sound. While American films are emphasized, the sequence also focuses at times on international cinema, looking at all films in the context of time, culture, and ideological effects. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements. A variety of assignments and activities develop and test students’ “ways of seeing.” ENG 197 centers on filmed cinema around a theme, topic or director. Recent themes include “Film and the American Dream” or “American Independent Cinema.” Providing an overview of film language, the course explores the style of the featured films and/or director and looks at their historical contexts and ideological effects relating to such contested areas of social experience as race, class, gender, sexuality, and nation.

ENG 201 Shakespeare ........................................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success in this course. One scholar suggests that Shakespeare’s works “remain the outward limit of human achievement”; they fascinate us because we “cannot catch up to them.” Nevertheless, we will have fun running after them. This survey explores the works of Shakespeare, covering 3-5 plays and at least one sonnet each term. Instructors might divide the plays by theme, genre, or chronology. ENG 201 may include Hamlet and/or King Lear.

ENG 203 Shakespeare ........................................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success in this course. One scholar suggests that Shakespeare’s works “remain the outward limit of human achievement”; they fascinate us because we “cannot catch up to them.” Nevertheless, we will have fun running after them. This survey explores the works of Shakespeare, covering 3-5 plays and at least one sonnet each term. Instructors might divide the plays by theme, genre, or chronology. ENG 203 may include Hamlet and/or King Lear.

ENG 204 Survey of British Literature ....................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success in this course. Survey of British Literature is a two-term sequence to acquaint students with representative works of important British writers, literary forms, and significant currents of thought. The material for the first term comes from the Anglo-Saxon era, the Middle English period, and the Renaissance, through Milton. Each course may introduce students to different methodological perspectives/lenses through which to read and interpret literary texts, and may include developing an understanding of the social, political and cultural contexts in which texts are produced and interpreted. Primary emphasis is on reading and engaging with the literary materials.

ENG 205 Survey of British Literature ....................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success in this course. Survey of British Literature is a two-term sequence to acquaint students with representative works of important British writers, literary forms, and significant currents of thought. The second term includes British literature of the late 17th century through the modern period. Each course may introduce students to different methodological perspectives/lenses through which to read and interpret literary texts, and may include developing an understanding of the social, political and cultural contexts in which texts are produced and interpreted. Primary emphasis is on reading and engaging with the literary materials.

ENG 213 Survey of Asian Literature ....................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success in this course. This course combines research into the impact of 21st century technologies and new media on the study of literature and culture with the use of digital humanities methods to analyze texts and create new knowledge and new theoretical and ethical considerations and other developments in the field.

ENG 214 Gender and Genre .................................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success. This course introduces students to historic and contemporary literature, comprised of poetry, fiction, essays, and drama, from nations and regions that are, or have been, strongly associated with the Islamic faith.

ENG 215 Latino/a Literature ................................. 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) strongly recommended for success. This course introduces students to historic and contemporary literature, comprised of poetry, fiction, essays, and drama, from nations and regions that are, or have been, strongly associated with the Islamic faith.
ENG 240 Nature Literature ........................................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. Survey of American Literature is a two-term sequence to acquaint students with representative works of important American writers, literary forms, and significant currents of thought. Primary emphasis is on reading and engaging with the literary materials, with an introduction to practices of literary interpretation. Questions of genre, authorship, aesthetics, and literary movements may be examined in their relationships to social, political, and intellectual movements in the United States. The first term will draw on material from colonial settlement in the Americas through the Civil War period.

ENG 250 Introduction to Folklore and Mythology .............. 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. The nature and formal principles of studying folklore and myth will be introduced and illustrated through a variety of texts, folk artifacts, and thematic ideas, including world-wide examples that extend beyond Western cultures. Students will examine folklore and myth in their aesthetic, historical, cultural, political, and social contexts. The class will also examine recurring themes regarding the development of attitudes, values, and identities as expressed within the body of literature.

ENG 253 Survey of American Literature .......................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. Survey of American Literature is a two-term sequence to acquaint students with representative works of important American writers, literary forms, and significant currents of thought. Primary emphasis is on reading and engaging with the literary materials, with an introduction to practices of literary interpretation. Questions of genre, authorship, aesthetics, and literary movements may be examined in their relationships to social, political, and intellectual movements in the United States. The second term will include literature from the end of the 19th century to the present.

ENG 257 The American Working Class in Fiction and Non-Fiction .................................................. 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. The course will familiarize students with the literary works narrated and translated by anthropologists to modern works by Linda Hogan and N. Scott Momaday. These texts will be studied in their historical contexts, as well as their cultural contexts. Speakers and films will play an important role in this course. The goal of the class is to present a fuller picture of the voices and visions of Native Americans.

ENG 243 Native American Autobiography .......................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. This course will introduce students to a new way of seeing the world they live in as they read the lives of Native Americans written by themselves. Autobiographies studied will range from early historical works narrated and translated by anthropologists to modern works by Linda Hogan and N. Scott Momaday. These texts will be studied in their historical contexts, as well as their cultural contexts. Speakers and films will play an important role in this course. The goal of the class is to present a fuller picture of the voices and visions of Native Americans.

ENG 259 African American Poetry, Plays and Film .............. 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. This course will introduce students to the richness and variety of literary works written by women. Issues that concern women writers, the impact of stories, and how class, race, and gender work to construct the stories we live by will be central to the course. Students will consider fiction written by women writers in a global context historically to the present day. The course will also engage students in materials written by American writers of Pacific Islander ancestry. Students will consider such literature in its aesthetic, historical, cultural, political, and social contexts. The class will also examine recurring themes regarding the development of attitudes, values, and identities as expressed within the body of literature.

ENG 260 Introduction to Women Writers .......................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. This course will familiarize students with the literary works narrated and translated by anthropologists to modern works by Linda Hogan and N. Scott Momaday. These texts will be studied in their historical contexts, as well as their cultural contexts. Speakers and films will play an important role in this course. The goal of the class is to present a fuller picture of the voices and visions of Native Americans.

ENG 261 Science Fiction ........................................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. The course will familiarize students with the literary works narrated and translated by anthropologists to modern works by Linda Hogan and N. Scott Momaday. These texts will be studied in their historical contexts, as well as their cultural contexts. Speakers and films will play an important role in this course. The goal of the class is to present a fuller picture of the voices and visions of Native Americans.

ENG 270 Bob Dylan: American Poet .......................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) are strongly recommended for success in this course. This course will focus primarily on the poetry and politics of Bob Dylan’s work. Textual analysis will lead to understanding of Dylan’s musical and literary sources, and his influence in our culture, will also be explored.

ENG 271 Film Genre: Horror .................................. 0-4 credits
Prerequisite: A passing score (C- or better) in WR 115 or its equivalent or instructor permission. This course will examine the history of the horror film from the silent era to the present, focusing mainly on U.S. texts. The class will explore various theories of the horror genre, the history and social context of horror cycles, and the representation of class, gender, sexuality, nationality, and ethnicity as they relate to practices of continuing horror. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements.

ENG 272 Film Genre: Film Comedy .......................... 0-4 credits
Prerequisite: A passing score (C- or better) in WR 115 or its equivalent or instructor permission. This course will focus on film comedy, a loosely defined genre that spans the silent era to the present. Starting with silent films, the course will focus on film comedy across the decades, and may include the following subgenres: slapstick,
screwball comedy, farce, romantic comedy, black comedy, parody/satire, and/or gross-out comedy. Students will be introduced to various theories of the genre as well as historical, political, and social issues related to representative texts. Weekly screenings are required, and clips of films are used for close analysis of aural and visual elements.

ENG 273 Film Genre: Film Noir ..........................................0-4 credits Prerequisite: A passing score (C- or better) in WR 115 or its equivalent, or instructor permission. This course will focus on film noir — a type of film featuring hard-boiled detectives, dangerous urban landscapes, intricate plots, and complex themes that flourished in the U.S. between 1948-1958. The class will concentrate on the question of definition: is noir a genre, a style, a mood, or a movement? Students will read various theories about noir and examine classical and contemporary films, measuring them against competing definitions of the genre. The course will also focus on the historical and social context of noir as well as issues of gender, race/ethnicity, class, sexuality, and nationality as they relate to noir. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements.

FA 263 Film in the Fifties ..................................................0-4 credits Prerequisite: A passing grade (C- or better) in WR 115 or placement into WR 121. This course introduces students to the 1950s as a complex decade in American history through films from and about the era that epitomize the cultural tensions and darker historical currents that define it, demythologizing the fifties as a golden age of innocence and simplicity. Historical and critical readings supplement the screening of classic films and provide direction for class discussion, exams, and critical essays that help students develop critical skills and cineliteracy. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements.

FA 264 Women Make Movies .............................................0-4 credits Prerequisite: A passing grade (C- or better) in WR 115 or placement into WR 121. This course focuses on women directors around the world and the contributions they have made to film (and video). Students will be introduced to the historical and economic context of film production as well as to a formalist film vocabulary. They will explore readings in feminist scholarship and analyze women-authored cinema — narrative, experimental, and documentary — in the context of race, ethnicity, gender, sexuality, class, and nationality. Films will span the silent period to the present. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements.

FA 265 African American Film Images ..............................0-4 credits Prerequisite: A passing grade (C- or better) in WR 115 or placement into WR 122. This course gives students an introduction to African Americans’ role in the history of Hollywood filmmaking, and the social, educational, and political climates that follow this cultural phenomenon of moviemaking. Several critical texts will reveal the historically complex and difficult relationship between black Americans and their desire to become an active, integral part of all aspects of the American film industry. Screenings of important films, class discussions, inside and outside of class group work, exams, and other relevant critical readings are essential aspects in guiding students’ understanding of the peculiar problems offsetting African Americans’ full, rigorous admittance into the Hollywood system.

Machine Shop, Machine Tools - See Manufacturing

Management - See Business and Hospitality Management

Manufacturing

For information, contact the Advanced Technology Division, Bldg. 12Rm. 201, 541.473.3380.

ENG 280M Co-op Ed: Manufacturing Technology ..........3-12 credits This course provides students with manufacturing-related learning in business-related industrial sites to integrate theory and practice gained in the classroom with practical experience in the professional world. Students may develop skills, explore career options and network with professionals and employers while earning credit toward a degree.

MFG 197 Manufacturing Technology ................................1-6 credits MFG 197 covers theory, setup and operation of conventional (manual) machine tools and related tooling. Course includes materials, speeds and feeds, measuring tools, cutting tool geometry and selection. Develop competencies in troubleshooting setups, shop blue print reading and mathematics. This course is designed for core student tools. Manufacturing Technology MFG 197 is an open-entry/open-out variable credit course. It is suggested that majors NOT schedule less than 6 credits of MFG 197 per term (instructor approval is required to schedule less than 6 credits). It is recommended that six terms be the target maximum for completion of MFG 197, 12 credits’ term 1-8 lecture, 3-12 lab hrs/wk. Upon satisfactory completion of 66 credits (528 lecture, 792 lab hrs) the student has completed MFG 197.

MFG 201 CNC Mill .....................................................1-6 credits Development of the skills required to program, operate, and produce parts on the computer numerical control (CNC) 3 axis mill. Topics include: history of NC/CNC, computer to machine interface including feedback and adaptive control, understanding the G-code language required to efficiently program the machine tool from a part drawing, modern cutting tools and part fixtures for CNC operations, set-up and operation of CNC milling machines including machining centers with automatic tool changers. This course will be presented by lectures, demonstrations, and hands-on experience.

MFG 202 CNC Lathe ...................................................1-6 credits Development of the skills required to program, operate, and produce parts on the computer numerical control (CNC) lathe. Topics include: history of NC/CNC, computer to machine interface including feedback and adaptive control, understanding the G-code language required to efficiently program the machine tool from a part drawing, modern cutting tools and part fixtures for CNC operations, set-up and operation of CNC lathes including turning centers with automatic tool changers. This course will be presented by lectures, demonstrations, and hands-on experience.

MFG 208 CNC Special Projects ........................................1-9 credits Prerequisite: MFG 201 and MFG 202. Overview of advanced uses of computers in manufacturing including rapid prototyping systems, flexible manufacturing systems, and computer integrated manufacturing. Students will utilize the skills developed in MFG 201 and MFG 202 to create individualized projects demonstrating initial product design concepts, process planning, CNC code generation, and product production on the LCC CNC machines. This course will be presented by lectures, demonstrations, and hands-on experience.

MFG 210 CAM 1 .........................................................3 credits Prerequisite: MFG 201 and MFG 202, Or instructor consent. Introduction to Mastercam Aided Manufacturing CAM, and its application in modern industry. Development of the basic skills required to use Mastercam software for CNC Milling. Primary emphasis is on CAM for 3 axis CNC machining centers. Topics include: geometry creation, importing CAD drawings, assigning work planes, determining correct cutting tools and tool paths, solid model machining simulation, and creating CNC code. Introduction to multi-work plane 4 axis milling. Demonstration of the CAD/CAM/CNC process workflow using Mastercam software to create machine code for the LCC machining center. This course will be presented by means of lectures, demonstrations, and hands-on experience.

MFG 211 CAM 2 .........................................................3 credits Prerequisite: MFG 210 OR instructor consent. Utilization of the basic Mastercam software skills learned in MFG 210 applied to programming CNC lathes. Primary emphasis is on 2 axis turning centers. Introduction to CAM for multiple spindle, multiple axis turning centers. Orientation to CAM for milling complex 3D surfaces and mold cavities which will be further developed in MFG 212. Demonstration of the CAD/CAM/CNC process workflow using Mastercam software to create machine code for the LCC machining center. This course will be presented by means of lectures, demonstrations, and hands-on experience.

RTEC 100 Basic Career Technical Skills .........................2-6 credits This course explores the basic skills for entering technical careers in computer aided design (CAD), mechanical, manufacturing, aviation, electronics, etc. The course includes: safety, math, tools, basic electricity, basic hydraulics, employability skills, rigging, blue prints, and communication. Students may not receive credit for both RTECH 100 and APPR 101.
Mathematics: Self-Paced Format

Students wishing to take a variable credit, self-paced format math course must obtain instructor permission. This permission is obtained after an orientation in the Math Resource Center (MRC) in Bldg. 16/Rm. 169 on one of the first two days of the term. Orientation times: Mon/Tu 9 a.m., 11 a.m., 1 p.m. and Tu 6 p.m.

For information, contact the Math Resource Center, Bldg. 16/Rm.169, 541.463.5399 or lanecc.edu/math/math-resource-center.

MTH 020A Math Renewal: Part A ...........................................1 credit
This is Part A of a three part, individual credit, sequence of courses that when completed are equivalent to MTH 020.

Prerequisite: Within the past four terms completed MTH 010A, MTH 010T or equivalent courses with a grade of “C-” or better, or pass a placement test through the Testing Office. If you have taken a higher-level math course than this and passed the course with a “C-” or better, you may not use this course for your degree/certificate requirements. This course is a review of operations with whole numbers and fractions including rounding, estimation, order of operations and problem solving. It also incorporates proper fraction notation and exponential notation. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 020B Math Renewal: Part B ........................................................................1 credit
This is Part B of a three part, individual credit, sequence of courses that when completed are equivalent to MTH 020.

Prerequisite: Within the past four terms completed MTH 020A or equivalent course with a grade of “C-” or better. If you have taken a higher-level math course than this and passed the course with a “C-” or better, you may not use this course for your degree/certificate requirements. This course begins with a review of operations with decimals including rounding, estimation, order of operations and problem solving. This review is follow by an introduction to ratios, proportions and percent notation. Each new topic incorporates review of previously learned skills and application problems. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 020C Math Renewal: Part C ........................................................................1 credit
This is Part C of a three part, individual credit, sequence of courses that when completed are equivalent to MTH 020.

Prerequisite: Within the past four terms completed MTH 020A and MTH 020B or equivalent courses with a grade of “C-” or better. If you have taken a higher-level math course than this and passed the course with a “C-” or better, you may not use this course for your degree/certificate requirements. This course begins with an introduction to data and statistics including averages and reading graphs. It then focuses on measurement and unit conversions and finishes with an introduction to geometry in a problem-solving context. Each new topic incorporates review of previously learned skills and application problems. The last exam for this credit will be comprehensive over the material in the entire MTH 020 course. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 022 Number Reasoning .................................................................1 credit
Prerequisite: Within the past four terms completed MTH 020 or equivalent course with a grade of “C-” or better or pass a placement test through the Testing Office. This is a self-paced course under the supervision of an instructor. This course will test students ability to perform basic math operations by hand and to evaluate whether an answer is of reasonable size. Upon entering this course, students are expected to be able to calculate by hand basic math problems involving decimals, fractions, percents, ratios and proportions. In addition to reviewing these basic math skills, this course will provide practice in comparing, estimating and reflecting on the reasonableness of answers.

MTH 058 Word Problems in Algebra ........................................................1 credit
Prerequisite: Within the past four terms completed MTH 060 or equivalent course with a grade of “C-” or better or pass a placement test through the Testing Office. This is a self-paced course under the supervision of an instructor. This course requires some beginning algebra skills. It covers methods for solving standard word problems using basic algebra skills.

MTH 060A Beginning Algebra: Part A .................................................1 credit
This is Part A of a four part, individual credit sequence of courses that when completed are equivalent to MTH 060.

Prerequisite: Within the past four terms completed MTH 020 or equivalent courses with a grade of “C-” or better or pass a placement test through the Testing Office. This course begins with an introduction to real numbers and mathematical expression in algebra. It then covers operations with real numbers and using exponents and order of operations. Each new topic incorporates review of previously learned skills and application problems. MTH 060 is the first term of a two-term sequence in introductory algebra which prepares students for Elementary Algebra, MTH 065. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 060B Beginning Algebra: Part B .................................................1 credit
This is Part B of a four part, individual credit sequence of courses that when completed are equivalent to MTH 060.

Prerequisite: Within the past four terms completed MTH 060A or equivalent course with a grade of “C-” or better. This course covers solving linear equations in one variable. It also includes solving formulas and an introduction to problem solving with linear equations. Each new topic incorporates review of previously learned skills and application problems. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 060C Beginning Algebra: Part C .................................................1 credit
This is Part C of a four part, individual credit sequence of courses that when completed are equivalent to MTH 060.

Prerequisite: Within the past four terms completed MTH 060A and MTH 060B (or equivalent course) with a grade of “C-” or better. This course covers problem solving in geometry, linear inequalities in two variables, and linear equations. Each new topic incorporates review of previously learned skills and application problems. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 060D Beginning Algebra: Part D .................................................1 credit
This is Part D of a four part, individual credit sequence of courses that when completed are equivalent to MTH 060.

Prerequisite: Within the past four terms completed MTH 060A, MTH 060B, and MTH 060C (or equivalent course) with a grade of “C-” or better. This course covers linear equations in two variables, including graphing, slope, and writing linear equations from given information. Each new topic incorporates review of previously learned skills and application problems. The last exam for this credit will be comprehensive over the material in the entire MTH 060 course. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 071 Informal Geometry .................................................................2 credits
Prerequisite: Within the past four terms completed either MTH 060, MTH 070, or equivalent courses with a grade of “C-” or better or pass a placement test through the Testing Office. This is a self-paced course under the supervision of an instructor. This informal course in elementary geometry requires elementary algebra skills. Topics include angles, parallel and perpendicular lines, polygons, polyhedra, transformations, triangles, congruence, quadrilaterals, and the coordinate plane. Basic vocabulary and elementary relationships are stressed. Suitable for students with little background in geometry and who want new concepts introduced one at a time. MTH 071 and MTH 072 do not satisfy the geometry prerequisites for Trigonometry MTH 112 or Calculus 1 MTH 251.

MTH 072 Informal Geometry .................................................................2 credits
Prerequisite: MTH 071 or equivalent course completed with a grade of “C-” or better within the past four terms. Instructor permission required. A self-paced course under the supervision of an instructor. This course includes concepts and computation of perimeter, area, surface area, and volume; applications of similar figures; the Pythagorean Theorem, and elementary trigonometric ratios; attributes and measurement of circles, prisms, pyramids, cones, and cylinders; and transformations related to coordinate geometry. MTH 071 and MTH 072 do not satisfy the geometry prerequisites for Trigonometry MTH 112 or Calculus 1 MTH 251.

MTH 095A Intermediate Algebra: Part A .............................................1 credit
This is Part A of a five part, individual credit sequence of courses that when completed are equivalent to MTH 095. Prerequisite: Within the past four terms completed MTH 065 or MTH 070 or equivalent courses with a grade of “C-” or better, or pass a placement test through the Testing Office. If you have taken a higher-level math course than MTH 095 and passed the course with a “C-” or better,
MTH 020 Basic Mathematics Applications..........................3 credits
Prerequisite: Within the past four terms completed MTH 020 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. Basic skills in fractions, decimals, percents, ratios, and algebraic expressions. May be offered online.

MTH 025 Math for Introductory Physical Science..................4 credits
Prerequisite: Within the past four terms completed MTH 020 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. This is a pre-algebra level course to prepare students to take professional technical mathematics used in chemistry, dosage computation, and other science-related courses. Topics include unit conversions, metrics, scientific notation, significant figures, rates, proportions, percent applications, graphs, algebra of units, and logarithms for pH. May be offered online.

MTH 052 Math for Introductory Physical Science..................4 credits
Prerequisite: Within the past four terms completed MTH 020 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. This is a pre-algebra level course to prepare students to take professional technical mathematics used in chemistry, dosage computation, and other science-related courses. Topics include unit conversions, metrics, scientific notation, significant figures, rates, proportions, percent applications, graphs, algebra of units, and logarithms for pH. May be offered online.

MTH 060 Beginning Algebra...........................................4 credits
Prerequisite: Within the past four terms completed MTH 020 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. This is the first term of a two-term sequence in introductory algebra. Topics include a selective review of arithmetic, tables and graphs, signed numbers, problem solving, linear equations, ratio and proportion, and unit analysis. MTH 060 prepares students for Elementary Algebra, MTH 065. MTH 060 and MTH 065 provide a two-term sequence preparatory to Intermediate Algebra, MTH 095. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 065 Elementary Algebra.........................................4 credits
Prerequisite: Within the past four terms completed MTH 060 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. This is the second term of a two-term sequence in introductory algebra. Students having successfully completed MTH 060 should continue with this course in preparation for taking Intermediate Algebra (MTH 095). Topics include systems of linear equations, polynomials, factoring, quadratic equations, rational expressions, exponents, and radicals. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 070 Introductory Algebra.........................................5 credits
Prerequisite: Within the past four terms placed into MTH 070 through the Testing Office. MTH 070 is a fast paced review of algebra for students with recent algebra experience. For students without recent algebra experience, MTH 060 and MTH 065 provide a more relaxed and thorough introduction to the subject. (Qualified students who are unsure whether to take MTH 070 or MTH 060 should seek the advice of a Counselor or Advisor.) MTH 070 prepares students for Intermediate Algebra (MTH 095). Topics include a selective review of arithmetic, tables and graphs, signed numbers, problem solving, linear equations, ratio and proportion, unit analysis, systems of linear equations, polynomials, factoring, quadratic equations, rational expressions, exponents, and radicals. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 075 Applied Algebra for Technicians.................................4 credits
Prerequisite: Within the past four terms completed MTH 020 with a grade of “C-” or better or passed a placement test through the Testing Office. MTH 075 Applied Algebra is a first course in professional technical mathematics used in chemistry, dosage computation, and other science-related courses. Topics include unit conversions, metrics, scientific notation, significant figures, rates, proportions, percent applications, graphs, algebra of units, and logarithms for pH. May be offered online.
signed numbers, positive and negative exponents, scientific notation, the Cartesian coordinate system, linear equations and their graphs, linear systems and their graphs, quadratic equations and their graphs, forming expressions and equations from real situations. Oblique triangle trigonometry is an optional topic. Fraction skills will be reviewed as needed. The course will emphasize clear communication of mathematical results. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 085 Applied Geometry for Technicians ................. 4 credits
Prerequisite: Within the past four terms completed MTH 065 with a grade of “C-” or better or gain instructor permission. MTH 085 Applied Geometry includes the following: angle measure, properties of systems with parallel, perpendicular, and oblique lines; perimeter and area of polygons and circles; surface area and volume of solid figures such as prisms and pyramids; similarity, ratio, and proportion. Elementary algebra (use of variables, equation solving, relations and functions), and an introduction to probability. A scientific calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 095 Intermediate Algebra ........................................ 5 credits
Prerequisite: Must be completed with a “C-” or better within the past four terms. This course is an introduction to the graphing calculator, emphasizing skills necessary for success in MTH 111. No graphing calculator skills are required. Topics include: evaluating expressions, graphing functions, solving equations graphically, and effective use of tools offered by the graphing calculator to solve mathematical problems. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 096 Using the Scientific Graphing Calculator ............... 1 credit
Prerequisite or Co-requisite: MTH 095 or MTH 111. Prerequisites must be completed with a “C-” or better within the past four terms. This course is an introduction to the graphing calculator, emphasizing skills necessary for success in MTH 111. No graphing calculator skills are required. Topics include: evaluating expressions, graphing functions, solving equations graphically, and effective use of tools offered by the graphing calculator to solve mathematical problems. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 097 Geometry ........................................................... 4 credits
Prerequisite: Within the past four terms completed MTH 095, MTH 111, or equivalent course with a grade of “C-” or better passed a placement test through the Testing Office. A course in informal geometry covering the study of lines, planes, polygons, circles, solids, area, perimeter, volume, surface area, Pythagorean Theorem, congruence, and similar figures. Applications and exploration of geometry topics rather than proofs will be stressed. This course is the equivalent prerequisite for MTH 112, 231, and 251. MTH 097 is strongly recommended for MTH 111 and MTH 211. Scientific calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 105 Introduction to Contemporary Mathematics .............. 4 credits
Prerequisite: Within the past four terms completed MTH 095 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. Survey of Applications of Mathematics. Emphasis is on problem solving, elementary statistics, introductory geometry (basic definitions/vocabulary, polygons, angles, 2-3 dimensional geometry, congruence, constructions, similarity), transformational geometry, and measurement systems. A scientific calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 106 Introduction to Contemporary Math 2 .................... 4 credits
Prerequisite: MTH 105 completed with a grade of “C-” or better within the past four terms. College Now offering only. The second of a two-semester sequence involving problem solving with a variety of applications of mathematics. These applications include elementary probability and at least two of the following topics: history and uses of geometry, matrices and linear systems, Markov chains, game theory, graph theory involving routing and networks, mathematics of voting and apportionment, or other topics approved by the Mathematics Division.

MTH 111 College Algebra .................................................. 5 credits
Prerequisite: Within the past four terms completed MTH 095 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. MTH 097 is strongly recommended. College Algebra is the study of basic functions and their applications. This introduction to functions, rational, exponential, and logarithmic functions and their inverses. Other topics include an introduction to sequences and non-linear systems of equations. In accordance with national recommendations, this course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math. However, students will be held accountable for many skills without a calculator.

MTH 112 Trigonometry ....................................................... 4 credits
Prerequisite: Within the past four terms completed both MTH 097 and MTH 111 or equivalent courses with a grade of “C-” or better or passed placement tests through the Testing Office. Trigonometry has many applications in the world around us. It is a foundation for construction, physics, and engineering. Trigonometry is preparatory for Calculus 1 (Differential Calculus, MTH 251). The major topics covered include radian measure, circular functions and their graphs, right triangle ratios and related trigonometric functions, identities, solving triangles, the law of sines, the law of cosines, and applications. Other topics include polar coordinates, parametric equations, vectors, and conic sections. A graphing calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 211 Fundamentals of Elementary Mathematics 1 ............ 4 credits
Prerequisite: Within the past four terms completed MTH 097 or equivalent course with a grade of “C-” or better or pass a placement test through the Testing Office. MTH 097 is strongly recommended. Course includes a survey of mathematical topics for those interested in the presentation of mathematics at the K-9 levels. A variety of manipulative and heuristic problem solving strategies are used. Emphasis is on problem solving, patterns, sequences, set theory, an introduction to logic, numeration systems, number bases, arithmetic operations with whole numbers and integers, and number theory. A scientific calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 212 Fundamentals of Elementary Mathematics 2 ............ 4 credits
Prerequisite: MTH 211 with a grade of “C-” or better completed within the past four terms. Geometry, MTH 097, is strongly recommended. Surveys mathematical topics for those interested in the presentation of mathematics at the K-9 levels. A variety of manipulative and heuristic problem solving strategies are used. Emphasis is on problem solving, rational numbers (as fractions and decimals), irrational and real numbers, proportional reasoning, percent, using elementary algebra (use of variables, equation solving, relations and functions), and an introduction to probability. A scientific calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 213 Fundamentals of Elementary Mathematics 3 ............ 4 credits
Prerequisite: MTH 211 or MTH 212 with a grade of “C-” or better completed within the past four terms. Geometry, MTH 097, is strongly recommended. A survey of mathematical topics for those interested in the presentation of mathematics at the K-9 levels. A variety of manipulative and heuristic problem solving strategies are used. Emphasis is on problem solving, elementary statistics, introductory geometry (basic definitions/vocabulary, polygons, angles, 2-3 dimensional geometry, congruence, constructions, similarity), transformational geometry, and measurement systems. A scientific calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 231 Discrete Mathematics ....................................... 4 credits
Prerequisite: Within the past four terms completed MTH 112 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. First course in three-term sequence fulfilling the Discrete Mathematics requirement for enrolling in upper division in computer science courses at the University of Oregon and Oregon State University. Topics include formal logic, methods of
COURSE DESCRIPTIONS

Pre-College Mathematics

Whole Numbers Fractions & Decimals
MTH 010A

Math Renewal MTH 020*

Basic Math Applications MTH 025
Math for Physical Science MTH 052

Beginning Algebra MTH 060*

Elementary Algebra MTH 065*

Intermediate Algebra MTH 095*

Placement Test required

Introductory Algebra MTH 070

Applied Algebra for Tech MTH 075

Applied Geometry for Tech MTH 085

Graphing Calculator MTH 096

Co-requisite of MTH 095 or higher.

Geometry MTH 097

MTH 097 is required for MTH 112 and is recommended for both MTH 111 and MTH 211-213.

* This course is also available in a variable credit self-paced format but students must obtain instructor permission in order to register. This permission is obtained after an orientation in the Math Resource Center (MRC) in Bldg. 16/Rm. 169 on one of the first two days of the term.

College-Level

Intro to Contemp. Math MTH 105

College Algebra MTH 111

Fund. of Elem. Math MTH 211, 212, & 213

Intro to Prob. & Statistics MTH 243

Elem. Calculus MTH 241 & 242

Trigonometry MTH 112

Calculus MTH 251 & 252

Discrete Math MTH 231, 232, & 233

Linear Algebra MTH 260 or 261

Statistics for Science & Engineers MTH 265

Calculus MTH 253 & 254

Vector Calculus 2 MTH 255

Applied Differential Equations MTH 256

Either MTH 105 or MTH 111 may be used as prerequisite for MTH 243.

Prerequisite or Co-requisite of MTH 252 or higher for MTH 260 and 261.

Note: For each Math course, enrollment requires passing either the prerequisite course with a “C-” or better, or passing a placement test in the Testing Office within the past 4 terms.
proof, sequences, recursion and mathematical induction. The order of the topics may vary with instructor and text. Scientific Calculator may be required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 232 Discrete Mathematics 2 .............................................4 credits
Prerequisite: MTH 231 completed with a grade of “C-” or better within the past four terms. Second course in three-term sequence fulfilling the Discrete Mathematics requirement for enrolling in upper division Computer Science courses at the University of Oregon and Oregon State University. Topics include set theory, combinatorics, counting techniques, functions, relations, and probability. The order of the topics may vary with instructor and text. Scientific Calculator may be required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 233 Discrete Mathematics 3 .............................................4 credits
Prerequisite: MTH 232 completed with a grade of “C-” or better within the past four terms. Third course in three-term sequence fulfilling the Discrete Mathematics requirement for enrolling in upper division Computer Science courses at the University of Oregon and Oregon State University. Topics include Boolean Algebra, relations, modular arithmetic, group theory, graphs and trees. The order of the topics may vary with instructor and text. Scientific Calculator may be required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 241 Elementary Calculus 1 .............................................4 credits
Prerequisite: Within the past four terms completed MTH 111 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. Differential calculus (without Trigonometry) for business and social sciences. Integration and applications for single variable functions, techniques of integration, partial differentiation methods for multivariate functions and their relative extrema. Graphing Calculator may be required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 242 Elementary Calculus 2 .............................................4 credits
Prerequisite: MTH 241 completed with a grade of “C-” or better within the past four terms. Integral calculus (without Trigonometry) for business and social sciences. Integration and applications for single variable functions, techniques of integration, partial differentiation methods for multivariate functions and their relative extrema. Graphing Calculator may be required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 243 Introduction to Probability and Statistics ..................4 credits
Prerequisite: Within the past four terms completed either MTH 105 or MTH 111, or equivalent courses with a grade of “C-” or better or passed a placement test through the Testing Office. Probability concepts of discrete and continuous probability, data description and analysis, measures of central tendency and variability, sampling distributions, and basic concepts of statistical inference, including confidence intervals, hypothesis testing, correlation, and regression. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 251 Calculus 1 (Differential Calculus) ..............................5 credits
Prerequisite: Within the past four terms completed MTH 112 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. MTH 251 is a first-term calculus course that includes a selective review of precalculus followed by development of the derivative from the perspective of rates of change, slopes of tangent lines, and numerical and graphical limits of difference quotients. The limit of the difference quotient is used as a basis for formulating analytical methods that include the power, product, and quotient rules. The chain rule and the technique of implicit differentiation are developed. Procedures for differentiating polynomial, exponential, logarithmic, and trigonometric functions are formulated. Analytical, graphical, and numerical methods are used to support one another in developing the course material. Opportunities are provided for students to work in groups, verbalize concepts with one another, and explore concepts and applications using technology. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 252 Calculus 2 (Integral Calculus) .................................5 credits
Prerequisite: MTH 251 or equivalent course completed with a grade of “C-” or better within the past four terms. MTH 252 is a second-term calculus course covering definite and indefinite integrals. Specific topics include conceptual development of the definite integral, properties of the definite integral, the first and second Fundamental Theorems of Calculus, constructing anti-derivatives, techniques of integration, approximating definite integrals, and applications. Analytical, graphical, and numerical methods are used to support one another in developing the course material. Opportunities are provided for students to work in groups, verbalize concepts with one another, and explore concepts and applications using technology. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 253 Calculus 3 (Infinite Series and Sequences) ...............5 credits
Prerequisite: MTH 252 completed with a grade of “C-” or better within the past four terms. This is the third term of a six-term sequence. Indeterminate forms and improper integrals. Sequences and series. Investigation of the convergence of series. Topics include: Indeterminate forms and improper integrals. Parametric and polar equations and conics. Sequences and series. Investigation of the convergence of series. Taylor series and power series. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 254 Vector Calculus 1 (Introduction to Vectors and Multidimensions) .............................................4 credits
Prerequisite: MTH 253 completed with a grade of “C-” or better within the past four terms. This is the fourth term of a six-term sequence. Major emphasis is on three-dimensional vectors and differential calculus of several variables. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 255 Vector Calculus 2 (Introduction to Vector Analysis) .............................................4 credits
Prerequisite: MTH 254 completed with a grade of “C-” or better within the past four terms. This is the fifth term of a six-term sequence. Major emphasis is on multiple integration, vector fields, and applications. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 256 Applied Differential Equations ................................4 credits
Prerequisite: MTH 254 with a grade of “C-” or better completed within the past four terms. This is the last of a six-term sequence. The course covers methods of solving ordinary differential equations and includes elementary methods, convergent power series and numerical methods, with applications to physical engineering science. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 260 Linear Algebra .....................................................4 credits
Prerequisite: Within the past four terms completed MTH 112 with a grade of “C-” or better or passed a placement test through the Testing Office. Or Co-requisites: MTH 231 or MTH 251. This course provides a foundation of linear algebra concepts and terminology. Topics include linear systems, vector spaces, matrices, determinants, eigenvalues, eigenvectors and complex numbers. Students will learn and apply basic operations of matrix algebra, and interpret the concepts of vector spaces from a geometric perspective. They will apply linear algebra techniques to problems in applied mathematics, including transformations, Markov chains and numerical methods such as Gaussian Elimination. A graphing calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 261 Introduction to Linear Algebra .................................2 credits
Prerequisite or Corequisite: MTH 252, MTH 253, MTH 254, MTH 255 or MTH 256. Prerequisites must be completed with a “C-” or better within the past four terms. The course covers systems of linear equations, vectors in a geometric setting, real vector spaces, matrices, operations on matrices, inversion of matrices, determinants, linear transformations, dot product and cross product, and eigenvalues and eigenvectors. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.

MTH 265 Statistics for Scientists and Engineers ......................4 credits
Prerequisite: MTH 252 completed with a grade of “C-” or better within the past four terms. A calculus-based introduction to probability and statistics with applications to science and engineering disciplines. Topics include: data description and analysis, discrete and continuous probability theory, common probability distributions, sampling distributions, estimation, hypothesis testing, control charts, regression analysis, and experimental design. Graphing Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math.
reviews the elements of film style relating to the individual film shot, but it emphasizes the formal means by which shots are built into the larger structures of scene, segment, and finished film: editing, sound, scenic and narrative structure (e.g., editing style - sequence shots, continuity editing, montage and editing techniques - on the types and uses of film: foley, dialogue, theme music, etc.).

ENG 197 Introduction to Film Studies........................................0-4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) are strongly recommended for success in this course. ENG 197 is the third course of a year-long sequence focusing on the history, art, and social contexts of film as an art form. A primary objective of the course is to enhance students’ enjoyment and appreciation of film by developing their cinematic literacy. Students are introduced to the basic elements of film language, including cinematography, mise en scène, editing, and sound. While American films are emphasized, the sequence also focuses at times on international cinema, looking at all films in the context of time, culture, and ideological effects. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements. A variety of assignments and activities develop and test students’ “ways of seeing.” ENG 197 also focuses at times on international cinema, looking at all films through encounters with the work of directors such as John Ford, Howard Hawks, and Martin Scorsese. May be offered as a telecourse.

ENG 198 Introduction to Film Studies ........................................0-4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121 or instructor permission) are strongly recommended for success in this course. ENG 198 is an intermediate study of web site design with an emphasis on informational architecture including strategy, planning, usability, and design of integrated web sites. This course covers business practices as they relate to web design and communication principles as they apply to web design. Students also investigate the unique challenges involved in web site design. This course may be offered through traditional classroom instruction, or as a hybrid or online course.

ENG 288 Introduction to Web Design ........................................4 credits
Prerequisite or Co-requisite: CS 195 or CIS 195. Introduction to design and communication principles as they apply to web design. Students also investigate the unique challenges involved in web site design. This course may be offered through traditional classroom instruction, or as a hybrid or online course.

ARD 221 Computer Animation .................................................3 credits
Prerequisite: FA 220. Students gain an understanding of image manipulation through demedia. Includes the use of microphones, mini disc recorders, mixing consoles, and digital audio workstations for a variety of sound collection and processing applications.

ARD 222 Computer Animation 2 .............................................3 credits
Prerequisite: FA 221. A comprehensive exploration of three-dimensional computer animation arts: Three-dimensional space and form, model creation, texturing, lighting, scene composition, animation and rendering strategies.

ARD 225 Concepts of Visual Literacy .........................................3 credits
Prerequisite: MUL 210. Authoring techniques as they pertain to multimedia production. Students develop authoring skills using Macromedia Director and the Lingo authoring language. Not about programming, this course is about applying multimedia design to an authoring language framework to solve implementation problems, and enhancing non-linear content presentation. Activities will focus on completed multimedia projects and their effects on users.

ARD 231 Multimedia Authoring ..............................................3 credits
Prerequisite: MUL 210. Authoring techniques as they pertain to multimedia production. Students develop authoring skills using Macromedia Director and the Lingo authoring language. Not about programming, this course is about applying multimedia design to an authoring language framework to solve implementation problems, and enhancing non-linear content presentation. Activities will focus on completed multimedia projects and their effects on users.

ARD 245 Fundamentals of Lighting .........................................3 credits
Prerequisite: WR 115, or WR 121, or WR 122, or WR 123. Introduction to elementary concepts of visual literacy, including theories of representation and design. Includes the role of composition, color, time, motion, lighting, and sound in the design of moving images for film, television, and computer imaging. Students learn to incorporate these design elements into visual projects and learn how to critically evaluate visually mediated messages.

ARD 246 Understanding Movies: American Cinema ..................3 credits
An introductory film studies course designed to bring Hollywood film making into clear focus as an art form, economic force, and a system of representation and communication. It explores how Hollywood films work technically, artistically, and culturally, and looks at the historical contexts and ideological effects relating to such contested areas of social experience as race, class, gender, sexuality, and nation.

ARD 250 Concepts of Visual Literacy .........................................3 credits
Prerequisite: WR 115, or WR 121, or WR 122, or WR 123. Introduction to elementary concepts of visual literacy, including theories of representation and design. Includes the role of composition, color, time, motion, lighting, and sound in the design of moving images for film, television, and computer imaging. Students learn to incorporate these design elements into visual projects and learn how to critically evaluate visually mediated messages.

ARD 251 Multimedia Authoring ..............................................3 credits
Prerequisite: MUL 210. Authoring techniques as they pertain to multimedia production. Students develop authoring skills using Macromedia Director and the Lingo authoring language. Not about programming, this course is about applying multimedia design to an authoring language framework to solve implementation problems, and enhancing non-linear content presentation. Activities will focus on completed multimedia projects and their effects on users.

ARD 255 Understanding Movies: American Cinema ..................3 credits
An introductory film studies course designed to bring Hollywood film making into clear focus as an art form, economic force, and a system of representation and communication. It explores how Hollywood films work technically, artistically, and culturally, and looks at the historical contexts and ideological effects relating to such contested areas of social experience as race, class, gender, sexuality, and nation.
FA 261 Writing and Interactive Design 3 credits
Prerequisite: WR 121. An introduction to basic principles in scripting for interactive media. Focuses on writing techniques which foster interaction and explores the role of authoring tools in the design of multimedia projects. Students will be introduced to the tools and software used in the design and production of multimedia projects and will be introduced to the methodologies of authoring and scripting for interactive media. This course is designed to help students develop the skills necessary to write for interactive media. 0-4 credits

FA 263 Film in the Fifties 0-4 credits
Prerequisite: A passing grade (C- or better) in WR 115 or placement into WR 121. This course introduces students to the 1950s as a complex decade in American history through films from and about the era that epitomize the cultural tensions and darker historical currents that define it, demythologizing the fifties as a golden age of innocence and simplicity. Historical and critical readings supplement the screening of classic films and provide direction for class discussion, exams, and critical essays that help students develop critical skills and cine-literacy. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements.

FA 264 Women Make Movies 0-4 credits
Prerequisite: A passing grade (C- or better) in WR 115 or placement into WR 121. This course focuses on women directors around the world and the contributions they have made to film (and video). Students will be introduced to the historical and economic context of film production as well as to a formalist film vocabulary. They will explore readings in feminist scholarship and analyze women-authored cinema—narrative, experimental, and documentary—in the context of race, ethnicity, gender, sexuality, class, and nationality. Films will span the silent period to the present. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements.

FA 265 African American Film Images 0-4 credits
Prerequisite: A passing grade (C- or better) in WR 115 or placement into WR 122. This course provides students with an introduction to African Americans’ role in the history of Hollywood filmmaking, and the social, educational, and political climates that follow this cultural phenomenon of moviemaking. Several critical texts will reveal the complex and difficult relationship between black Americans and their desire to become an active, integral part of all aspects of the American film industry. Screenings of important films, class discussions, inside and outside of class group work, exams, and other relevant critical readings are essential aspects in guiding students’ understanding of the peculiar problems offsetting African Americans’ full, rigorous admittance into the Hollywood system.

MDP 246 Multimedia Production 1 4 credits
Prerequisite: FA 250, FA 231, VP 151, AUD 120, ART 151A, MUL 210, and CIS 1408. A practicum course giving students the opportunity to apply technical knowledge and skills learned in the first year to actual basic production situations with an emphasis on multimedia productions. Students can volunteer for production positions based on their own career interests and experience.

MDP 247 Multimedia Production 2 4 credits
Prerequisite: MDP 246, FA 261, VP 152, MUL 212, and CG 203. A practicum course giving students the opportunity to apply technical knowledge and skills learned in the first year to actual intermediate production situations with an emphasis in multimedia productions. Class members can volunteer for production positions based on their own career interests and experience. Introduces current topics such as media issues, professional production techniques, changing media technology, and job market information.

MDP 248 Multimedia Production 3 4 credits
Prerequisite: MDP 247. A practicum course that gives students the opportunity to apply technical knowledge and skills learned in the first year to actual intermediate production situations with an emphasis in multimedia productions. Class members may be able to volunteer for production positions based on their own career interests and experience. A component of the course will permit the introduction of current topics such as media issues, professional production techniques, changing media technology, and job market information.

MDP 280 Co-op Ed: Multimedia 3-12 credits
Prerequisite: Instructor approval. Co-op offers work experience in a multimedia-related business. Students integrate theory and practice gained in the classroom with practical experience in the professional world. Students develop skills, explore career options and network with professionals and employers while earning credit toward a degree. Course may be repeated.

MUL 210 Multimedia Design 3 credits
Prerequisite: Art 261 and AUD 120 (pre- or co-requisite.) Students design and produce computer multimedia programs using digital processing techniques in an environment intended to serve as the norm of multimedia authoring work. Emphasis is on design implementation and human factors, user analysis, interface and interaction considerations, project management, and understanding client needs.

MUL 212 Digital Imaging 4 credits
Prerequisite: ART216. Instruction in various aspects of digital imaging, with an emphasis on bitmap (photographic) image design and processing using Adobe Photoshop.

MUL 216 Multimedia for the Web 3 credits
Prerequisites: CS 195 and ART 289. Explores the basics of working in the World-Wide Web environment with an emphasis on integrating video, web graphics, animation, and other types of dynamic multimedia into web site design. Students investigate various site design models used in personal and commercial web sites and design web pages and web sites utilizing a variety of multimedia techniques and tools. Students who complete the one-year certificate are prepared for entry-level positions in many areas of web-related businesses as page and site designers, multimedia and graphic designers, information designers, and web animators.

MUL 218 Business Practices for Media Arts 2 credits
An exploration of common business practices in the graphic, multimedia, and web design fields. Students are exposed to the skills necessary for them to successfully manage an art department or to run a freelance business. Provides students with a working knowledge of project management from initial client contact through completion, including an understanding of how to establish and maintain timelines, budgets, and workflow. Throughout the curriculum, students are exposed to the role of ethics in the design profession.

MUL 220 Intermediate Typography 3 credits
Prerequisite: ART 219. This course provides students with an in depth understanding of how typography is used to communicate content both visually as image as well through the invisibility of well chosen body type. Type hierarchy and grid systems will be explored in order to provide graphic design students with organizational layout skills commensurate with what is needed as a design professional. Communication of other information, i.e., data, graphs and tables will also be considered. The etiquette of whole page and multi-page document layout will also be taught. Students will perform a series of projects to demonstrate skill in these areas.

VP 151 Video Production 1: Camera 3 credits
Prerequisite: ART 261, AUD 120 and FA 250. Introduces elementary video production including digital video camera operation, digital non-linear editing, and pre-production planning. Students are taught basic camera techniques, pre-production, and production practices through hands-on learning to develop basic field video production skills. Focus is on individual creativity, as well as the importance of teamwork and deadlines. Projects are produced in the context of learning the theory and practice of pictorial continuity as it applies to multimedia productions.

VP 152 Video Production 2: Editing 3 credits
Prerequisite: VP 151. Advanced concepts and skills in digital video production and non-linear editing. The theory and practice of digital non-linear editing is emphasized. Students receive hands-on opportunities to learn advanced camera techniques, pre-production, and production practices, combined with individual creativity and the importance of teamwork and deadlines. Projects are produced in the context of the theory and practice of video production and computerized video editing combined with the application of multimedia programs.

Medical Office Assisting

For information, contact the Health Professions Division, Bldg. 4/Frm. 222, 541.466.6167. You must be accepted into the Medical Office Assisting program to take some of these classes.

MA 110 Clinical Assistant 1 3 credits
Prerequisite: Admission to the Medical Office Assistant program and Mth 052 with a grade of C or higher and previous completion of or concurrent enrollment in all fall term Medical Office Assistant courses. Introduction to clinical assisting in the ambulatory care...
Prerequisite: MA120, MA150, HO152, and HO220 with grade of C or above. Students will then create their own songs or develop more refined song analysis, techniques and concepts gleaned through this analysis. The course will focus on construction, phrasing, and settings of lyrics. Recordings and scores will be analyzed to gain a better understanding of different music styles.

MA 130 Clinical Assistant 2.................................................3 credits Prerequisites: Successful completion of MA 120, MA 150, HO 152, and HO 220. Continuation of Clinical Assistant 2 MA 120. This course includes ordering and scheduling diagnostic testing per doctor’s instructions, instructing patients with special needs, and dealing with office emergencies.

MA 150 Laboratory Orientation............................................3 credits Prerequisites: Admission to the Medical Office Assistant program, successful completion of MA 110 and HO 150 with a grade of C- or better plus consent of instructor. Study of various laboratory procedures and in most instances, how to do them; hematology, urinalysis, immunology and phlebotomy.

MA 206 Co-op Ed: Medical Office Assistant Seminar.............2 credits Students will increase their understanding and expectations of the medical profession, learn effective resume writing, interviewing techniques, medical terminology, and business search skills. Students will be presenting themselves to employers in a competent and professional manner in preparation for a cooperative education internship. Emphasis is to help graduates find employment upon earning their certificate.

MA 280 Co-op Ed: Medical Office Assistant.........................5-12 credits Prerequisite: MA120, MA150, HO152, and HO220 with grade of C or higher. This supervised internship course will provide students with work experience in local medical facilities in both clinical and administrative office settings. Students learn to identify and use additional medical equipment as well as have opportunities to integrate theoretical knowledge and practice introduced in the classroom with practical experiences in the professional field.

MUS 101 Music Fundamentals...........................................3 credits This course provides the student an opportunity to develop a working knowledge of the elements of music. Students learn the basic skills needed to read, write, analyze, and compose simple music. Students may find it helpful to take Group Piano MUS 131 at the same time. This course prepares one for Music Theory MUS 111.

MUS 102 Jazz Fundamentals...............................................3 credits Prerequisite: MUS 101 This class is an introduction to jazz studies for music students who want to continue on to Jazz Theory, Jazz History, and the Jazz Improvisation classes. This class is also open to all music students or any LCC student who wants an introduction to the world of jazz. Jazz theory, history, piano chord voicings, and major figured bass will be addressed. Prerequisite: MUS 101 Music Fundamentals, past or present placement in an LCC Music Theory class or instructor approval. Students must have basic music reading ability.

MUS 103 Songwriting Techniques and Analysis 1.................3 credits Prerequisite: MUS 101 or instructor consent. Songwriting Techniques and Analysis is a class for students to explore the art and craft of songwriting. Students will analyze popular songs from a variety of sources including British Invasion, Rock, Country, Reggae, Rap, and Blues. Analysis will include keys, harmonies, song forms, melodic construction, phrasing, settings of lyrics, Recordings and scores will be used as reference materials for all analysis projects. Using the techniques and concepts gleaned through this analysis, the students will then create their own songs or develop more refined song analysis techniques.

MUS 103 Audio Engineering 1..........................................3 credits Prerequisite: MUS 101 and MUS 119. Audio Engineering is available for students who are seeking the tools to work and function as recording engineers in a recording environment i.e., recording studio or live concert recording. Students will meet with the instructor in the recording studio where the following topics, among others, will be addressed and demonstrated: sound and hearing, studio acoustics, microphones choices and positioning, mixing board, recording technology, tracking, audio editing, signal processing, monitoring, recording, mastering, work flow, and professionalism.

MUS 108 Music in World Cultures.....................................4 credits This one-term basic survey explores selections of music of the major continental regions of the globe, including Native Americans, Africa, Eastern Europe, India, Asia, and Latin America. Focus is placed in both (1) the nature of the music for a given people on its own terms and (2) the ways in which this music is located within its own cultural context. Approaching this music is accomplished by recorded music listening and analysis. Venues include in-class and outside-classroom experiences of music and, to a limited degree, in-class music making. Previously numbered MUS 209 and cannot be repeated for Degree Requirements.

MUS 109 Audio Engineering 2.........................................4 credits Prerequisite: MUS 107. This course is available for students who are seeking the tools to work and function as recording engineers in a recording environment (recording studio or live concert recording). Students will meet with the instructor in the recording studio where the following topics, among others, will be addressed and demonstrated, and hands-on assignments, using the recording studio environment, will begin. Topics include: operation of outboard mixers, preamps and signal processors, signal flow and setting up various signal paths within the control room, microphone placement and basic multitrack recording of various instruments, using the mixing console, tracking to different mediums, etc.

MUS 110 Audio Engineering 3..........................................4 credits Prerequisite: MUS109. Audio Engineering 3 is the third course in the Audio Engineering sequence, which is designed to train students seeking the tools to work and function as recording engineers in a recording environment. Students will meet with the instructor in the Recording Studio. The following topics, among others, will be addressed and demonstrated as students work on a large-scale recording project: Studio Etiquette, Studio Preparation, Selecting a Recording Format, Rehearsal Sessions, Console Logistics, Initial Tracking, Overdubbing, Compression Techniques, EQ Techniques, Signal Processing, Console Automation, Mixing, and Mastering.

MUS 111 Music Theory 1 (First Term).................................4 credits Theory placement test required. Prerequisite/Corequisite: MUS114, MUS 127. MUS 111, 112, 113 must be taken in sequence. Thorough review of the fundamentals of music followed by their application to melody, harmony, and rhythm through the study of counterpoint. Emphasis of MUS 111 is on fluency of key signatures, scales, rhythm, intervals, triads and 7th chords, individually and in context, as well as 1st species modal and tonal counterpoint.

MUS 112 Music Theory 1 (Second Term).........................4 credits Prerequisite/Corequisite: MUS 111. Must be taken in sequence. Emphasis of MUS 112 is on tonal species counter point and tonal music in 4 part context. Includes tonal functional harmony involving tonic and dominant harmonies, non-harmonic tones, scoring, figured bass and introduction of cadences.

MUS 113 Music Theory 1 (Third Term).............................4 credits Prerequisites: MUS 112 and Prerequisite/Corequisite: MUS 116 and MUS 129. Must be taken in sequence. Emphasis of MUS113 is in concepts of prolongation and contextual analysis. Includes all diatonic chords, cadences, embellishing chords, melodic analysis, sequences, and secondary dominants.

MUS 114 Sight-reading and Ear Training (First Term)............2 credits Prerequisite/Corequisite: MUS 111. Theory placement test required. In this three term sequence of courses, one develops the skills necessary to read melodies at sight and to notate melodies one hears. It includes study of rhythm and meter, tonality and modality (solfeggio) scales, triads and seventh chords, cadences, and conducting techniques. May be taken with MUS111 and MUS127 concurrently.

MUS 115 Sight-reading and Ear Training (Second Term)........2 credits Prerequisites: MUS 114 and Prerequisite/Corequisite: MUS 112 and MUS 128. Second in three term sequence of courses developing the
skills necessary to read melodies at sight and to notate melodies one
hears. It includes study of rhythm and meter, tonality and modality
(solfeggio) scales, triads and seventh chords, cadences, and con-
ducting patterns. May be taken with MUS112 concurrently.

MUS 116 Sight-reading and Ear Training (Third Term) ........................................ 2 credits
Prerequisite/Corequisites: MUS 113, Group Voice 1, and MUS 129. Third in
three-term sequence of courses developing the skills necessary to
read melodies at sight and to notate melodies one hears. It includes
study of rhythm and meter, tonality and modality (solfeggio) scales.
May be taken with MUS113 and MUS129 concurrently.

MUS 118 Music Technology MIDI/Audio 1 .............................................................4 credits
This course provides the student with an opportunity, through group
instructor and hands-on experience, to study current applications
of music technology in a comprehensive MIDI/audio studio. Stu-
dents will learn to use various music production tools, using MIDI
sequencing, patch editing, digital audio recording, MIDI network-
ing, digital effects devices and plug-ins, and both digital and ana-
log mixing systems. Each student is assigned to one of the 20 MIDI/ audio studios, where they will complete creative lab assignments.
Students will work in the studios a minimum of 3 hours per week
outside of class.

MUS 119 Music Technology MIDI/Audio 2 .............................................................4 credits
Prerequisite: MUS 118. This course provides the student with an
opportunity, through group instruction and hands-on experience, to
study advanced techniques in the field of music technology in a com-
prehensive MIDI/audio studio. Students will learn additional applica-
tions of synthesizers, professional sound recording/editing software,
MIDI networking, MIDI sequencing, digital effects and both analog,
digital mixing, and mastering. In addition, students will gain expe-
rience in syncing sound and music to digital videos. Students will also
have the opportunity to work with many audio formats such as AIFF,
WAV, MP3, and surround sound as they work on their sound event
projects. Students will work in the studio a minimum of 3 hours per
week outside of class.

MUS 127 Keyboard Skills 1 (First Term) .................................................................2 credits
Prerequisites/Corequisites: MUS 111. Prerequisite/Corequisite: MUS
112. Theory placement test required. This course is part of a 6-term
sequence. It is designed to develop piano skills essential for all
music majors: performance of rhythmic patterns, scales & arpeg-
gios, intervals, chord progressions (including cadences) with correct
voice leading and resolution, harmonization, transposition, improvi-
sation, realization of figured bass, sight-reading of 2-part piano tex-
ture. May be taken with MUS111 and MUS114 concurrently.

MUS 128 Keyboard Skills 1 (Second Term) ..............................................................2 credits
Prerequisite: MUS 127. This course is part of a 6-term sequence. It is designed to develop piano
skills essential for all music majors: performance of rhythmic pat-
tterns, scales & arpeggios, intervals, chord progressions (including cadences) with correct
voice leading and resolution, harmonization, transposition, improvisation, realization of figured bass, sight-read-
ing of 2-part piano texture. May be repeated with MUS112 concurrently.

MUS 129 Keyboard Skills 1 (Third Term) ...............................................................2 credits
Prerequisites: MUS125. Prerequisite/Corequisite: MUS 113, MUS 116
This course is part of a 6-term sequence. It is designed to develop piano
skills essential for all music majors: performance of rhythmic pat-
tterns, scales & arpeggios, intervals, chord progressions (including cadences) with correct
voice leading and resolution, harmonization, transposition, improvisation, realization of figured bass, sight-reading of 2-part piano texture. May be taken with MUS113
and MUS116 concurrently.

MUS 131 Group Piano ..............................................................................................2 credits
This course is for students who are not music majors who are inter-
ested in learning to play piano or continuing their keyboard studies.
The course provides group instruction covering principles of piano
playing. Contents and expected learning proficiencies of this course
may vary from term to term. May be repeated up to 6 total credits. May be applied to transfer associate's degrees.

MUS 134 Group Voice ..............................................................................................2 credits
This class is designed to help students develop their voices for sing-
ing. They will be instructed individually and as a group in vocal tech-
niques that will improve the quality of their voices. They will learn
about breathing, dynamics, expression, posture, breath control,
and vocal resonance as well as the basic anatomy of singing. They
will also learn how to cope with the fear of singing in front of
others. No musical background is needed to take this class. Contents
and expected learning proficiencies of this course vary from term to
term. May be repeated up to 6 total credits. May be applied to trans-
fer associate's degrees.

MUS 135 Group Voice 2 ..........................................................................................2 credits
Prerequisite: MUS 113. Group Voice 2 is designed to help students
develop their voices further for singing. Students will be instructed
individually and as a group in vocal techniques that will improve the
quality of their voices. They will continue to refine basic techniques
of diction, phrasing, dynamics, expression, posture, breath control
during group and private sessions. Students will address issues related to performance
anxiety. Focus will be on solo singing and individual development
of technique. Contents and expected learning proficiencies of this
course vary from term to term. May be repeated up to 6 total credits

MUS 137 Group Guitar .............................................................................................2 credits
The student must have access to an acoustical guitar. Group Gui-
tar provides a basic orientation to guitar techniques that encompass
accompaniment and solo skills. Students will learn to read standard
musical notation. A variety of strumming and finger-picking are
taught to accompany singing.

MUS 138 Group Guitar 2 ..........................................................................................2 credits
Group Guitar will involve an intermediate level orientation to gui-
tar techniques, including reading the whole neck above the fourth
fret, that will encompass accompaniment and solo skills in a vari-
ety of styles. Intermediate level standard music reading will be cov-
ed. Minimally, students must have facilities and expected learning proficiencies of this course
vary from term to term. May be repeated up to 6 total credits.

MUS 161 Jazz Improvisation: Instrumental .........................................................2 credits
Students will study elements of jazz harmony, jazz standards and
classic recordings of jazz artists to build background and a platform
for development of skills in jazz improvisation. Students should have considerable skill on their instrument and knowledge of major key sig-
atures and major scales. MUS 101 - Music Fundamentals or instructor approval required. Contents and expected learning profi-
ciencies of this course may vary from term to term. May be repeated up to 6 credits.

MUS 185 Instrumental Performance ........................................................................1 credit
Instrumental performance is designed for instrumental students at MUP 100 or above who are taking individual lessons and are declared pre-music or music majors. This course focuses on the art of performance and how to deal with performance anxiety. Contents
and expected learning proficiencies of this course vary from term to
term. May be repeated up to 6 total credits. May be applied to trans-
fer associate's degrees.

MUS 186 Vocal Performance ..................................................................................1 credit
Vocal Performance is designed for vocal students at MUP100 or above who are taking individual lessons and are declared pre-music or music majors. This course focuses on performance of classical lit-
erature and how to deal with performance anxiety. Contents and expected learning proficiencies of this course vary from term to term.
May be repeated up to 6 total credits. May be applied to trans-
fer associate's degrees.

MUS 201 Introduction to Music and Its Literature ..................................................3 credits
This class covers the development of Western Music from its begin-
ings through modern times. It is an overview of styles and practices
with a focus on what to listen for in music. A brief opening section
on ethnomusicology helps define the thread that connects the music
of world cultures.

MUS 202 Introduction to Music and Its Literature ................................................3 credits
Second course in sequence. See sequence information under course
description for MUS 201.

MUS 203 Introduction to Music and Its Literature ................................................3 credits
Third course in sequence. See sequence information under course
description for MUS 201.

MUS 205 Introduction to Jazz History ....................................................................3 credits
This course provides the student with listening skills and a historical
overview of jazz from its origins to the present. Emphasis is on in-
class listening and discussion of the music. No musical background
is needed to take this class. Satisfies arts and letters and ethnic/gen-
ner/cultural diversity requirements.

MUS 211 Music Theory 2: (First Term) .................................................................3 credits
Prerequisite: MUS 113, MUS 116, and MUS 129. This 3-semester course is a continuation of Music Theory I (MUS111, 112, 113) with further
MUS 264 History of Rock Music 1 ......................... 4 credits
Prerequisites: MUS 212, MUS 215, MUS 225. Continuation of
MUS 211, with chromatic elaboration and enharmonic modulation
using fully diminished seventh chords, augmented 6ths and 7ths. Emphasis of MUS 212 is on form and analysis including binary,
ternary, rondo, variations, art song, and sonata form. May be taken
with MUS225 and MUS215 concurrently.

MUS 265 History of Rock Music 2 .......................... 4 credits
Prerequisite: MUS 212, MUS 215, MUS 225. This course is designed to provide the student with an opportunity to
explore the musical, social and cultural aspects of Rock music from
its pre-Rock influences and its development through 1964-1975,
while learning about important artists in this style.

MUS 266 History of Rock Music 3 ............................ 4 credits
This course is designed to provide the student with an opportunity to
explore the musical, social and cultural aspects of rock music from c.1975
through 1995, while learning about important artists in this style.

MUS 270 Jazz Theory ........................................... 3 credits
This one-term course in jazz theory will introduce the student to
concepts of jazz harmony, melody, rhythm, form, timbre and
instrumental performance practice. The focus will be on analyses of jazz
compositions and improvisation techniques, as well as traditional
corect concepts of music theory. Students must be able to read music.

MUS 280 Co-op Ed: Music .................................... 3-12 credits
Co-op offers students on-the-job work experience in a music-related
site. Students integrate theory and practice gained in the class-
room with practical experience in the professional world. Students develop
skills, explore career options and network with professionals and
employers while earning credit toward a degree. Contents and
expected learning proficiencies of this course vary from term to
term. May be repeated. Please contact music cooperative education
coordinator before attempting to register.

MUS 290 Gospel Choir ........................................... 2 credits
Gospel choir provides a performance opportunity for the student who does not read music. The ensemble will primarily explore tra-
ditional African-American sacred music from the early spirituals to
contemporary gospel sound. Emphasis will be placed on both group and personal expression which historically charac-
terized the wellsprings of this music, which is native to the United
States. No audition required; open to all Lane students. Contents and
expected learning proficiencies of this course vary from term to
term. May be repeated up to 12 total credits.

MUS 291 Chamber Choir ....................................... 2 credits
This is a select vocal ensemble that rehearses cho-
ral chamber music from the medieval period to the present. Audi-
tion during first week of class. Students need to be able to read
music. Contents and expected learning proficiencies of this course
vary from term to term. May be repeated up to 12 total credits. May
be transferred.

MUS 292 Vocal Jazz Ensemble ............................... 2 credits
Audition required during first week of class, fall term and as needed
thereafter. Read, rehearse, and perform music of the vocal jazz idiom
including swing, blues, Latin, and ballad styles. Student must have
the ability to learn music on his/her own, be at rehearsal prepared
and on time, and have an enthusiasm for the music. Vocal jazz also
requires a full-year commitment. Contents and expected learning proficiencies of this course vary from term to term. May be repeated
up to 12 total credits. May be transferred.

MUS 293 Jazz Combos ......................................... 2 credits
Music reading or concurrent enrollment in MUS 101 is recom-
mented. This course is for instrumentalists wishing to study jazz
styles in a small group (combo) setting. Students form several small
ensembles combos of up to seven players to study jazz standards
from the Real Book and other jazz “fake books”. Emphasis is placed on
performance style as well as fundamentals/elements of jazz the-
ory as they relate to harmonic form and improvisation and listening.
No audition required. Contents and expected learning proficiencies of this
course vary from term to term. May be repeated up to 12 total
credits. May be transferred.

MUS 294 Jazz Ensemble ....................................... 2 credits
Jazz Ensemble is a class for students who wish to study jazz music in
a performance environment. The class is limited to six saxophones,
five trumpets, five trombones, piano, bass, guitar, and trap set.
Audition required. The Lane Jazz Ensemble performs formal concerts on and off campus throughout the year (Fall, Winter, Spring). Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits. May be transferred.

**MUS 295 Symphonic Band** ................................. 2 credits
Symphonic Band provides an opportunity for woodwind, brass, and percussion students to study, rehearse, and perform all types of concert band literature. An audition is recommended for new members. Students develop the skills and learn music of various periods and styles in preparation for at least one public performance each year. Audition only. Rehearsals are Wednesday evenings, 7:950 p.m. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits. May be transferred.

**MUS 296 Chamber Orchestra** .................................. 2 credits
This course blends the talents of experienced community instrumentalists with student musicians creating an excellent orchestra experience for all. Chamber orchestra plays three programs each year. Audition only. Rehearsals are Wednesday evenings, 7:950 p.m. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits. May be transferred.

**MUS 297 Concert Choir** ........................................... 2 credits
This class is open to anyone interested in singing in a large ensemble. No prior experience is required. Students develop the skills and learn music of various periods and styles in preparation for at least one public performance each year. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits. May be transferred.

**Music Lessons**

For information, contact the Music, Dance and Theatre Arts Department, Bldg. 6/ Rm. 204, 541.463.3209.

**MUP 100 Individual Lessons** .................................. 1-2 credits
Individual instruction in technical and stylistic aspects of solo performance for pre- and non-majors. Students receive 10 45-min lessons each term in their major instrument. Instruction is offered in the following: voice, piano, flute, oboe, clarinet, saxophone, bassoon, violin, trumpet, French horn, trombone, baritone horn, tuba, string bass, cello, viola, electric bass guitar, jazz guitar, classical guitar, harp, and percussion. No more than six hours credit may be earned in MUP 100 singularly or combined. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 171 Individual Lessons: Piano (First-year level)** .......... 2 credits
Prerequisite: Jury required to enter this level. Individual instruction in technical and stylistic aspects of solo performance. Each term students enroll for one 45-minute lesson each week. Regular practice of the lesson is expected. Consult with instructor regarding expectations. A term jury is required. Individual instruction in technical and stylistic aspects of solo performance for pre- and non-majors. Students receive 10 45-min lessons each term in their major instrument. Instruction is offered in the following: voice, piano, flute, oboe, clarinet, saxophone, bassoon, violin, trumpet, French horn, trombone, baritone horn, tuba, string bass, cello, viola, electric bass guitar, jazz guitar, classical guitar, harp, and percussion. No more than six hours credit may be earned in MUP 100 singularly or combined. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 174 Individual Lessons: Voice (First-year level)** .......... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 175 Individual Lessons: Violin (First-year level)** .......... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 176 Individual Lessons: Viola (First-year level)** .......... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 177 Individual Lessons: Cello (First-year level)** .......... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 178 Individual Lessons: Bass (First-year level)** .......... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 181 Individual Lessons: Flute (First-year level)** .......... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 182 Individual Lessons: Oboe (First-year level)** .......... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 183 Individual Lessons: Clarinet (First-year level)** ...... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 184 Individual Lessons: Saxophone (First-year level)** .. 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 185 Individual Lessons: Trumpet (First-year level)** ..... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 186 Individual Lessons: Baritone Horn (First-year level)** 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 187 Individual Lessons: French Horn (First-year level)** 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 188 Individual Lessons: Trombone (First-year level)** .. 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 189 Individual Lessons: Baritone Horn (Second-year level)** 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 190 Individual Lessons: Tuba (First-year level)** ......... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 191 Individual Lessons: Percussion (First-year level)** .. 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 192 Individual Lessons: Electric Bass (First-year level)** 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 193 Individual Lessons: Guitar (First-year level)** ...... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 171. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 271 Individual Lessons: Piano (Second-year level)** ....... 2 credits
Prerequisite: Jury required to enter this level. Individual instruction in technical and stylistic aspects of solo performance. Each term students enroll for one 45-minute lesson each week. Regular practice outside of lessons is expected. Consult with instructor regarding expectations. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 274 Individual Lessons: Voice (Second-year level)** ...... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 275 Individual Lessons: Violin (Second-year level)** ....... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 281 Individual Lessons: Flute (Second-year level)** ...... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

**MUP 283 Individual Lessons: Clarinet (Second-year level)** ...... 2 credits
Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites and Corequisites</th>
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<tr>
<td>MUP 284</td>
<td>Individual Lessons: Saxophone</td>
<td>2 credits</td>
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<tr>
<td>MUP 286</td>
<td>Individual Lessons: Trumpet</td>
<td>2 credits</td>
<td>Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.</td>
</tr>
<tr>
<td>MUP 287</td>
<td>Individual Lessons: French Horn</td>
<td>2 credits</td>
<td>Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.</td>
</tr>
<tr>
<td>MUP 288</td>
<td>Individual Lessons: Trombone</td>
<td>2 credits</td>
<td>Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.</td>
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<tr>
<td>MUP 289</td>
<td>Individual Lessons: Baritone Horn</td>
<td>2 credits</td>
<td>Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.</td>
</tr>
<tr>
<td>MUP 290</td>
<td>Individual Lessons: Tuba</td>
<td>2 credits</td>
<td>Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.</td>
</tr>
<tr>
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<td>Individual Lessons: Percussion</td>
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</tr>
<tr>
<td>MUP 292</td>
<td>Individual Lessons: Electric Bass</td>
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<td>Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.</td>
</tr>
<tr>
<td>MUP 294</td>
<td>Individual Lessons: Guitar</td>
<td>2 credits</td>
<td>Prerequisite: Jury required to enter this level. See course description for MUP 271. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.</td>
</tr>
</tbody>
</table>

### Nursing

**Course Descriptions**

For information, contact the Health Professions Division, Bldg. 4/Rm. 222, 541.463.3617. You must be accepted into the Nursing program to take these classes.

**EL 115H Effective Learning: Health Science Majors** | 3 credits | This course is designed for health occupation majors who wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, and make visual study tools. Course work requires college-level reading skills. |

**HO 090 Nursing Assistant** | 6 credits | This course is designed to prepare the student in a course of study of basic level nursing care and skills. The course curriculum is established by the Oregon State Board of Nursing. Individuals satisfactorily completing all requirements of this course are eligible to sit for the Oregon State Board of Nursing competency examinations. A criminal background check is required for each student and fingerprinting may be required. Enrollment restricted to pre-nursing and pre-respiratory care students. |

**NRS 110A Foundations of Nursing-Health Promotion** | 4 credits | Prerequisite: Admission in Nursing Program. Corequisite: NRS 110B. This course introduces the learner to framework of the OCNE curriculum including the OCNE competencies and benchmarks and the clinical judgment model. The student is introduced to the role and practice of the registered nurse. Concepts and applicability of the ANA Code of Ethics will be emphasized. Students will be introduced to evidence-based practice including levels of evidence. Concepts of health promotion, chronicity and acuity as applied to nursing practice will be explored. Case studies will be used to provide students opportunities to demonstrate critical thinking in the provision of patient care. The student is introduced to and will practice intentional learning and reflection related to the role and practice of the person preparing to be a registered nurse. The course includes classroom, simulation and lab learning experiences including evaluation of certain clinical skills. |

**NRS 221A Foundations of Nursing in Chronic Illness 2 and End of Life** | 4 credits | Prerequisite: NRS 112A and NRS 112B and admission in the Nursing Program. Corequisite: NRS 221B. This course builds on Foundations of Nursing in Chronic Illness 1. The evidence base related to family care giving and symptom management is a major focus and basis for nursing interventions with patients and families. Ethical issues related to advocacy, self determination, and autonomy are explored. Complex skills associated with symptom management, negotiating in interdisciplinary teams, and the impact of individual and family development cultural beliefs are included in the context of client and family centered care. Exemplars include patients with chronic mental illness and well as other chronic conditions and disabilities affecting functional status and family relationships. |
NRS 222A Foundations of Nursing in Acute Care 2 & End-of-Life

Prerequisite: Admission in Nursing Program. This course builds on Nursing in Acute Care I, focusing on more complex and unstable patient care situations, some of which require strong recognition of critical illness, rapid decision making, and some of which may result in death. The evidence base supporting appropriate focused assessments, and effective efficient nursing interventions is explored. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care within the acute care setting. Case scenarios incorporate prioritizing care needs, delegation and supervision, family and patient teaching for discharge planning or end-of-life care. Exemplars include acute psychiatric disorders, pregnancy-related complications, as well as acute conditions affecting multiple body systems.

Corequisite: NRS 222A. Clinical Lab required for NRS222A.

5 credits

NRS 224A Integrative Practicum 1

Prerequisite: NRS 222A and NRS 222B and admission in the Nursing Program. Corequisite: NRS 224B. This course is designed to formalize the clinical judgments, knowledge and skills necessary in safe and competent nurse practice. The preceptor model provides a context that allows the student to experience the nursing work world in a selected setting, balancing the demands of job and life long learner. Faculty/preceptor/student analysis and reflection throughout the experience provide the student with evaluative criteria against which they can judge their own performance and develop a practice framework. Required for AAS and eligibility for RN licensure. May be offered online.

NRS 224B Integrative Practicum 1 Lab

Corequisite: NRS 224A. Clinical Lab required for NRS224A.

7 credits

NRS 230 Clinical Pharmacology 1

Prerequisite: Admission in the Nursing Program. This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. Students will learn to make selected clinical decisions regarding using current, reliable sources of information, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework. May be offered online.

3 credits

NRS 231 Clinical Pharmacology 2

Prerequisite: NRS 230 and admission in the Nursing Program. This sequel to Clinical Pharmacology I continues to provide the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. Students will learn to make selected clinical decisions regarding using current, reliable sources of information, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. The course addresses additional classes of drugs and related natural products not contained in Clinical Pharmacology 1. May be offered online.

3 credits

NRS 232 Pathophysiological Processes 1

Prerequisite: BI 112 and BI 233 or BI 112 and BI 102G or BI 101F and BI 233 or BI 211 and BI 233 or BI 101K and BI 233 or BI 101K and BI 202G; and BI 234. Admission in Nursing Program. This course introduces pathophysiological processes that contribute to many different disease states across the lifespan and human responses to those processes. Students will learn to make selective clinical decisions regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. Prerequisites: Anatomy and Physiology sequence; Microbiology. May be offered online.

3 credits

NRS 233 Pathophysiological Process 2

Prerequisite: NRS 232 and admission in the Nursing Program. This sequel to Pathophysiological Processes I continues to explore pathophysiological processes that contribute to disease states across the lifespan and human responses to those processes. Students will learn to make selective clinical decisions regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. The course addresses additional pathophysiological processes not contained in Pathophysiological Processes I. May be offered online.

3 credits

NRS 280 Co-op Ed: Nursing

Prerequisite: Admission in Nursing Program. This is a voluntary learning experience in a professional medical setting where students gain additional nursing skills under the guidance of working nursing professionals, explore career options, and integrate theory and practice. This course is not required for the Nursing Program AAS degree.

2-12 credits

PN 101A Practical Nursing 1

Prerequisite: MTH 065; WR 121; HO 100; BI 233; PSY 201 Admission in the Practical Nursing program. Corequisite PN 101B. This course is the first of three terms in the Practical Nursing Program. Content in this course will include nursing and the health care delivery system, complementary and alternative care; legal and ethical issues, including scope of practice; communication; nursing process, critical thinking, physical assessment; documentation, abbreviations, HIPAA; development across the life span; nutrition and diet diversity; nutrition and therapeutic diets; medical asepsis and infection control; pharmacology and medication administration; and pain assessment. Skills taught during this course will include communication techniques, physical assessment, ambulatory care skills; focused assessments (Braden, falls risk, mni cognition and pain), nursing process, documentation, and oral, topical, dermal, and enteral medications, sublingual medication administration, dosage calculation. Clinical application of content and skills will take place in the nursing lab and in outpatient and ambulatory care settings. May be offered in a format with some online instruction.

4 credits

Corequisite: PN 101A. Clinical Lab required for PN 101A.

PN 102A Practical Nursing 2

Prerequisite: PN 101A and PN 101B. Corequisite: PN 102B. Classroom content continues the application of the nursing process and the practical nursing scope of practice in selected medical-surgical areas including care of patients with integumentary, neurological, cardiovascular, endocrine, respiratory, musculoskeletal, gastrointestinal, and renal disorders, and care of the patient having surgery. Fluid and electrolyte balance, pain management, and chronic illness care are also included in this course. Skills taught during this term include care of ostomies and nasogastric and small–bore feeding tubes, urinary catheter insertion, capillary blood sugar measurement, injectable and enteral medication administration, oxygen administration, surgical asepsis, care of wounds, sutures, drains and tubes. Clinical application of the theory content will take place in the simulation lab and in the long-term care setting. May be offered in a format with some online instruction.

4 credits

Corequisite: PN 102A.

PN 102B Practical Nursing 2 Lab

4 credits

Corequisite: PN 102A. Clinical Lab required for PN 102A.

PN 103A Practical Nursing 3

Prerequisites: PN 102A and PN 102B. Corequisites: PN 103A and B are corequisites. Care of persons with cancer, other hematological, immune, mental health, and reproductive disorders; pediatric and obstetrical patients; end-of-life care. Trends in practical nursing; intravenous medications. Clinical applications in the simulation lab and in the acute-care and clinic settings. May be offered in a format that includes some online instruction.

7 credits

Corequisite: PN 103A.

PN 103B Practical Nursing 3 Lab

6 credits

Corequisite: PN 103A. Clinical Lab required for PN 103A.

PTA 280A Co-op Ed: First Clinical Affiliation

Prerequisite: PTA 104, PTA 104L, PTA 133 and PTA 133L Second year PTA students apply PT interventions under PT/PTA supervision at a contracted clinical site. Students progress toward advanced beginning through intermediate PTA practice by demonstrating communication and critical thinking for the workplace. This is the first of three off-campus clinical learning experiences.

6 credits

Prerequisite: PTA 104, PTA 104L, PTA 133 and PTA 133L Second year
PTA 2808 Co-op Ed: Second Clinical Affiliation .................. 6 credits
Prerequisite: PTA 280A Second year PTA students apply PT interventions under PT/PTA supervision at a contracted clinical site. Students progress to advanced intermediate and entry-level practice by demonstrating communication and critical thinking for the workplace. This is the second of three clinical learning experiences.

PTA 280C Co-op Ed: Third Clinical Affiliation .................. 6 credits
Prerequisite: PTA 2808 Second year PTA students apply PT interventions under PT/PTA supervision at a contracted clinical site. Students progress to advanced intermediate and entry-level PTA practice by demonstrating communication and critical thinking for the workplace. This is the third and final of three off-campus clinical learning experiences.

Nutrition
For information, contact the Health Professions Division, Bldg. 19/Rm. 222, 541.463.5617.

FN 105 Nutrition for Foodservice Professionals ................. 3 credits
Nutrient functions, food sources and guidelines are discussed as well as issues concerning those nutrients and the sustainability of our food system will also be explored. Some of the other topics include digestion, food allergies, vegetarianism, eating disorders, and religious eating traditions. May be offered online.

FN 110 Personal Nutrition ................................................. 3 credits
Introductory class to develop skills for improving healthy eating choices. Students will evaluate media messages, food products and their own diet. They will learn healthy cooking techniques & share budget friendly recipes. Does NOT satisfy the nutrition requirement for health profession programs.

FN 190 Sports Nutrition ............................................... 2 credits
This course presents the role of a variety of nutrients in maintaining a body that is healthy and that supports athletic performance. Skills are developed to create an eating and hydration plan to support athletic performance and to stay well-nourished. May be offered online.

FN 225 Nutrition ............................................................... 4 credits
Food sources, functions, and requirements of the major nutrients are discussed. Nutrient utilization, deficiencies, toxicities and their relationship to disease prevention will be covered. This course is designed for health profession majors. No chemistry prerequisite is required. May be offered online.

FN 230 Family Food and Nutrition ................................ 3 credits
This course focuses on how to prepare and offer a variety of nutrient dense foods to families in an environment that helps family members develop a positive approach to eating. Nutritional guidelines are discussed for infants and the younger and older child. Ideas for menu planning and recipes are given. May be offered online.

FN 225 Managing Food and Nutrition Services .................. 3 credits
Prerequisite: CA 160, CA 175, CG 203, HRTM 265, and HRTM 275. This course focuses on developing food service management skills within an institution. The content is designed to prepare students for their cooperative education experience, the delivery of food and nutrition services, and their professional careers.

FN 240 Introduction to Nutrition and Metabolism ............. 4 credits
Prerequisites: CH 112 or CH 221 This course will cover similar topics to FN225, but will go into more depth and for each of the processes of digestion, absorption, and metabolism of the major nutrients. This course is designed for health profession and dietetic majors who have a strong science background. General chemistry is a prerequisite.

FN 255 Medical Nutrition Therapy ................................. 3 credits
Prerequisite: FN 225 or FN 105. This course covers the fundamental principles of medical nutrition therapy for diseases including heart disease, diabetes, cancer, renal disease, and more. Class activities will discuss the purposes and procedures for culturally competent nutrition screening, documentation, education, and verbal communication. May be offered online.

FN 280 Co-op Ed: Dietary Manager .................................. 4 credits
Prerequisite: FN 235 and FN 255. This is a supervised internship to gain experience in food production, food service management, human resource management and food safety and nutrition care principles within clinical and community environments.

FN 298 Independent Study ............................................. 1-3 credits
A variable credit course based on independent study contracted between an instructor and a student.

Occupational Skills
For information, contact the Cooperative Education Division, Bldg. 19/Rm. 231, 541.463.5203.

CSK 101 Career Skills Training ......................................... 1-6 credits
Prerequisite: Instructor approval. Required. This course is designed to provide on-the-job learning experiences in community businesses and organizations. Students develop employability skills, explore career options and network with professionals and employers while earning college credit that may be applied toward a certificate or degree.

GWE 180 Co-op Ed: General Work Experience ............... 1-12 credits
Prerequisite: Instructor approval. Offered at the off-campus site. This course is designed for health profession and dietetic majors. No chemistry prerequisite is required. Twenty to 26 credits of co-op are required for the Cooperative Education certificate.

This course focuses on ethical issues, which affect our daily lives and most important decisions. These topics may be approached from the perspective of logic, religion, science, or revelation. Additional topics may include: modern theories about truth and knowledge, subjectivity, character, and successful living. Possible topics include whether morality is relative to culture or to the individual, the relationship between morality and religion, theories about what make particular actions right or wrong, moral skepticism, and eastern perspectives on right action. May be offered as a live interactive course.

Office Assistant - See Administrative Support

Paramedicine - See Emergency Medical/Paramedic

Parent Education - See Early Childhood Education

Philosophy and Religion
For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

PHL 201 Ethics ................................................................. 4 credits
Ethics is the study of morality, including an analysis of the concepts of good and evil, right and wrong, justice and injustice, duty, responsibility, character, and successful living. Possible topics include whether morality is relative to culture or to the individual, the relationship between morality and religion, theories about what make particular actions right or wrong, moral skepticism, and eastern perspectives on right action. May be offered as a live interactive course.

PHL 202 Theories of Knowledge ................................. 4 credits
Theories of knowledge (epistemology) address such questions as the nature of knowledge, how it differs from mere opinion, and whether knowledge comes primarily through the senses, reason, intuition or revelation. Additional topics may include: modern theories about what justifies belief, the role of subjectivity in knowing, and whether there may be different kinds of knowledge or limits to what we can know. May be offered as a live interactive course.

PHL 203 Theories of Reality ......................................... 4 credits
Theories of reality (metaphysics) is an attempt to discover and describe the underlying nature of existence. Possible topics include the nature of the self, the relationship between matter and consciousness, free will, the existence of God, death, and the meaning of life. These topics may be approached from the perspective of both Eastern and Western philosophy. May be offered as a live interactive course.

PHL 205 Contemporary Moral Issues ......................... 4 credits
This course focuses on ethical issues, which affect our daily lives in personal, social, and political spheres. Issues covered will vary...
This course introduces students to some of the major religious traditions of India, such as Hinduism, Buddhism, Sikhism and Jainism. The central beliefs and practices of these traditions may be approached historically, culturally, and/or through their essential wisdom teachings and how these apply to daily life. Emphasis will vary by instructor.

REL 202 Religions of China and Japan
(Taoism, Confucianism, Buddhism, and Shinto) ............... 4 credits
This course introduces students to some of the major religious traditions of China, Japan and other East Asian cultures, such as Buddhism, Confucianism, Taoism and Shinto. The central beliefs and practices of these traditions may be approached historically, culturally and/or through their essential wisdom teachings and how these apply to daily life. Emphasis will vary by instructor.

REL 203 Religions of the Middle East
(Judaism, Christianity, and Islam) ......................... 4 credits
This course introduces students to three major religious traditions which emerged from and developed in the Middle East: Judaism, Christianity, and Islam. The central beliefs and practices of these traditions may be approached historically, culturally, and/or through their essential wisdom teachings and how these apply to daily life. Emphasis will vary by instructor. May be offered online.

REL 211 Introduction to the Bible ........................................ 4 credits
This course reviews the history, content and organization of the Jewish and Christian scriptures that make up the cannon of the Bible. Historical and critical analysis will be used to explore the authorship, worldview, and values found in key texts of the Bible.

REL 230 Christian Beginnings ........................................ 4 credits
This course traces Christianity from its days as a persecuted Jewish sect. Its establishment as the official religion of the Roman Empire. Topics will include the quest for the historical Jesus, Christianity’s Jewish roots, influences from Greco-Roman religion and philosophy, how the New Testament was compiled, and how official Christian doctrine was decided. A central focus of this course will be to determine to what extent the historical Jesus and the early Christians may differ from later institutional and modern expressions of Christian faith.

REL 231 Buddhist Meditation Traditions: Principles and Practices ........................................ 4 credits
This course examines a number of Buddhist meditation principles and practices, drawing on the historical Buddha, and content from the Zen, vipassana, metta, and vajrayana (Tibetan) Buddhist traditions. The course will stress conceptual understanding, and making use of meditation as a cognitive tool for improving mental and emotional intelligence.

REL 232 Nature, Religion and Ecology ........................................ 4 credits
This course explores how different religious traditions and the cultures influenced by them view nature and the place of humankind within it. Native, Asian, and Western traditions are examined, as are contemporary eco-spiritual thinkers and movements. Class discussion for the students to apply the material in current social and personal contexts will be an integral part of the course.

Photography

For information, contact the Art and Applied Design Department, Bldg. 11/Rm. 101, 541.463.5409.

ART 113 History of Photography 1: 1700-1910 ...................... 3 credits
An exploration of the origins of photography from 1700 to 1910. Course modules examine the development of specific types of photography and how each type influenced worldviews. Photographs are examined in both cultural and historical contexts, allowing students to think critically about photographs and their place in our society. The course may be taught online. It requires the student to develop information literacy skills, as well as to improve basic research and writing skills.

ART 213 History of Photography 2: 1910-1950 ...................... 3 credits
An exploration of the origins of photography from 1910 to 1950. Course modules examine the development of specific types of photography and how they influenced the worldviews. Photographs are examined in both cultural and critical terms, allowing students to think critically about photographs as well as their place in a society. The course may be taught online, and requires the student to develop information literacy skills, as well as to improve basic research and writing skills.

ART 220 Documentary Photography ................................. 3 credits
Explore the creation and historical impact of documentary photography. Lecture and discussion is based on the impact of images through history and how images of historical, cultural, and social significance are helping to shape our contemporary history and viewpoints. Students will create a still-photo documentary story during the term. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 261 Photography 1 ..................................................... 3 credits
An introduction to the history and fundamentals of photography. Emphasis is on camera handling, manual exposure control, composition, and basic color theory. Includes a demonstration on the theory of black-and-white film processing and printing.

ART 262 Photography 2 ..................................................... 3 credits
Prerequisite: ART 261. Hands-on experience in black-and-white film processing, printing, and image control in the darkroom. Medium format cameras and advanced shooting, composition, and camera handling techniques are introduced through a variety of shooting assignments.

ART 264 Photography as Method: Mixed Media Approaches with Photography ................................. 4 credits
Prerequisite: ART 131, or ART 261, or ART 115, or ART 115SG, or ART 288. Introduces students to analogue mixed media methods of working with photographic imagery. The course focuses on the introduction, discussion of, and experimentation with new analogue mixed-media based methods. Students will develop and create a focused body of work on a particular theme, topic, or media exploration. The first section of the course will focus on an introduction of and experimentation with new analogue mixed-media based methods. Methods introduced will include, but are not limited to: Photo transfer, photo collage and montage, over drawing, masking, hand coloring, and three-dimensional assemblage.

ART 265 Studies in Contemporary Photography .................. 3 credits
Study of the major commercial and artistic trends in photography
from 1960 to the present. Entails critical reviews of the relationship of
graphy to significant cultural, political, and artistic trends of
the recent past. May be offered online.

ART 282 Landscape and Architectural Photography ........ 4 credits
Combines the formal issues of photography with the specific sub-
jects of photographing landscape and architecture. Through weekly
assignments photographing in the field, students apply fundament-
al concepts and gain a critical understanding of the role of photog-
raphy in architecture and landscape architecture. All camera types
and skill levels appropriate for this course.

ART 283 Fine Art Black/White Photography and
Printing .............................................................................. 3 credits
Prerequisite: ART 282. A course in advanced darkroom and photog-
graphic printing techniques for aspiring professionals and artists.
Focus is on black-and-white photography featuring medium
and large format cameras. Content includes an introduction to platinum
printing and assignments promoting development of skill necessary
for artists and photographers. Contents and expected learning pro-
ficiencies of this course vary from term to term. May be repeated up
to 9 total credits.

FA 256 Lighting for Photography ........................................ 3 credits
An introduction to the basics in lighting for photography. Students
learn how to work within a studio environment and on location.
All students work with professional lighting equipment and learn
the basics in setting up, metering, and shooting portraits and basic
commercial lighting techniques. Students also learn the basics in camera
lens variations, film stock, digital output, and editing. Contents and
expected learning proficiencies of this course vary from term to term.
May be repeated up to 12 total credits.

J 134 Photojournalism ......................................................... 3 credits
This course is designed to work within the field of content. Content is
not only the first step in good photojournalism, but also the first step in
good art-making. The course will explore how you see an image,
choose to share that image, and the message your images carry.
Other topics include the history of photojournalism and the cross-
over from documentary photography to the world of art.

J 234 Photojournalism 2 ..................................................... 4 credits
Prerequisite: J 134. A continuation of Photojournalism with the con-
tinued discussion of content and ethics of the field. Students learn
how to create editorials, identify the differences between news and
human interest, develop funding for non-mainstream stories, and
self-promote in the competitive field of photojournalism. Students
prepare their work through editorial processing and presentation.

MUL 214 Digital Photography .................................................. 3 credits
Prerequisite: ART 261. Overview of digital camera types, technolo-
gies, camera controls, managing file resolutions, formats, and back-
up strategies. Also covers migration of traditional photographic skills
to a digital workflow, using photo editing software, practical shar-
ing technologies (email, web and print), and anticipated trends in
the industry. Software emphasis will be on iPhoto, Photoshop, and
Aperture.

Physical Education

Also see Dance and Fitness Training
For information, contact the Health and PE Division, Bldg. S/Rm. 205, 541.463.5545.

PE 181C Combination Aerobics ........................................ 1 credit
This rhythmic aerobics class is designed to increase cardiovascu-
lar fitness and muscular endurance through a variety of exercise
formats. Students participate in a variety of formats such as step
aerobics, dance aerobics, circuit training, interval training and kick-
boxing aerobics.

PE 181K Kickboxing Aerobics ............................................ 1 credit
Martial arts-inspired movements are combined with classic sports
drills to create a challenging and fun rhythmic workout. This course
will allow students the opportunity to progressively enhance their fit-
ness levels by offering various impact and intensity options.

PE 181SB Body Sculpt ...................................................... 1 credit
Body Sculpt is a group fitness class designed to increase muscular
endurance by incorporating resistance exercises for all the major
muscle groups. Participants utilize hand weights and body bands as well as their own body weight to develop muscle firm-
ness and definition. Fitness gains may include improved muscular
endurance, increased muscular strength and altered body composi-
tion. Individuals of all fitness levels can experience the benefits of
this class by employing suitable resistance and intensity options.

PE 181SS Step and Sculpt .................................................. 1 credit
Step & Sculpt is designed to increase muscular endurance and
strength as well as enhance cardiovascular endurance. Participants
learn and execute both step aerobics combinations and resistance
exercises to experience the benefits of both approaches.

PE 181Y Yogilates ............................................................. 1 credit
Yogilates incorporates the principles and methods of Pilates and
Yoga to promote flexibility, balance, and core strength. Partic-
ipants progress individually as exercises are taught at various lev-
els that focus on core coordination, confidence, body awareness and body
appreciation.

PE 182A Scuba Diving ......................................................... 1 credit
Initial course covering necessary skills and knowledge for students
not yet certified in scuba diving. Diving skills like buoyancy control,
equipment usage and diver safety will be covered, resulting in a
PADI Open Water certification. Students are required to supply per-
sonal SCUBA mask and snorkel.

PE 182B Scuba Diving Advanced ...................................... 1 credit
Students must already be SCUBA certified. Further develops scuba
diving skills including night diving, navigation, and deep diving,
resulting in a PADI Advanced certification. Students may opt for
a single specialty training instead. Students are required to supply personal SCUBA mask and snorkel.

PE 182C Rescue Diver ....................................................... 1 credit
Students must already be Advanced SCUBA certified. The course
covers self-rescue, diver stress, first aid equipment, and diver tows
among other subjects. Students must be CPR certified. This course
results in a PADI Rescue Diver. Students are required to supply per-
sonal SCUBA mask and snorkel.

PE 182D Divemaster ......................................................... 1 credit
Students must already be Rescue SCUBA certified. The Divemaster
1 course covers diving management and control, supervising stu-
dents, physics, physiology, and equipment. Upon completion of the
Divemaster 1 curriculum, the candidate is eligible to participate in
the Divemaster 2 program.

PE 182E Divemaster 2 ....................................................... 1 credit
Prerequisite: PE 182D Students will provide assistance to new students
enrolled in lower level scuba classes. The course is an internship for
students. Upon completion the candidate will have attained a PADI Dive-
master rating and be eligible for instructor level training.

PE 183A Conditioning ....................................................... 1 credit
Various instructor-led activities utilize fitness equipment to enhance
strength and endurance. This progressive, cross-training approach is designed
to improve strength, endurance, flexibility, and core stability. Nutri-
tion and stress management concepts will be introduced.

PE 183B Exercise and Weight Control ................................ 1 credit
Designed for individuals who would like to alter their body compo-
sition and control their weight. Class offers instructor-led activities
to gain benefits related to regular exercise, including enhanced fit-
ness and improved confidence. Nutrition and stress management
concepts will be introduced.

PE 183C Exercise Walking .................................................. 1 credit
Emphasis is on a progressive walking program to develop, maintain
and assess cardiovascular fitness, and muscle endurance. Instruc-
tion will include: joint flexibility, proper technique, training princi-
pies, workout attire, injury prevention and nutrition. A variety of
routes will be used.

PE 183CG Group Cycling ................................................ 1 credit
Cycling skills and mechanics. Instructor-led workouts are performed
on stationary cycles using a variety of cycling specific body positions
and drills. Options for intensity are provided. Suplemental muscu-
lar training methods are presented to enhance overall conditioning.

PE 183E Fitness Circuits .................................................... 1 credit
This is an advanced fitness class that utilizes fitness circuits to
improve cardiovascular endurance, while enhancing
strength as well as utilizing hand weights and hand bands as well as their own body weight to develop muscle firm-
ness and definition. Fitness gains may include improved muscular
endurance, increased muscular strength and altered body composi-
tion. Individuals of all fitness levels can experience the benefits of
this class by employing suitable resistance and intensity options.
PE 183F Fitness Education: Introduction ............................................1 credit
Students are guided in creating a balanced, personal fitness pro-
gram in a supportive and noncompetitive environment. After com-
pleting a mandatory orientation (see PE 183FO), students attend
exercise sessions to fulfill course requirements and meet personal
fitness goals. All fitness levels welcome.

PE 183FO Fitness Education: Orientation ..........................................0 credits
Students registered for Fitness Education: Introduction must regis-
ter for this one time, mandatory orientation. This orientation covers
course policies, grading, and general fitness information. Assistance
is provided in developing a personalized exercise program for the
student.

PE 183G Fitness Education: Returning ............................................1 credit
For students who have completed PE 183F and wish to continue
their fitness program. Course opportunities include: personal train-
ing, fitness and health seminars, and fitness assessments. Students
attend exercise sessions to fulfill course requirements and meet per-
sonal fitness goals.

PE 183J Jogging ...............................................................................1 credit
Emphasis is on a progressive jogging program to develop, maintain
and support cardiovascular fitness, and muscle endurance. Instruc-
tion will include: joint flexibility, proper technique, training princi-
ples, workout attire, injury prevention and nutrition. A variety of
routes will be used.

PE 183R Stability Ball Fitness ..........................................................1 credit
Students perform exercises with a stability ball focusing on increas-
ing core stability, muscular strength, endurance, flexibility, balance,
and coordination. Light weights, resistance bands and weighted
balls will be used during workouts. Nutrition and stress manage-
ment concepts will be introduced.

PE 183S Strength Training ...............................................................1 credit
Emphasis on progressive resistance training using a variety of exer-
cise modalities including barbells, dumbbells, resistance bands,
body weight, and machines. Develop and assess strength, muscular
size, muscle definition, toning, and improve general physical condi-
tion. Safe and proper technique, routines, programs, and nutrition
will be discussed.

PE 183T Power Conditioning ...........................................................1 credit
Prerequisites: Any of the sports classes ([PE191, PE192, PE193,
PE195, PE196 or PE197) This progressive, cross-training approach is
designed to improve strength, flexibility and core stability. Resis-
tance training using dumbbells, bands, body weight and machines
will be introduced. Develop and assess strength, muscle and
improved mental wellbeing. Safe techniques, routines, nutrition and
stress management concepts will be discussed.

PE 183U Strength Training for Women .............................................1 credit
Learn safe and correct techniques with free weights, machines,
bands, stability balls and more, to tone and strengthen major mus-
cles. Instruction in basic anatomy, terminology, nutrition, and exer-
cise principles will be associated with resistance training. Open to women
of all ages and experience levels.

PE 183W Progressive Integrative Exercise ........................................1 credit
Students perform individualized or small groups programs to improve
fitness in both the injured and individuals with controlled diseases.
Exercise programs may include: flexibility, strength, and cardiovas-
cular endurance. Must be able to exercise independently with mini-
mal supervision or assistance.

PE 184A Archery .............................................................................1 credit
Beginning and experienced students will learn safety, use of equip-
ment, basic rules, etiquette, terminology and skill techniques to
shoot at different size targets at various distances. All equipment
provided. If you have your own equipment, ask instructor if it is suit-
able for our range.

PE 184AI Archery Intermediate .......................................................1 credit
Designed for experienced archers to improve basic skills and develop
more consistency in form, aiming, techniques and scoring at a vari-
ety of distances and targets. All equipment provided. If you have
your own equipment, ask instructor if it is suitable for our range.

PE 184B Badminton .........................................................................1 credit
Learn badminton and improve fitness through skill drills and game play.
Footwork, grip, serve and backhand shots, scoring, termi-
ology, etiquette, singles and double play, game strategy and rules
will be covered. Designed for all skill levels. Equipment provided, but
may bring own racquet.

PE 184C Badminton Intermediate ...................................................1 credit
Designed for experienced players to refine basic skills and develop
advanced shots and strategies in singles and doubles play. Equip-
ment provided, but may bring own racquet.

PE 184D Bowling .............................................................................1 credit
Development and improvement of skills for a social and popular
recreational lifetime activity. Fundamentals of spot bowling and
line bowling techniques used for both straight and hook deliveries.
Rules, scoring and etiquette will be covered. Designed for begin-
ing bowlers.

PE 184F Fencing ...............................................................................1 credit
Instruction in basic foil fencing skills, including offensive and defen-
sive skills, rules, etiquette, judging, and bout experience. Class
includes warm-up and stretching skills.

PE 184I Ice Skating Beginning .........................................................1 credit
An intermediate level ice skating class that builds on the beginning
skills of forward and backward stroking and crossovers and pro-
vides instruction in forward and backward turns, edges, beginning
jumps and spins. A hockey stick is available for skaters interested
in learning basic hockey skills and game rules. Written and skill test-
ing required.

PE 184K Karate ...............................................................................1 credit
Basic skills of karate including blocks, punches, strikes, and kicks.
Discussions include technique and power, history of karate, and the
students’ legal rights and responsibilities for self-defense in Oregon.
This class includes sparring strategies.

PE 184N Conditioning for Martial Arts .........................................1 credit
Specific fitness, flexibility and movement skills for martial arts.
Includes cardio fitness and muscular endurance exercises. Devel-
opes core strength, limb strength, and improve flexibility. A variety
of exercise modalities will be used including body weight resistance
and resistance bands.

PE 184P Personal Defense ...............................................................1 credit
Instruction in fundamental personal defense skills and prevention
methods to improve one’s safety. Students develop skills which pro-
mote self-assurance to reduce panic. The Legal rights and responsi-
bilities in Oregon will also be presented.

PE 184R Disc Golf ............................................................................1 credit
Basic skills of Disc Golf. This class will include discussion of rules,
strategy and etiquette for organized play. Techniques learned in put-
ting, throwing and footwork will prepare students for active game
play. Students will be prepared for tournament play and enjoyment
of this exciting, competitive sport.

PE 184T Tennis ...............................................................................1 credit
Learn and develop basic tennis skills including forehand, backhand,
serves, return of serve and volley through drills, and game play. Learn
and apply basic doubles strategy, rules, etiquette and terminology.

PE 184U Tennis Intermediate ..........................................................1 credit
Tennis Intermediate is a continuation of Beg. Tennis designed to
refine basic skills and develop advanced strokes and strategy in sin-
gles and doubles play. Designed for experienced players.
PE 185M Meditation ...................................................... 1 credit
A survey of diverse meditation techniques to enable students to find the appropriate methods for use themselves. Includes discussion and practice.

PE 185T Tai Chi Chuan .................................................. 1 credit
Beginning concepts of Yang style Tai Chi Chuan. Develop flexibility, relaxation and concentration. Improve balance, energy flow, breathing and coordination of body movement.

PE 185U Tai Chi Chuan Intermediate ................................ 1 credit
Prerequisite: PE 185T with a C- or better or instructor approval. Intermediate concepts of Yang Style Tai Chi Chuan. Use of body strength, flexibility and mental control skills. Coordination of eyes, movement, breathing, & internal energy. Relaxation, improved health & concentration, increased energy, flexibility and clarity of mind.

PE 185Y Yoga ............................................................. 1 credit
Basic knowledge of asanas (postures), pranayama (breathing techniques), relaxation and yogic philosophy will be introduced. Includes both discussion and practice.

PE 185YG Gentle Yoga .................................................. 1 credit
Practice of gentle yoga postures, breathing and relaxation techniques. Designed for students who need modification of traditional practice due to limited mobility or other special needs. Includes discussion and practice.

PE 185Z Yoga Intermediate ........................................... 1 credit
Designed for continuing students who have a basic knowledge of asanas (postures), pranayama (breathing techniques), relaxation and philosophy. Includes discussion and practice.

PE 186D Downhill Skiing and Snowboarding ................. 1 credit
Instruction and practice in fundamental skills of snowboarding and downhill skiing. Instruction provided for beginner through advanced skill level. Classes held at an Oregon ski area. Fees cover transportation, lift ticket, and lessons. Equipment rentals not included.

PE 186H Handguns and Personal Safety ......................... 1 credit
A fast-moving course with a fundamental training approach to the physical skills necessary to become a safe and accurate handgun user. Legal and ethical issues pertaining to handgun use and ownership are included. Meets Oregon and Utah qualifications for concealed carry weapons permit.

PE 186W Whitewater River Rafting .............................. 2 credits
This course is designed to provide a foundation of basic river skills, with a focus on safety awareness and preparedness. Topics include: Rafting equipment and use, reading rapids, paddle-capitaining skills, boat maneuvering, river safety & rescue, and low impact river use.

PE 188B Basketball .................................................... 1 credit
Emphasis on the basic fundamentals of the game and individual skills. Daily play and skill work to include footwork, dribbling, passing, shooting, 1 on 1 skills, and team play. Students will experience 3 on 3, 4 on 4 and 5 on 5 game play.

PE 188C Basketball Intermediate .................................. 1 credit
A conditioning class designed for students interested in participating in competitive cross-country running. Emphasis on conditioning and endurance. Previous cross country experience recommended. Ability level evaluated first week with 5k endurance test.

PE 188D Cross Country Skills 2 ...................................... 1 credit
Prerequisite: PE 188C or similar experience. An advanced conditioning class that is designed for students interested in competitive cross-country running at the elite level. Strong emphasis on conditioning and endurance. Previous competitive cross country running experience highly recommended. Ability level evaluated first week with 5k endurance test.

PE 188E Cross Country Conditioning 2 .......................... 1 credit
Prerequisite: PE 192I or similar experience. A highly advanced conditioning class designed for students interested in competitive soccer experience at the elite level. Course covers terminology, regulations, and healthy lifestyle choices. Ability level evaluated first week with 5k endurance test.

PE 188F Flag Football .................................................. 1 credit
Fundamental skills, rules, and strategy taught through team play. Skill practice and repetition will include passing receiving, and running plays. 1 and 2 point conversions will be covered. Modified NFL Air It Out rules will be used.

PE 188G Soccer .......................................................... 1 credit
Instruction and practice in the fundamental soccer techniques, position play, offensive and defensive strategies and techniques will be discussed throughout the term.

PE 188H Soccer-Indoor .................................................. 1 credit
Instruction and practice in the fundamental indoor soccer techniques including individual skill development, position play, offensive and defensive tactics, team formation and rules of the game. Team play may include 11 on 11 or mini-game play.

PE 188I Softball .......................................................... 1 credit
This co-ed class is for students starting the game as well as those wanting to improve their skills for summer recreational play. Fundamentals such as catching, throwing, fielding, hitting and base running will be practiced. Outfield play, infield play and game strategy will be covered.

PE 188J Ultimate Frisbee ............................................... 1 credit
This co-ed game combines the passing and scoring of football, the cutting and guarding of basketball, and the non-stop movement of soccer. Students will learn basic frisbee handling skills utilized in game play. Discussion of rules, strategy, and terminology will be included.

PE 188K Volleyball ........................................................ 1 credit
Includes the fundamentals, rules, and strategy of volleyball. Develops specific skills necessary for successful recreational and/or competitive experience in volleyball.

PE 188L Volleyball Intermediate ........................................ 1 credit
This class will include a review of skills and techniques fundamental to the game. Additional strategies and techniques will be discussed. Previous competitive playing experience recommended.

PE 191A Cross Country Conditioning 1 ........................................... 1 credit
A conditioning class designed for students interested in participating in competitive cross-country running. Emphasis on conditioning and endurance. Previous cross country experience recommended. Ability level evaluated first week with 5k endurance test.

PE 191B Cross Country Skills 1 ........................................ 1 credit
Theory, analysis, advanced skills and techniques for skilled performers and individuals who are preparing for a competitive cross-country experience. Course covers terminology, regulations, and healthy lifestyle choices. Previous cross country experience recommended. Ability level evaluated first week with 5k endurance test.

PE 191C Cross Country Conditioning 2 .......................... 1 credit
Prerequisite: PE 191A or similar experience. An advanced conditioning class that is designed for students interested in competitive cross-country running at the elite level. Strong emphasis on conditioning and endurance. Previous competitive cross country running experience highly recommended. Ability level evaluated first week with 5k endurance test.

PE 191D Cross Country Skills 2 ........................................ 1 credit
Prerequisite: PE 191B or similar cross country running experience highly recommended. Theory, analysis, advanced skills and techniques for skilled performers and individuals preparing for a competitive cross country experience at the elite level. Course covers terminology, regulations, and healthy lifestyle choices. Ability level evaluated first week with 5k endurance test.

PE 191E Cross Country Conditioning 3 ......................... 1 credit
Prerequisite: PE 191C or similar experience. An advanced conditioning class designed for students interested in competitive cross-country running at the elite level. Strong emphasis on conditioning, exercise principles, and the development of fundamentals. Previous competitive playing experience recommended.

PE 192A Cross Country Skills 1 ........................................ 1 credit
Theory, analysis, advanced skills and techniques for students preparing for a competitive soccer experience. Course covers terminology, rules, strategy, conduct, sportsmanship and healthy lifestyle choices. Previous competitive playing experience recommended.

PE 192B Cross Country Conditioning 3 ......................... 1 credit
Prerequisite: PE 192A or similar experience. Theory, advanced skills and techniques for students preparing for a competitive soccer experience at an elite level. Course covers terminology, regulations, and healthy lifestyle choices. Previous competitive playing experience highly recommended.

PE 192C Basketball Conditioning 1 .................................. 1 credit
A conditioning class designed for students interested in participating in competitive basketball. Strong emphasis on conditioning, endurance and fundamentals. Previous competitive playing experience recommended.

PE 192D Basketball Skills-Mens Rules 1 ....................... 1 credit
Theory, analysis, skills and techniques for students preparing for a competitive basketball experience. Covers terminology, rules, strategy, conduct, sportsmanship and healthy lifestyle choices. Men’s basketball and Men’s NCAA rules. Previous competitive playing experience highly recommended.
PE 193C Basketball Conditioning 2 ............................1 credit
Prerequisite: PE193A or similar experience. Advanced conditioning class designed for students interested in participating in competitive basketball at an elite level. Strong emphasis on conditioning, endurance and fundamentals. Previous competitive playing experience highly recommended.

PE 193D Basketball Skills-Mens Rules 2 .....................1 credit
Prerequisite: PE193B or similar experience. Theory, advanced skills and techniques for students preparing for a competitive basketball experience at an elite level. Covers terminology, rules, strategies, conduct, sportsmanship and healthy lifestyle choices. Men’s ball and NCAA rules. Competitive playing experience highly recommended.

PE 195A Basketball Women’s Conditioning 1 ..................1 credit
A conditioning class designed for students interested in participating in competitive basketball. Strong emphasis on conditioning, endurance and fundamentals. Previous competitive playing experience recommended.

PE 195B Basketball Skills-Women’s Rules 1 ..................1 credit
Theory, analysis, skills and techniques for students preparing for a competitive basketball experience. Covers terminology, rules, strategy, conduct, sportsmanship and healthy lifestyle choices. Women’s ball and Women’s NCAA rules will be used. Previous competitive playing experience recommended.

PE 195C Basketball-Women’s Conditioning 2 ..................1 credit
Prerequisite: PE195A or similar experience. Advanced conditioning class designed for students interested in participating in competitive basketball at an elite level. Strong emphasis on conditioning, endurance and fundamentals. Previous competitive playing experience highly recommended.

PE 195D Basketball Skills-Womens Rules 2 ....................1 credit
Prerequisite: PE195B or similar experience. Theory, advanced skills and techniques for students preparing for a competitive basketball experience at an elite level. Covers terminology, rules, strategies, conduct, sportsmanship and healthy lifestyle choices. Women’s ball and NCAA rules. Competitive playing experience highly recommended.

PE 196A Track & Field Conditioning 1 ..........................1 credit
A conditioning class designed for students interested in participating in competitive track and field. Emphasis on conditioning, development of fundamentals and skills. Previous competitive track and field experience recommended.

PE 196B Track and Field Skills-Rules 1 ..........................1 credit
Theory, analysis, advanced skills and techniques for skilled performers and individuals who are preparing for a competitive track and field experience. Course covers terminology, regulations, strategies, conduct, sportsmanship and healthy lifestyle choices. Previous competitive track and field experience recommended.

PE 196C Track & Field Skills-Mens Rules 2 ....................1 credit
Prerequisite: PE196B or similar experience. Advanced conditioning class designed for students interested in participating in competitive track and field at an elite level. Emphasis on conditioning, development of fundamentals and skills. Previous competitive track and field experience highly recommended.

PE 196D Track & Field Skills-Rules 2 ............................1 credit
Prerequisite: PE196B or similar experience. Advanced course that covers theory, analysis, skills and techniques for individuals who are preparing for a competitive track and field experience at an elite level. Covers terminology, regulations, strategies, conduct, sportsmanship and healthy lifestyle choices. Course is more technical and advanced than PE196C.

PE 197A Baseball Conditioning 1 .................................1 credit
A conditioning class designed for students interested in participating in competitive baseball. Emphasis on conditioning and development of fundamentals. Previous competitive playing experience recommended.

PE 197B Baseball Skills 1 ........................................1 credit
Prerequisite: PE197A or similar experience. Advanced course in theory, analysis, skills and techniques for skilled performers and individuals who are preparing for a competitive baseball experience. Course covers terminology, regulations, strategy, conduct, sportsmanship and healthy lifestyle choices. Previous competitive playing experience recommended.

PE 197C Baseball Conditioning 2 ................................1 credit
Prerequisite: PE197A or similar experience. An advanced conditioning class designed for students interested in participating in competitive baseball at an elite level. Emphasis on conditioning and development of fundamentals. Previous competitive playing experience highly recommended.

PE 197D Baseball Skills 2 ........................................1 credit
Prerequisite: PE197B or similar experience. Advanced course in theory, analysis, skills and techniques for individuals who are preparing for a competitive baseball experience at an elite level. Covers terminology, regulations, strategy, conduct, sportsmanship and healthy lifestyle choices. Competitive playing experience highly recommended.

PE 298 Independent Study ........................................1 credit
A variable credit course based on independent study contracted between the instructor, student and Division Dean.

Physical Science - See Chemistry, Earth and Environmental Science, Physics
Prerequisites: PTA 132, and PTA 132L. Corequisite: PTA 104. This co-requisite lab for PTA 104 allows students to practice clinical skills, tests, and measures for improving outcomes in patients/clients with orthopedic conditions. May be offered in a format with some online instruction.

PTA 132 Applied Kinesiology 1 .................................................... 2 credits
Prerequisites: PTA 101, PTA 101L Corequisite: PTA 132L. Students apply kinesiology for the lower body to clinical cases and conditions within the scope of physical therapy. Emphasis on safe and effective clinical decision-making, therapeutic exercise selection and application, and injury prevention and clinical-management. May be offered online.

PTA 132L Applied Kinesiology 1 Lab ........................................... 2 credits
Prerequisite: PTA 101, PTA 101L. Corequisite: PTA 132. This co-requirequisite lab to PTA 132 allows for practice of physical therapy interventions and data collection based on principles of kinesiology for the lower quarter. Skills include documentation, palpation, goniometry, therapeutic exercise, manual muscle testing, gait and stretching. May be in a format with some online instruction.

PTA 133 Applied Kinesiology 2 .................................................... 2 credits
Prerequisites: PTA 132, PTA 132L Co-requisite: PTA 133L. Students apply kinesiology for the upper body and spine to clinical cases and conditions within the scope of physical therapy. Emphasis on safe and effective clinical decision-making, therapeutic exercise selection and application, and injury prevention and clinical-management. May be offered online.

PTA 133L Applied Kinesiology 2 Lab ........................................... 2 credits
Prerequisite: PTA 132 and PTA 132L Corequisite: PTA 133. This co-requirequisite lab to PTA 133 allows for physical therapy skills practice and data collection based on principles of kinesiology for the upper quarter. Skills include palpation, goniometry, therapeutic exercise, manual muscle testing, posture analysis, and documentation. May be offered in a format with some online instruction.

PTA 200 Professionalism, Ethics, and Exam Preparation ........................... 4 credits
Prerequisite: Admission into PTA Program, second year student. Corequisite: PTA 203. This course is designed to prepare the student physical therapist assistant (SPTA) for ethical situations that are common in the clinical setting. The course prepares the SPTA for the licensing exam and further professional development for entry into the workplace. May be offered online.

PTA 203 Contemporary Topics in Physical Therapy ................................. 2 credits
Prerequisite: Admission into PTA Program, second year student. Corequisite: PTA 200. This course explores contemporary issues affecting clinical and professional physical therapy practice and impacts on the PTA. Course culminates with a public class presentation of service learning projects to the PTA Advisory Committee. May be offered online.

PTA 204 PT Interventions - Neurological Dysfunctions ............................ 5 credits
Prerequisites: PTA 104, PTA 104L, PTA 133, and PTA 133L. Corequisite: PTA 204L. This course is designed to assist PTA students in gaining a greater understanding of the various neurological challenges, including mental health, that affect clients in the PT environment. May be offered online.

PTA 204L PT Interventions - Neurological Dysfunctions Lab ......................... 2 credits
Prerequisites: PTA 104, PTA 104L, PTA 133, and PTA 133L. Corequisite: PTA 204. This co-requirequisite lab for PTA 204 allows students to practice clinical skills, tests, and measures for improving outcomes in patients/clients with neurological conditions. May be offered in a format with some online instruction.

PTA 205 PT Interventions - Complex Medical Dysfunctions ......................... 4 credits
Prerequisites: PTA 104, PTA 104L, PTA 133, and PTA 133L. This course investigates physiological anomalies, clinical presentation and physical therapy treatment approaches for patients with complex medical conditions. Students advance clinical decision-making using case studies, treatment models, and evidence-based literature. May be offered online.

PTA 205L PT Interventions - Complex Medical Dysfunctions Lab ..................... 2 credits
Prerequisites: PTA 104, PTA 104L, PTA 133, and PTA 133L. This co-requirequisite lab for PTA 205 allows students to practice clinical skills, tests, and measures for improving outcomes in patients/clients with complex medical/integument conditions. May be offered in a format with some online instruction.

PTA 280A Co-op Ed: First Clinical Affiliation ........................................... 6 credits
Prerequisite: PTA 104, PTA 104L, PTA 133 and PTA 133L. Second year PTA students apply PT interventions under PT/PTA supervision at a contracted clinical site. Students progress toward advanced beginner and intermediate PTA practice by demonstrating communication and critical thinking for the workplace. This is the first of three off-campus clinical learning experiences.

PTA 280B Co-op Ed: Second Clinical Affiliation ....................................... 6 credits
Prerequisite: PTA 280A Second year PTA students apply PT interventions under PT/PTA supervision at a contracted clinical site. Students progress toward advanced intermediate and entry-level PTA practice by demonstrating communication and critical thinking for the workplace. This is the second of three clinical learning experiences.

PTA 280C Co-op Ed: Third Clinical Affiliation ........................................... 6 credits
Prerequisite: PTA 280B Second year PTA students apply PT interventions under PT/PTA supervision at a contracted clinical site. Students progress toward advanced intermediate and entry-level PTA practice by demonstrating communication and critical thinking for the workplace. This is the third and final of three off-campus clinical learning experiences.

PTA 298L Independent Study: ................................................. 2 credits
A non-paid, variable credit course based on independent study contracted between an instructor and a student. The emphasis will be in areas of student tutoring or research-related projects which provide an opportunity for students to pursue in-depth study in an area previously or concurrently covered in a survey or introductory course. The instructor will make the final determination on project validity and the credits earned. A student may enroll in only one Independent Study course in a given term. Independent Study may be repeated up to a maximum of 12 credits.

Physics

For Information, contact the Science Division, Bldg. 16/Rm. 156, 541.463.5446.

ASTR 107 Survey of Astronomy ................................................. 3-4 credits
Prerequisite: MTH 052 or above with grade of ‘C-’ or better or pass placement test. This course provides a one-term survey of the science of astronomy. The course introduces the science of the origin, characteristics and evolution of solar systems, stars, galaxies and the universe. It is offered in classroom and telecourse formats. Lab activities and lab credit are a fixed part of the 4-credit classroom format, and optional in the 3-4 credit telecourse format.

ASTR 121 Astronomy of the Solar System ......................................... 4 credits
Prerequisite: MTH 052 or above with grade of ‘C’ or better or pass placement test. Some or all of the ASTR 121,2,3 can be taken in any order. The ASTR 121,2,3 sequence provides an in-depth and comprehensive introduction to the science of astronomy. The classes are designed to serve non-science majors, but also offer a good introduction for prospective science majors interested in astrophysics. The classes do not have a significant lab component. ASTR 121 focuses on the search for understanding through naked-eye astronomy and the science of astronomy focused on the solar system, particularly our solar system and comparative planetology, the Earth and its Moon, detailed consideration of the individual planets, solar system debris including comets and asteroids, and modeling the origin of our solar system.

ASTR 122 Stellar Astronomy .................................................. 4 credits
Prerequisite: MTH 052 or above with grade of ‘C-’ or better or pass placement test. Some or all of the ASTR 121,2,3 can be taken in any order. ASTR 122 provides an introduction to astronomy as science and the fundamental physics concepts underlying our understanding of stars. Our Sun and its place in our Milky Way galaxy begins a comprehensive exploration of the nature of stars, from their birth to multiple paths to maturity and death, including super novae and stellar black holes. See information about the ASTR 121,2,3 sequence in the ASTR 121 course description.

ASTR 123 Cosmology and the Large-Scale Structure of the Universe ..................... 4 credits
Prerequisite: MTH 052 or above with grade of ‘C-’ or better or pass placement test. Some or all of ASTR 121, 122, 123 can be taken in any order. ASTR 123 focuses on the search for understanding of the nature of the Milky Way galaxy, Normal Galaxies, Active Galaxies and Quasars, Life in the Universe, and Cosmology including the Big
COURSE DESCRIPTIONS

GS 101 Fundamentals of Physics ................................. 4 credits
Prerequisite: MTH 052 or above with grade of ‘C-’ or better or pass placement test. Some or all of the GS 101,2,3 sequence can be taken in any order. This introductory course examines the system of relations, the logic of analysis and reasoning, and the development and application of critical analytical skills in addressing a wide range of political topics.

GS 201 U.S. Government and Politics .......................... 3 credits
A continuation of U.S. Government and Politics that focuses on the institutions of American Government (the US Congress, the Presidency, the Federal Bureaucracy, and the Federal Court System), the history, formation, and implementation of civil rights and liberties in United States, and the formation and implementation of U.S. economic and foreign policy.

GS 203 State and Local Government and Politics .......... 3 credits
This class completes the three-course sequence in U.S. Government and Politics. The course examines the place of state and local government and politics in the larger federal system. Topics will include federalism, electoral politics, institutions and actors in city, county, and state politics and government, taxation and economic development. This course will include both a comparative analysis of various states and their communities as well as examples from Lane County and Oregon.

PS 201 U.S. Government and Politics .......................... 3 credits
A continuation of U.S. Government and Politics that focuses on consideration of the debates surrounding the formation of the Constitution, the theory and practice of American Federalism, American political economy, media and politics, the formation and impact of public opinion, and various forms of political participation including voting, political parties, campaigns, interest groups, and social movements.

PS 202 U.S. Government and Politics .......................... 3 credits
PS 203 State and Local Government and Politics .......... 3 credits

PS 204 Introduction to the Comparative Politics ........... 3 credits
This course is a general introduction to the introduction to the methods of comparing political systems, followed by contemporary case studies applying these methods to several countries in different stages of economic, social and political development.

PS 205 International Relations .................................... 3 credits
This introductory course examines the system of relationships between states, including international organizations and...
non-governmental organizations. Global issues such as international trade, the environment, human rights, and organized violence are emphasized.

PS 208 Introduction to Political Theory ......................... 4 credits This course is designed to introduce students to modern political theory, with an emphasis on social contract theory. The course focuses on questions about why government is formed, the basis of individual obligations and rights in relation to the state, the meaning of democracy, and when actions by government give rise to the right and obligation to resist and rebel. To examine these questions, the course uses different frameworks for thinking about political systems and duties including the individualistic approach, the communitarian approach, and the pluralistic perspective. Readings are assigned from modern and contemporary works in political theory.

PS 211 Peace and Conflict Studies: Global ....................... 4 credits This course focuses on issues of peace and conflict at the global level. Based upon principles of social and economic justice, the course is designed to integrate theory with practice. Topics include the relationship of war and militarism to peace, violence embedded in the structures of the global economic system, conflicts resulting from environmental exploitation, feminist peace paradigms, and peace at the individual level as the foundation for global peace.

PS 212 Peace and Conflict Studies: National .................... 4 credits This course focuses on issues of peace and conflict at the national level. Based upon principles of social and economic justice, the course is designed to integrate theory with practice. The focus is on social justice issues at the local level. Topics vary in order to focus on important contemporary local issues. Local politicians and activists are invited to speak about their work and activism. Guest cover a wide variety of issues and perspective normally ranging from the mayor and the police chief, to activists involved in various social justice issues including anti-war activism, to anarchists.

PS 225 Political Ideology ........................................... 4 credits Political ideologies are comprehensive systems of political beliefs. More than particular opinions or suggestions for political programs, they contain interpretations of human nature, individual rights, and social life. They are oriented towards political action, containing particular programs for the structure of the state and authority, economic systems, and methods for solving political problems. This course focuses on the major ideologies of the modern era. These include liberalism, conservatism, fascism, Marxism, democratic socialism, anarchism, neo-liberalism, civil rights, feminism, and environmentalism. It examines the basic tenets of each ideology; the historical circumstances giving rise to their development and implementation, and their relevance to current political and social discourse.

PS 275 Legal Processes Through Civil Rights and Liberties ........................................... 4 credits This course introduces students to basic concepts of the legal system by focusing on the civil rights and liberties of American citizens. Among the legal principles covered are how the court system is organized, the differences between civil and criminal law, and how court cases are appealed. Fundamental civil rights and liberties covered include the issues of free speech, unreasonable search and seizure, the right to counsel, the impact of the Patriot Act on these rights, the right to privacy including a woman’s right to control her own body, freedom of religion, the separation of church and state, and the equal protection of the laws dealing with discrimination in America.

PS 280 LW Co-op Ed: Pre Law ........................................ 2-12 credits This internship is for students anticipating a legal career. Learn and work with lawyers, legal assistants and other legal professionals in areas of legal administration, research, working with clients and the courts. Previous legal experience or coursework not required; a one term commitment is required, but course can be repeated.

PS 297 Environmental Politics ........................................ 4 credits This course focuses on current environmental problems, alternative frameworks for understanding these problems, and appropriate political responses. Among the problems covered are overpopulation, economic globalization, ozone depletion, the greenhouse effect, bio-colonization, and the depletion of renewable and non-renewable resources. Alternative frameworks considered include the philosophical visions of Deep Ecology and Gaia. These frameworks are used to investigate possible ways to create sustainable economic, political and social systems. Finally, the course focuses on grass roots politics, including groups and social movements actively seeking to promote environmental and social justice.

PS 297_H Environmental Politics-Honors ...................... 4 credits This is an honors-level course open to any student prepared to complete honors-level coursework. Honors classes delve deeper into course topics and require a high level of student motivation; the pace may be faster than non-honors courses. WR 121-readiness (score of at least 96 on the sentence-skills placement test) recommended. See lanec.edu/honors for more information. This course focuses on current environmental problems, alternative frameworks for understanding these problems, and appropriate political responses. Among the problems covered are overpopulation, economic globalization, ozone depletion, the greenhouse effect, bio-colonization, and the depletion of renewable and non-renewable resources. Alternative frameworks considered include the philosophical visions of Deep Ecology and Gaia. These frameworks are used to investigate possible ways to create sustainable economic, political and social systems. Finally, the course focuses on grass roots politics, including groups and social movements actively seeking to promote environmental and social justice.

Psychology

For information, contact the Social Science Division, Center Bldg.Rm. 403, 541.463.5427.

CPSY 200 Understanding Addictive Behavior ...................... 3 credits Overview of addiction and the impact on individuals and society, introduces models and theories of addiction. The social and cultural environments of substance abuse and addictions will be explored. Students will be introduced to treatment models of prevention and treatment. May be offered as a live interactive course.

PSY 110 Exploring Psychology ........................................ 3 credits A basic introduction to psychology that encourages an appreciation and understanding of the scientific approach to the study of human behavior. The approach integrates several perspectives on human thought and behavior. Learning through video, textbook, and workbooks. Also available as a live interactive course Fall, Winter, Spring terms.

PSY 201 General Psychology ........................................ 4 credits Prerequisite: Sophomore standing recommended. Scientific principles of psychology and psychological research; an introduction to statistical methodology, developmental and structural aspects, neuropsychology and neurochemistry, and brain anatomy; senses and perceptual processes; states of consciousness. Basic principles and theories of behavior. May be offered online.

PSY 202 General Psychology ........................................ 4 credits The study of behavior as it is influenced by learning, remembering, forgetting, higher brain functions, motivation and emotions. May be offered online.

PSY 203 General Psychology ........................................ 4 credits Individual differences and methods of measurement, personality dynamics, stress, abnormal, social, and applied psychology. Previous PSY 201 & PSY 202 recommended. May be offered online.

PSY 205 Applied Psychology ........................................ 3 credits Prerequisite: PSY 201 or PSY 203. Emphasizes psychological principles that can be readily applied to everyday life and work. Application of these principles will be illustrated by activities and practices that are easily transported to school, home, and job.

PSY 212 Learning and Memory ....................................... 3 credits Recommend at least one introductory psychology course before taking this course. Lectures, demonstrations, and review of experimental research in the areas of animal and human learning. Variables that influence learning will also be considered including stimulus-response connections, discrimination, chaining, verbal association, concept formation, and problem solving. Memory, transfer of learning, forgetting, insight and observational learning will also be covered.
PSY 213 Introduction to Neuropsychology .......................... 3 credits
Prerequisite: PSY 201. An introduction to the physiological processes underlying behavior. The human organism is explored as a specific nervous system interacting with its environments. Topics may include brain, perceptual, cognitive, memory, socio-emotional, movement, sleep, reproductive behavior, emotion and stress, hunger, learning and memory, human communication, neurological disorder and mental disorder.

PSY 215 Lifespan Developmental Psychology .......................... 3 credits
Prerequisite: PSY 201. An introduction to psychological aspects of human development from conception through old age. Topics covered include brain, perceptual, cognitive, memory, socio-emotional, and personality development. Theoretical and methodological issues pertaining to the study of development will also be covered. May be offered online.

PSY 216 Social Psychology ........................................... 3 credits
Prerequisite: PSY 201 or PSY 203. The boundary field where sociology and psychology overlap. The influence of psychological process on groups, and the influence of culture, society, and groups on individuals. Topics: group dynamics, leadership, socialization, attitude change, and others. Emphasis is put on learning to use social psychological findings to explain real-life events.

PSY 217 Experimental Psychology ..................................... 4 credits
Prerequisite: PSY 201. This course presents the basic principles of the modern scientific approach to the study of human behavior. It includes the study of the terminology, methods and values that support psychological research. The primary focus is on the understanding of common research designs and what conclusions can reasonably be drawn from the results of experiments using those designs. Students will have an opportunity to conduct experiments of their own design.

PSY 218 Multicultural Psychology ................................... 4 credits
Prerequisite: PSY 201 or PSY 203. This course is designed to assist students in understanding the diversity of individual experiences. It is based on developing awareness, knowledge, and skills as they relate to the areas of worldview, identity, and acculturation with regard to the exploration of psychological issues. These topics will include cognition, sensation, perception, intelligence, emotion, motivation, development, disorders, and social psychology. In addition, we will explore the methodologies of cross-cultural research in psychology. We will explore and identify cultural assumptions about people different from ourselves via modeling, observations, readings, and experiential exercises.

PSY 231 Human Sexual Behavior ...................................... 3 credits
Prerequisite: PSY 201. Explores human sexuality by examining the behavioral, psychological, and biological components that compose our sexuality. Topics include cross-cultural comparisons, learned and developmental origins, biological systems, variations in sexual behavior, and sexual difficulties. This course emphasizes the behavioral rather than the health issues in human sexuality.

PSY 239 Introduction to Abnormal Psychology ...................... 3 credits
Recommends at least one introductory psychology course before taking this course. Introduction to Abnormal Psychology bridges the gap between mental health-related concepts touched upon in the General Psychology course and the more in-depth analysis of issues relating to emotional disturbance covered in the typical upper division class in Abnormal Psychology. Major topics to be covered will include the historical and current status of behavior disorders, introductory statistics regarding the incidence and classification of persons who are emotionally disturbed and a framework for understanding such phenomena. May be offered as a telecourse.

PSY 280 Co-op Ed: Psychology ........................................ 3-12 credits
In this internship course students will gain psychology-related work experience in community organizations. Students may integrate theory and practice, develop skills, explore career options, and network with professional while earning college credit.

Radio - See Media Arts
Reading - See Study Skills and College Prep
Religion - See Philosophy and Religion
of instructor. Orientation to respiratory care profession and affiliated clinical sites. Topics include job requirements, professional credentialing, training for HIPAA, infection control, blood-borne pathogen, harassment, and general hospital policy/procedure. Observational rotations at clinical sites required.

**RT 148 Advanced Placement Clinical Practice** .........................1-8 credits
Prerequisite: Acceptance into Respiratory Care Program and consent of instructor. This course is designed to assess the clinical skills of candidates for advanced placement in the Respiratory Care program. Students will be observed performing all aspects of clinical respiratory care to determine appropriate placement in the clinical practice courses of the program.

**RT 216 Respiratory Care Case Review - Part 3** .........................2 credits
Prerequisite: RT 136 (minimum passing grade of C-), or consent of instructor. Third of a four-part sequence providing instruction in etiology, pathogenesis, pathophysiology of respiratory disorders, and their clinical manifestations. Case scenarios require assessment of data, and application of principles/procedures from program courses relevant to treatment of disorder. May be offered online.

**RT 226 Clinical Practice 1** ..................................................8 credits
Prerequisite: RT 144 (minimum passing grade of C-), or RT 146 (minimum grade of Pass) or consent of instructor. First in a sequence of four courses for development of skills in patient assessment and application of therapeutic modalities in the treatment of respiratory disorders; focus is on basic therapy, infection control, and development of professional attitudes/behaviors in the clinical setting.

**RT 241 Principles of Mechanical Ventilation Lab** ......................1 credit
Co-requisite: RT 244 or consent of instructor. Emphasis is placed on analysis and understanding of functional mechanical ventilator characteristics, the assembly of patient circuits, ventilator monitoring, and weaning procedures. Also included is analysis of arterial blood gas parameters, respiratory patient assessment and airway management.

**RT 244 Principles of Mechanical Ventilation** .........................3 credits
Prerequisite: RT 110 (minimum passing grade of C-) or consent of instructor. Emphasis is on the function of mechanical ventilation equipment. Content includes current indications, contraindications and hazards of modes of continuous mechanical ventilation. Advanced ventilator monitoring techniques, analysis of ventilator waveforms, and problem-solving algorithms presented. May be offered online.

**RT 248 Clinical Practice 2** ...............................................6 credits
Prerequisite: RT 236 (with a minimum grade of Pass) or consent of instructor. Second of four courses for continued development of skills in patient assessment and application of therapeutic modalities in the treatment of respiratory disorders, and professional attitudes/behaviors in the clinical setting. Emphasis on diagnostic studies of pulmonary disorders.

**RT 251 Pulmonary Diagnostics and Monitoring Lab** ............1 credit
Co-requisite: RT 254. Emphasis is placed on bedside patient assessment, laboratory investigation, pulmonary function testing techniques and interpretation of results, radiologic assessment and arterial blood gas interpretation. Topics include bronchoscopy assisting and assessment of sleep disorders.

**RT 254 Pulmonary Diagnostics and Monitoring** ..................3 credits
Prerequisites: RT 127 and RT 144 (minimum passing grade of C-), or consent of instructor. Emphasis is placed on diagnostic and monitoring principles used in the clinical evaluation and pulmonary management of patients. Cardiopulmonary assessment and related diagnostic procedures are presented for acute and chronic cardiovascular and pulmonary disease. May be offered online.

**RT 256 Respiratory Care Case Review - Part 4** ...................2 credits
Prerequisite: RT 216 (minimum passing grade of C-), or consent of instructor. Fourth of a four-part sequence providing instruction in etiology, pathogenesis, pathophysiology of respiratory disorders, and their clinical manifestations. Case scenarios require assessment of data, and application of principles/procedures from program courses relevant to treatment of disorder. May be offered online.

**RT 258 Clinical Practice 3** .............................................8 credits
Prerequisite: RT 248 or consent of instructor. Third of four courses focuses on development of skills in patient assessment, application of therapeutic modalities with critical care patients, and professional attitudes/behaviors in the clinical setting. Adult intensive care and initiation/monitoring of mechanical ventilators emphasized.

**RT 262 Neonatal/Pediatric Respiratory Care** ......................3 credits
Prerequisite: RT 244 (minimum grade of C-), or consent of instructor. Respiratory care of neonate/pediatric patients presented. Emphasis on pathophysiology, pulmonary complications, and intensive care procedures. Transport and assessment of the sick newborn and child are emphasized. Student training in Neonatal Resuscitation Protocol and Pediatric Advanced Life Support. May be offered online.

**RT 266 Emergency and Critical Care - Part 1** ......................3 credits
Prerequisite: RT 244 (minimum grade of C-), or consent of instructor. Provides information on techniques used with critical care patients; in-depth discussion of electrocardiography, emergency response, and medical monitoring/management. Prepares student for training in Advanced Cardiac Life Support.

**RT 268 Clinical Practice 4** ...........................................8 credits
Prerequisites: RT 258 (with a minimum grade of Pass) or consent of instructor. Fourth of four courses focuses on continued development of skills in critical care patient assessment, application of intensive care therapeutic modalities, and professional attitudes/behaviors in the clinical setting. Assignments include neonatal and pediatric respiratory care.

**RT 270 Clinical Competency Assessment** .........................1 credit
Prerequisite: RT 268 (minimum grade of Pass) or consent of instructor. This course is designed to provide format for final evaluation of student competence in performance of skills taught in previous lab and clinical courses. Instructor will evaluate student performance using performance evaluations that identify passing criteria for each skill.

**RT 274 Credentialing Topics** ........................................2 credits
Prerequisite: RT 266 (minimum passing grade of C-), or consent of instructor. Preparation for credentialing examinations required for professional practice. Facilitates integration of recall, application and analysis levels of knowledge related to performance of respiratory care procedures. Examination matrices, scoring systems, question analysis, and practice exams included.

**RT 276 Emergency and Critical Care - Part 2** ......................2 credits
Prerequisite: RT 262 and RT 266 (minimum passing grade of C-), or consent of instructor. This course builds on content presented in the prerequisite course. Provides opportunity for certification in Neonatal Resuscitation Protocol, Advanced Cardiac Life Support, and Pediatric Advanced Life Support.

**RT 280 Co-op Ed: Respiratory Therapy** ..............................1-12 credits
Prerequisite: Acceptance into the Respiratory Care Program and consent of instructor. Provides an opportunity to earn college credit while working in the field of Respiratory Care under supervision, supporting class work and future employment. May be taken as an optional elective. Required four credit course in final term of program as critical-care focused clinical practicum.

**Robotics - See Electronics**

**Sales and Marketing - See Business**

**Science - See Anatomy/Physiology/Microbiology, Biology, Chemistry, Earth and Environmental Science, Energy Management, Engineering, Physics**

**Semiconductor Manufacturing - See Electronics**

**Social Science - See Anthropology, Criminal Justice, Economics, Geography, Ethnic Studies, History, Human Services, Humanities, Philosophy and Religion, Political Science, Psychology, Sociology, Women’s Studies**

**Sociology**

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

**SOC 108A Selected Topics in Women's Studies,**

**Women’s Bodies, Women’s Selves** ..................................3 credits
Throughout history, cultural views and practices regarding women’s bodies have fundamentally affected women's experiences, position, and relative power in society. This class focuses on the embodied experiences of women, in what ways these experiences are socially
constructed, and women's accommodation and resistance to those cultural constraints. Major areas of focus will include women's health, reproduction, sexuality, gendered violence, and body image, and will include cross-cultural information.

SOC 204 Introduction to Sociology ......................................................... 3 credits
Development and application of the sociological imagination, concepts, and perspectives concerning human groups, includes attention to socialization, culture, organization, stratification and societies. May be offered as a telecourse or online fall term.

SOC 205 Social Stratification and Social Systems ........................................ 3 credits
Explores patterns of social inequality, or stratification, using sociological research and theory. Focuses on race, class, and gender inequality. May be offered as a telecourse.

SOC 206 Institutions and Social Change ..................................................... 3 credits
Sociological study of dynamic organizational nature of society through analysis of social change and major social institutions such as family, education, religion, economy, and political systems. May be offered as a telecourse.

SOC 207 Women and Work ................................................................. 3 credits
Women perform nearly two-thirds of the world's work, receive one-tenth of the world's income, and own less than one-hundredth of the world's property. This class is an introduction to and analysis of the issues necessary to understand women's work experience and economic position, past and present. Focus areas will include the multicultural economic and labor history of women in the US, the family and women's work, welfare/workfare issues, and women's position in the global economy.

SOC 208 Sport and Society ................................................................. 3 credits
This course explores the relations between sport and society. While we use sociology to help make sense of sport, we also use sport to develop the ability to think sociologically about society. Subjects include sport and: values, socialization, deviance, social problems, social inequalities including class, race, and gender, social institutions including the economy, politics, mass media, and religion, and social change.

SOC 210 Marriage, Family, and Intimate Relations .................................... 3 credits
Love, sexuality, intimate partnerships, marriage, parenting, and family disruptions are analyzed in a social context. A sociological approach offers insights into our personal experiences and informs our perspectives on social policies that affect families and intimate relationships.

SOC 211 Social Deviance ................................................................. 3 credits
The study of behavior that departs from the expectations of a group or society. Examines delinquency and crime; sexual, religious and lifestyle deviance; deviant subcultures; society's reaction to deviance; explanations of causes of deviance and the tracing of its effects on individuals and society.

SOC 212 Race and Ethnicity ................................................................. 3 credits
This course explores a comparative history of racial dynamics with particular emphasis on the way in which race, ethnicity, and class, inform these histories. A comparative sociological approach will be used in order to explore the process of racial information. Throughout the course we will recuperate the histories of racialized groups and expose sites of oppression, struggle, and resistance.

SOC 215 Social Class ................................................................. 3 credits
Examines the centrality of social class in contemporary society. Topics include conceptions of class, class structure, class consciousness, class inequality and social mobility, worker alienation and exploitation, ideology, the relations between class and culture, the role of money and power elites in politics, the role of transnational corporations in the world, and class-based social movements and revolutions.

SOC 216 Global Social Movements ......................................................... 3 credits
The 21st century has been marked with unprecedented social movement activity. Seattle, Chiapas Genoa, South Africa, Argentina, and New Delhi, have become symbolic sites where social actors are forging global alliances to redefine, redirect, and resist the effects of globalization. This course examines the dynamic social, political, economic, and cultural, aspects of globalization though contemporary social movements that have developed in response to globalization. A comparative sociological approach will be used in order to explore globalization, international trade, labor, human and collective rights, and trans-national resistance movements.

SOC 218 Sociology of Gender ......................................................... 3 credits
Sociological research and theory is used to examine how gender is socially constructed through social institutions, social interaction, and the formation of a gendered identity. Considers how gender interacts with other categories of difference such as race and social class) to shape major social institutions and personal experiences. Explores how gender arrangements can be transformed.

SOC 225 Social Problems ................................................................. 3 credits
An examination of selected social problems-basic facts, effects on individual and society, and explanations. Problems will be selected from the following three areas, but not all topics will be covered each term: 1. Systemic problems: racial and social discrimination, inequality and poverty, militarization and war, ecological problems, overpopulation, urban and rural problems, life cycle problems. 2. Problems of specific institutions: government, economy, family, education, religion, and social services. 3. Personal pathologies: mental illness, suicide, alcoholism, and drug addiction.

SOC 280 Co-op Ed: Sociology ................................................................. 3-12 credits
In this internship course students will gain sociology-related work experience in community organizations. Students may integrate theory and practice, develop skills, explore career options, and network with professionals while earning college credit.

Spanish - See Language Studies

Speech Communication

For information, contact the Language, Literature and Communication Division, Center Bldg/Rm. 457, 541.463.5419.

SP 100 Basic Communication ......................................................... 4 credits
Basic Communication is a survey course designed to provide students with an overview of communication as a field of study. Its aim is to help develop oral communication competencies needed to function effectively in diverse communication contexts. The course addresses a variety of theoretical topics in communication studies and attempts to build skills in interpersonal, small group, and public speaking. May be offered online.

SP 105 Listening and Critical Thinking ................................................ 4 credits
This course is designed to help students learn to express their ideas to a public audience with confidence and clarity. The aim of this course is to teach students to speak in a public setting by preparing presentations on a number of diverse topics for use on a variety of occasions. This course provides students with opportunities to learn how to analyze an audience and tailor their messages to that audience. In addition, students learn to become critical listeners by analyzing and critiquing other students' presentations.

SP 111 Fundamentals of Public Speaking ........................................... 4 credits
This course is designed to help students learn to express their ideas to a public audience with confidence and clarity. The aim of this course is to teach students to speak in a public setting by preparing presentations on a number of diverse topics for use on a variety of occasions. This course provides students with opportunities to learn how to analyze an audience and tailor their messages to that audience. In addition, students learn to become critical listeners by analyzing and critiquing other students' presentations.

Spanish - See Language Studies

Speech Communication

For information, contact the Language, Literature and Communication Division, Center Bldg/Rm. 457, 541.463.5419.

SP 100 Basic Communication ......................................................... 4 credits
Basic Communication is a survey course designed to provide students with an overview of communication as a field of study. Its aim is to help develop oral communication competencies needed to function effectively in diverse communication contexts. The course addresses a variety of theoretical topics in communication studies and attempts to build skills in interpersonal, small group, and public speaking. May be offered online.

SP 105 Listening and Critical Thinking ................................................ 4 credits
This course is designed to help students learn to express their ideas to a public audience with confidence and clarity. The aim of this course is to teach students to speak in a public setting by preparing presentations on a number of diverse topics for use on a variety of occasions. This course provides students with opportunities to learn how to analyze an audience and tailor their messages to that audience. In addition, students learn to become critical listeners by analyzing and critiquing other students' presentations.

SP 111 Fundamentals of Public Speaking ........................................... 4 credits
This course is designed to help students learn to express their ideas to a public audience with confidence and clarity. The aim of this course is to teach students to speak in a public setting by preparing presentations on a number of diverse topics for use on a variety of occasions. This course provides students with opportunities to learn how to analyze an audience and tailor their messages to that audience. In addition, students learn to become critical listeners by analyzing and critiquing other students' presentations.

SP 115 Introduction to Intercultural Communication ................................ 4 credits
This course addresses how work, study or travel influences intercultural interactions. A variety of topics will illustrate how differing values, beliefs, attitudes, and social systems effect verbal and nonverbal human communication behaviors. Students will develop awareness, understanding, and sensitivity to cultural diversity of communication as well as different nations. May be offered online.

SP 120 Business and Professional Speech ........................................... 4 credits
Business and Professional Communication is designed to increase student understanding and implementation of effective communication behaviors and skills. Throughout the term students will learn to recognize, understand, and perform communication in settings common to business and the professions. Instructor includes interpersonal communication, small group communication, interviewing, technical communication, proposal preparation and presentation. In addition, attention will be given to presentational aids, both traditional and computer generated. May be offered online.
SP 218 Interpersonal Communication................................. 4 credits
This course is designed to increase a student’s understanding and use of effective interpersonal communication behaviors in a variety of face-to-face settings. The goal is to better understand oneself, others, and the role of communication in achieving and maintaining satisfying relationships. Knowledge and skill building are used to foster improvement with special attention to verbal and nonverbal communication, self-concept, effective listening, emotions, intimacy, gender/cultural differences, and relationship development. Students learn that stress and conflict management, offered as skills to learn assertive/supportive message-sending, are tools for improving relationships. May be offered online.

SP 219 Small Group Discussion........................................ 4 credits
The purpose of the course is to provide a setting in which students may increase their knowledge about the function and role of small group communication both in and out of the workplace. Students will have the opportunity to participate in a variety of small groups as well as an on-going group that presents a solution to a problem.

SP 220 Communication, Gender and Culture..................... 4 credits
This course is intended for people who are interested in increasing their knowledge and awareness of differences in feminine and masculine communication styles. We will explore how communication, gender, race, and culture interact to influence perceptions and expectations of gender roles. May be offered online.

SP 221 Forensics.............................................................. 1-2 credits
See SP 221, SP 222, SP 223 Forensics (Variable credit) These courses offer training in several novice-level to intermediate speaking events in preparation for participation in intercollegiate speech (forensics) competition. The aim of this activity is to enable students to hone their speaking skills in the two primary forms of individual speaking events—platform speeches and oral interpretation—as well as in debate. These courses allow for flexibility so that individual students will work in their areas of interest and at their own skill levels.

SP 222 Forensics.............................................................. 1-2 credits
See SP 221.

SP 223 Forensics.............................................................. 1-2 credits
See SP 221.

SP 262 Voice and Articulation............................................ 4 credits
This course offers study and practice in the principles of voice production and the articulation of American English speech sounds, with attention to elementary speech physiology and phonetics. Intended to meet the needs of teachers, performers, radio and television speakers, public speakers, speech pathology majors, and English Language Learners, as well as others who want to improve the sound of their speech.

SP 280 Co-op Ed: Speech.................................................. 3-12 credits
Gain work experience that integrates speech theory and practice while developing skills, exploring career options and networking with professionals/employers. Students set learning objectives, keep a learning journal, and are evaluated by their site supervisor. Meet with the speech co-op coordinator the term before (if possible) to set up the internship.

Student Leadership Development

For information, contact the Student Life and Leadership Department, Bldg. 1/ Room 206, 541.463.5337.

CG 101 Native Circles: It's Your Life................................... 3 credits
Is an introduction to resources and the local Native community. With a Native perspective students learn to achieve goals, assess skills and to balance own identity with benefitting from educational or other institutions. The impact of class differences and race on personal success is examined.

PS 280 Co-op Ed: Political Science................................... 2-12 credits
Intern with governmental and political professionals. Works on political campaigns, assist federal/state/local legislators or work with grass roots organizations. Explore potential career options, enhance your academic and career resumes, develop workplace skills and earn academic credit. No prior experience required; a one term commitment is required, but course can be repeated.

SLD 103 Post-Racial America: Challenges and Opportunities.................................................. 4 credits
This course is designed to examine the current state of race relations and discourse on race in America in a “Post Civil Rights Era” environment. The course will examine the societal issues facing African Americans, Latino/Latinas, Native Americans and other underrepresented minority populations.

SLD 111 Chicano/Latino Leadership 1:
Quien Soy? Quienes.......................................................... 2-4 credits
This course will examine the diversity that resides within the Chicano, Mexican, Latino, Hispanic and Caribbean cultural experience in the Americas. The class will provide a framework for understanding the ways in which distinctive social and cultural patterns arose, thus, bringing awareness of contemporary expression and their historical basis. We will explore root causes to explain how the attitudes and behaviors of the Latino community were shaped. We will assess the ability to survive as Raza by fashioning syncretic adaptive strategies to the changing conditions since 1492. A theory of transformation model will be a guiding theme of the class as students will be challenged to create a leadership that will create a leadership that will transform the condition of the Chicano/Latino community.

SLD 112 Chicano/Latino Leadership 2:
Cultural Heroes................................................................. 2-4 credits
This class will explore the concept of cultural heroes within the context of the Chicano/Latino experience. We will identify socio-historic processes that serve to highlight or diminish Chicano/Latino cultural heroes. Students will discuss and create strategies in which to celebrate and honor Chicano/Mexicanio, Latino, Hispanic and Caribbean cultural heroes in school and community events. In addition, this class will explore the contributions and achievements of Chicano/ Latinos in the Americas. We will survey the Chicano/Latino historical presence in the social, economic, political and cultural landscape of the United States and identify socio-historic processes that serve to highlight or diminish Chicano/Latino contributions and achievements in the Americas. The class will provide a framework for understanding the ways in which the class as students will be challenged to create a leadership that will transform the condition of the Chicano/Latino community.

SLD 113 Chicano/Latino Leadership 3:
Affirmation & Resistance................................................. 2-4 credits
This class will examine the impact of La Leyenda Negra (The Black Legend), Manifest Destiny and negative images assigned to Spanish/Mexican and Latino cultural heroes. Students will discuss and create strategies in which to celebrate and honor Chicano/Mexican/Latino, Hispanic and Caribbean cultural heroes in school and community events. In addition, this class will provide a critical examination of Chicano/Latino cultural expressions in the public discourse with a focus on cultural/ethnic celebrations. We will explore the production of Chicano/Latino culture and cultural celebrations (e.g. Cinco de Mayo) via mainstream popular culture and the celebration by and for Chicano/Latinos. A theory of transformation model will be a guiding theme of the class as students will be challenged to create a leadership that will transform the condition of the Chicano/Latino community.

SLD 121 African American Leadership:
History, Philosophy, and Practice.................................... 4 credits
This course is designed to examine the history, philosophy, key leadership strategies and practices of African American leaders. This course focuses on Leadership Theory; Foundations of AA Leadership and AA Leadership in Practice.

SLD 244 Native American Story Telling............................... 4 credits
This course is designed for students to experience the art of teaching and learning in the oral tradition adopted from the Native American traditions of the instructor. Students will be required to learn the socio/cultural context in which some Native American stories are based. Students will gain an understanding of the term "tribal" by doing some research on their own ethnic tribal roots and compare it to the definition presented by the instructor. Rather than learning different tribal stories and discussing them, students will learn the social, cultural and environmental grounds for Native American stories, create their own stories, present them to class and the class will learn them (all done orally), and then discuss the stories.
**Study Skills and College Prep**

Also see Mathematics and Writing

For information about classes with course numbers that begin with:

CG - Contact the Counseling Department, Bldg. 1/Rm. 103, 541.463.5299.

EL and RD - Contact Academic Learning Skills, Center Bldg., Rm. 218, 541.463.5439.

**CG 100 College Success**..................................................1-3 credits

This course emphasizes practice and active learning of skills and strategies that help create greater academic, professional, and personal success. College Success strategies empower students to make wise choices that lead to improved experiences and outcomes in college and beyond. May be offered as a telecourse.

**CG 100A College Success**...............................................1 credit

This course is the first block of the three credit CG100 College Success course. Students will study the following topics: Welcome to College, The First Step, Ideas are Tools, Finding the Time, Looking Ahead, You’ve Got a Great Memory and Muscle Reading. May be offered as a telecourse.

**CG 100B College Success**...............................................1 credit

Prerequisite: CG 100A. This course is the second block of the three credit CG100 College Success course. Students will study the following topics: Math and Science: A 3-D Solution; Researching; Solving a Mystery; Writing well - The First Draft; and Writing Well - The Final Presentation. May be offered as a telecourse.

**CG 100C College Success**...............................................1 credit

Prerequisite: CG 100A and CG 100B. This course is the third block of the three credit CG100 College Success course. Students will study the following topics: Reading Challenges; Taking Notes, Challenges Worth Noting, Preparing for the Test, This is Not a Test, Thinking Creatively and Thinking Critically. May be offered as a telecourse.

**EL 113A Connections: Special Study Skills**.........................1 credit

This course is a content-specific study skills course designed for students reading at a college level who wish to strengthen their study skills and strategies in a specific content area for success in the content area. This course is linked with the content area through a content-area course in which students are co-enrolled. The two courses (EL113A and the content-area course) are either linked with extensive instructor collaboration or team-taught.

**EL 115 Effective Learning**...............................................3 credits

This course is designed for students who wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, and make visual study tools. Coursework requires college-level reading skills.

**EL 115E Effective Learning: ESL**.......................................3 credits

This course is designed for English language learners who wish to strengthen their study and language skills. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, make visual study tools, and communicate effectively. Coursework requires college-level reading skills. For a description of this ALS class in Spanish, see lanec.edu/als/en-espanol.

**EL 115H Effective Learning: Health Science Majors**................3 credits

This course is designed for health occupation majors who wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, and make visual study tools. Coursework requires college-level reading skills.

**EL 115R Effective Learning**...............................................3 credits

This course is designed for students who wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, and make visual study tools. Coursework requires college-level reading skills.

**EL 115V Effective Learning: Veterans**.................................3 credits

This course is designed for students who wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, make visual study tools, and communicate effectively. Coursework requires college-level reading skills.

**RD 080 Preparatory College Reading**.................................6 credits

Prerequisite: CG 100 College Success

This course is designed for English language learners. Students will learn active reading strategies such as finding main idea and supporting details to improve textbook comprehension. Students will develop techniques for enlarging vocabulary and creating study tools. Reading selections from actual first-year textbooks are part of this course. This course is offered as a part of the Guided Studies Program.

**RD 087 Preparatory Academic Reading**...............................3 credits

Prerequisite: Placement test. Students will learn active reading strategies such as finding main idea and supporting details to improve textbook comprehension. In addition, students will develop techniques for enlarging vocabulary and creating study tools. Readings will include both advanced ESL texts as well as authentic readings.

**RD 090 College Reading Skills**........................................3 credits

This is the second in the sequence of reading classes offered by the Academic Learning Skills Department. Students will effectively utilize integrate active reading strategies such as finding main idea and supporting details, note taking, and mapping to comprehend longer college level reading selections. Students will learn how to draw thematic connections between a variety of readings.

**RD 093 College Reading for ELL Students**...........................3 credits

Prerequisite: Placement by reading/test. This is a course for English language learners. Students will learn active reading strategies that will improve comprehension in reading such as reading for main ideas, supporting detail, patterns of organization, and inference. Students will learn basic literacy terminology and how to draw thematic connections between a variety of authentic texts including a novel, short stories, newspaper and journal articles, and/or poetry. In addition, students will learn to conduct basic library research and cite sources correctly. The course is designed so that students will increase their English language proficiency and improve their reading skills.

**Television - See Media Arts**

**Theatre Arts**

For information, contact the Music, Dance and Theatre Arts Department, Bldg. 6/ Rm. 204, 541.463.3108.

**TA 121 Introduction to Costume Design**.............................3 credits

Student will learn basic sewing, costume rendering and execution of a design.

**TA 140 Acting Shakespeare**.............................................4 credits

Students become “Shakespeare-friendly” through lectures and classroom activities. Introductory training includes acting, vocal, and movement training. Coached work on how to bring 400-year-old words alive. (Optional participation in public Term’s End Shakespeare Showcase.)

**TA 141 Acting 1**...............................................................3 credits

Introduces the student to basic acting skills. Class exercises focus on increased self-awareness, observation skills, relaxation techniques, overcoming stage fright, and introduction to character analysis and scene study. No prior experience necessary. This course prepares students for continuing on in the Beginning Acting class sequence.

**TA 142 Acting 2**...............................................................3 credits

Prerequisite: TA 141. Continuation of the Beginning Acting sequence. Students are introduced to monologue audition techniques, in-depth character analysis, and more advanced scene work.

**TA 143 Acting 3**...............................................................3 credits

Prerequisite: TA 142. Continuation of the Beginning Acting sequence. Students continue in-depth character analysis, and apply it to more advanced scene work. This course prepares students for continuing on in the Intermediate Acting class sequence.
TA 144 Improvisational Theatre 1 ........................................... 3 credits
Students learn theater games, scene development, and role-playing. Participants put their creative energy into action, release their inhibitions, expand their imaginations, and sharpen their wits. This class is essential training for actors, and useful for others, too.

TA 145 Improvisational Theatre 2 ........................................... 3 credits
Previous experience required. Students study and practice historical styles, and apply the principles of improvisation to character development and scene analysis as well as to everyday life.

TA 150 Technical Production ............................................... 3 credits
This course provides comprehensive information for students who want to learn the necessary technical functions, aspects and operations of Performing Arts productions. Besides a strong knowledge of scenery and lighting elements of productions, students become familiar with stagecraft, scenic design, lighting, sound, stage management and crew work. This course is recommended for performers, stagehands and future arts producers in Music, Dance and Theatre, who need to know the basics of stagecraft and backstage communications.

TA 153 Theatre Rehearsal and Performance ...................... 1-3 credits
Consent of the instructor. Designed to provide practical application of classroom theory. The course may be repeated for a maximum of nine credits. Should be taken by participants in a theatrical production of this department scheduled for public performance. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

TA 164 Writing for the Theatre 1 ........................................... 3 credits
This first-year course focuses on the essentials of playwriting. Students experience a series of exercises; and listen to, record, and write pieces for live theatre. This class may be taken for a total of not more than three terms. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

TA 227 Stage Makeup ........................................................... 3 credits
Stage Makeup covers the history, purposes, and especially the technique of application of theatrical makeup. Students study the use of makeup in various theatrical media, with emphasis on stage performers.

TA 241 Intermediate Acting ..................................................... 3 credits
Prerequisite: TA 143. This course begins a three-term concentration on the problems of characterization. In preparation for various audition situations, students perform from theatre literature, commercial copy, film scripts, and television shows. This course is highly recommended for those students transferring to schools requiring entrance auditions and for anyone wishing to enter the business now. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

TA 242 Intermediate Acting ..................................................... 3 credits
Prerequisite: TA 241. This course continues the concentration on the problems of characterization, with an emphasis on acting for the camera. Students learn to bring themselves to the role in an intimate way. A preparation for the third term in this series. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

TA 243 Intermediate Acting ..................................................... 3 credits
Prerequisite: TA 242. This course continues the concentration on the problems of characterization, with an emphasis on acting for the camera. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

TA 250 Technical Production 2 ............................................. 3 credits
Prerequisite: TA 150. The course provides advanced training and experience for students who want to learn the necessary functions and operations behind-the-scenes. Besides gaining technical expertise, students learn stage and lighting design, stage management and production crew work. This course is recommended for performers, stagehands and future arts producers in Music, Dance and Theatre, who need to know more advanced skills in stagecraft and backstage communications. 30 hours of lab time outside of class is required.

TA 253 Theatre Rehearsal and Performance ...................... 1-3 credits
Designed to provide practical application of classroom theory and skills. Should be taken by participants in a theatrical production of the Music, Dance, and Theatre Arts Department that is scheduled for public performance. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

TA 264 Writing for the Theatre 2 ............................................. 3 credits
Prerequisite: TA 164. A continuation of Writing for the Theatre 1, this course focuses on the rewriting process of script development, as students continue to work on projects. They learn to reshape events, they participate in readings, and analyze and critique each other’s work. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

TA 280 Co-op Ed: Performing Arts ....................................... 3-12 credits
Co-op offers students on-the-job work experience in a theatre-related site. Students integrate theory and practice gained in the classroom with experience in the professional world. Students develop skills, explore career options and network with professionals and employers while earning credit toward a degree. Please contact performing arts cooperative education coordinator before attempting to register.

Water Conservation
For information, contact the Institute for Sustainable Practices, DCA/406; 541.463.6160.

SUST 101 Introduction to Sustainability ......................... 3 credits
What is sustainability? Students discuss, measure and learn how to implement action. Topics include economic, ecologic and environmental literacy; history; power and privilege; basic needs of food, water and shelter; energy, transportation and development; products, purchasing, waste and recycling; governance. Features guest speakers.

WATR 101 Introduction to Water Resources .................... 3 credits
This course provides a sociological perspective of topics including history and perception; water use; basic hydrology, water stressors at multiple scales; stormwater, wastewater and drinking water; water quality appropriate to use; water supply and demand management as well as emerging issues.

WATR 102 Water Careers Exploration ......................... 4 credits
This course provides an introduction to water conservation and watershed technician fields, examining water issues from personal to global contexts. The class will define water as a critical concern of society at all levels. Students will investigate employment opportunities related to water through readings, documentaries, lectures and guest speakers.
WATR 105 Water Conservation: Residential .............................. 4 credits
This course focuses on strategies to increase water conservation and efficiency at the residential level using proven water conservation strategies. The course covers program development, water use, waste, auditing, efficiency measures and incentives as well as fixtures and appliances. Students participate in hands-on activities.

WATR 107 Water Conservation: Outdoor ................................. 4 credits
This course focuses on conservation at the residential outdoor level including water use & waste; efficiency measures; and landscape issues such as planning and design, irrigation systems, soils, mulch and maintenance. Theoretical work will be enhanced by hands-on outdoor learning.

WATR 202 Fostering Sustainable Practices ........................................... 3 credits
Study and practice communication and collaboration skills that develop effective community programs for sustainability. Learn techniques to overcome barriers that stifle sustainable practices. Practice initiatives at the community level through direct contact with people, and learn how green industry practitioners encourage sustainable practices.

WATR 206A Coop Ed: Water Conservation Seminar 1 ...................... 1 credit
Students will increase their understanding of industry expectations as well as develop job search tools and skills. Students will learn and practice presenting themselves to employers in a competent and professional manner in preparation for a cooperative education internship.

WATR 206B Co-op Ed: Water Conservation Seminar 2 ...................... 1 credit
Prerequisite: WATR 206A This course is a continuation of WATR 206A and further develops students’ understanding of industry expectations as well as job search tools and skills. The emphasis is to provide additional skills that will help students find employment upon earning their degree.

WATR 208 Water Conservation: Agricultural .............................. 4 credits
Course provides an overview of water efficiency in irrigated agriculture. Topics include water use, waste, efficiency, conservation, auditing, measurement, soil moisture monitoring and irrigation, laser leveling and other emerging technologies. The course includes field trips and hands-on experiences.

WATR 210 Water Conservation: Industrial / Commercial ..................... 4 credits
Course focuses on retrofitting to increase wise water use. Emphasis of the class will be water use, waste, efficiency and auditing for Commercial, Industrial and Institutional (CII) sites. Topics include metering, sanitation, process water use, and heating and cooling systems. Concept of Industrial Ecology introduced.

WATR 215 Integrated Water Management ...................................... 4 credits
Prerequisite: SUST 101 and WATR 101 This class examines a wide range of water uses and water issues in multiple settings and at various scales using global, regional and local case studies. Emphasis will be on the interaction between various resource uses and the effects of conservation measures.

WATR 220 Water Conservation: Program Development ..................... 4 credits
This capstone course explores the design, implementation, maintenance and evaluation of water efficiency plans and programs. Emphasis is on creating formal water conservation plans. Students learn how to make the business case for efficiency and how wise water use supports sustainability.

WATR 221 Water Mechanical Systems ......................................... 4 credits
Prerequisite: WATR 210. Course provides an overview of mechanical systems that use or re-circulate water in residential, commercial and industrial settings. Topics include: efficient use of water and energy, appropriate technology theories and practices, rules and regulations, systems analysis techniques and emerging technologies.

WATR 222 Stormwater Best Management Practices ......................... 4 credits
Students gain a working knowledge of best management practices for stormwater management. We will explore non-mechanical treatments from constructed wetlands to swales to green roofs. Topics will include site analysis, flow management, and phyto-remediation. Labs include field trips, field work and guest lecturers.

WATR 261 Regional Water Policy .............................................. 3 credits
Explores policy, regulation, rights and law pertaining to the Pacific Northwest bioregion. Additional topics include national and international code trends, case studies illustrating conflict management techniques and the role of economic incentives in encouraging efficient resource use.

WATR 280 Co-op Ed: Water Conservation Technician .......................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of Water Conservation. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.
Balancing Academics and Mental Health

In this internship course, students gain watershed science-related work experience in businesses, government, non-profits and NGOs. Integrate classroom theory with practical experience in the professional world. Develop skills, explore career options and network with professionals and employers while earning college credit.

Web - See Business and Computers: Introduction/Information Systems/Computer Science

Welding - See Fabrication and Welding

Women in Transition

For information, contact the Women’s Program, Bldg.1/Rm. 202, 541.463.5353.

BT 030 Computer ABCs for Women in Transition

This credit class is intended to reach Spanish speaking women and Spanish speaking youth who are preparing to study at Lane Community College or simply for their learning. Cualquier estudiante que es mujer y habla espaiol puede tomar esta clase. La clase se da en Espaiol. La clase se enfoca en entender el sistema de Lane Community College, aspectos familiares/culturales, formando un ambiente que promueva el estudio, manejar el tiempo, estudiar, encontrar dinero para estudiar, y conocer los recursos que apoyan a los estudiantes.

College Success For Spanish Speaking Women

This class is designed for students enrolled in the Women in Transition Program in identifying, exploring and implementing vital self-management skills crucial to creating and maintaining success in college and life. Students will utilize a variety of experiential, personalized tools as they learn how to apply concepts of self-management to developing and achieving academic and personal goals.

CG 220 College Success: WIT

This course is designed to help students enrolled in the Women in Transition program plan their careers and their lives. Topics will include: Self-awareness (exploring and identifying values, interests, skills and personality styles); Career Exploration (available careers, careers that fit personal wants and needs, steps to pursuing career goals); and Decision Making (how to make decisions, weigh options, and set goals). Note: CG 210T is a Career and Life Planning class with an emphasis on issues for women in transition, there are also general Career and Life Planning courses offered by Counseling with overload content. Students may receive credit for either CG140 or CG140T.

CG 207 Life Transitions 2

This course is the next sequence in the Women in Transition program. It is designed to assist students in enhancing their ability to navigate life changes in powerful and positive ways, building on the skills and knowledge gained in the first Life Transitions course. Topics include: Responding successfully to changing personal and professional demands; strengthening resiliency and self-esteem; establishing and maintaining healthy relationships; and setting, enacting and attaining personal, academic and career goals. Class activities will stress practical and personal application of course information. Successful completion of the first Life Transitions course is required.

CG 220 Life Transitions: Women in Transition

This course is designed to help students enrolled in the Women in Transition program navigate their current life transitions and explore positive new life directions. Topics include: life transitions; understanding change, endings, losses and new beginnings; relationships; (patterns, identifying productive and damaging interactions, learning new skills); and Decision Making (available careers, careers that fit personal wants and needs, steps to pursuing career goals); and Decision Making (how to make decisions, weigh options, and set goals). Students will review whole number skills and learn to extend their understanding of basic math operations, averages, and the solving of one-step equations. This course begins with a review of whole number, fraction, and decimal arithmetic that includes rounding, estimation, order of operations, averages, and the solving of one-step equations. Effective math study strategies and math anxiety issues will be discussed to increase students’ confidence in their abilities to succeed in math and to use math in daily life. MTH 010T is intended for students who need to strengthen their basic math skills before moving on to MTH 020.

MTH 010T Whole Numbers, Fractions, and Decimals: WIT

This course is designed for students who are in the Women in Transition program and wish to strengthen their study skills and strategies. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read and study from textbooks, manage time effectively, use the library, and make visual study tools. Coursework requires college level reading skills.

MTH 010T College Success: Women & Money

This course is designed to help students enrolled in the Women in Transition program plan their careers and their lives. Topics will include: Self-awareness (exploring and identifying values, interests, skills and personality styles); Career Exploration (available careers, careers that fit personal wants and needs, steps to pursuing career goals); and Decision Making (how to make decisions, weigh options, and set goals). Note: CG 210T is a Career and Life Planning class with an emphasis on issues for women in transition, there are also general Career and Life Planning courses offered by Counseling with overload content. Students may receive credit for either CG140 or CG140T.

Watershed Science - Women in Transition

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COURSE DESCRIPTIONS

WST 234 Watershed Best Practices

Capstone experience applying sustainable approaches to watershed restoration and management to improve and maintain water integrity. Students combine watershed field skills and conceptual knowledge with emphasis on integrated, multidisciplinary methods and best practices.

WST 280 Co-op Ed: Watershed Science Technician

In this internship course, students gain watershed science-related work experience in businesses, government, non-profits and NGOs. Integrate classroom theory with practical experience in the professional world. Develop skills, explore career options and network with professionals and employers while earning college credit.
applications for technical careers will be incorporated for students in professional technical programs. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanec.edu/math. This course is available in a self-paced format (see heading Mathematics: Self-paced format).

PE 183U Strength Training for Women........................................1 credit
Learn safe and correct techniques with free weights, machines, bands, stability balls and more, to tone and strengthen major muscles. Instruction in basic anatomy, terminology, nutrition, and exercise principles associated with resistance training. Open to women of all ages and experience levels.

WR 115 Introduction to College Writing..................................4 credits
Prerequisite: Appropriate scores on Lane's Writing Placement Test or a passing grade (C- or better) in WR 093, WR 095, WR 97 or equivalent. WR 115 emphasizes the writing process of pre-drafting, composing, revising, and editing to help students express ideas clearly in logical and meaningful essays. WR 115 also helps students develop analytical skills so that they can become better critical thinkers, readers, and writers. Assignments and class discussions affirm the relevance of writing skills to students' academic, occupational, public, and/or personal lives. Because this course serves as an introduction to college writing, skills essential for success in WR 121 will be introduced in WR 115. The course also fulfills writing requirements for some Lane programs.

WR 121 Introduction to Academic Writing...............................4 credits
Prerequisite: Appropriate scores on Lane’s Writing Placement Test or a passing grade (C- or better) in WR 115. This fundamental course for all writing students introduces students to the conventions of academic writing. It emphasizes defining and developing a significant topic and using principles of clear thinking to support an assertive or argumentative thesis. Students will gain an understanding of their subject matter, audience, purpose, and point-of-view, and demonstrate that understanding through the organization and development of their essays. Students will learn how to analyze and evaluate other writers’ work to sharpen their critical abilities as readers and writers. The course also introduces students to skills in source analysis, documentation, and beginning research methods. May be offered online.

SOC 108A Selected Topics in Women's Studies, Women's Bodies, Women's Selves.................................................................3 credits
Throughout history, cultural views and practices regarding women's bodies have fundamentally affected women's experiences, position, and relative power in society. This class focuses on the embodied experiences of women, in what ways these experiences are socially constructed, and women's accommodation and resistance to those cultural constraints. Major areas of focus will include women's health, reproduction, sexuality, gendered violence, and body image, and will include cross-cultural information.

SOC 207 Women and Work....................................................3 credits
Women perform nearly two-thirds of the world’s work, receive one-tenth of the world’s income, and own less than one-hundredth of the world’s property. This class is an introduction to and analysis of the issues necessary to understand women's work experience and economic position, past and present. Focus areas will include the multicultural economic and labor history of women in the US, the family and women’s work, welfare/workfare issues, and women’s position in the global economy.

WS 101 Introduction to Women's Studies.................................4 credits
Introductory course to the interdisciplinary field of Women's Studies, to feminism, and to the issues raised by a focus on the lives of women. Special attention will be given to the areas of work,
family, sexuality, body image, gender socialization, violence against women, social and economic relations, and theories about women’s oppression, authority, and power. Class discussion is central in relating readings and lectures to students’ everyday lives. Participation in a weekly discussion group is required.

**Writing**

For information about classes with course numbers that begin with:

ENG and WR 080-095 - Contact Academic Learning Skills, Center Bldg./Rm. 218, 541.463.5439.

WR 115-245 - Contact the Language, Literature and Communication Division, Center Bldg./Rm. 457, 541.463.5419.

**ENG 116 College Vocabulary** - 3 credits

Students will acquire vocabulary that will increase their speaking, listening, reading, and writing vocabularies. Students will study the history of the English language, affixes and roots, pronunciation, dictionary and thesaurus use (print and online), and techniques for vocabulary acquisition and enrichment. Instruction will move at a faster pace, introduce more material, and deal with vocabulary at a higher level than Preparatory Vocabulary.

**SKD 085 Preparatory Vocabulary** - 3 credits

Students will acquire vocabulary skills that will increase their speaking, listening, reading, and writing vocabularies. Students will study word parts (prefix, root, suffix), dictionary use (print and online), and techniques for vocabulary acquisition and enrichment.

**WR 080 English Grammar and Sentence Writing** - 6 credits

Prerequisite: Placement by the LCC reading/writing test or instructor consent, or a grade of C- or better in RD080 or RD087. Students will learn about parts of speech, subject/verb agreement, pronoun/antecedent agreement, and basic sentence patterns. Also, students will study sentence structure, standard punctuation, and rules of capitalization. Students will develop their ability to write standard English sentences that will demonstrate their mastery of these concepts. May be offered online.

**WR 089 Academic Writing for ELL Students** - 4 credits

Prerequisite: Placement by the LCC reading/writing test or department consent required. Corequisite: RD 089 This is a course for English language learners. Students will develop sentence, paragraph, and essay writing skills. They will also work on summary writing and personal reaction writing. Students will develop a clearly focused essay with adequate support using sentences without major grammatical error (verb tense, subject-verb agreement, etc.). Course activities may be enhanced through an extended workshop setting, an online module, or a service-learning component. Students will submit papers using word processing software.

**WR 090 Paragraph Writing** - 3 credits

Prerequisite: A passing grade in WR080 or WR085B or WR089, or placement by the LCC reading/writing test, or recommendation of instructor. WR090 is the second in a three-course sequence that prepares students for transfer-level composition courses. Students will learn a process for writing and revising basic expository paragraphs. In addition, students will practice paragraph structures, development of ideas in a paragraph, and sentence improvement. Students will submit final drafts typed and printed from a computer.

**WR 093 College Writing for ELL Students** - 4 credits

Prerequisite: A passing grade in WR 089 or WR 090, or placement by the LCC reading/writing test, or recommendation of instructor. English language learners will develop more competence in writing. Students will learn skills in paragraph and essay writing with an emphasis on development and organization techniques. Students will also learn advanced grammatical concepts and produce essays that reflect that knowledge. Students will demonstrate control and understanding of the writing process: generate and organize ideas, write drafts, revise and edit multi-paragraph essays. Students will also use critical reading skills to analyze essays and improve their own writing. Students will submit papers using word processing software.

**WR 095 College Writing Fundamentals** - 4 credits

Prerequisite: A passing grade in WR 089 or WR 090, or placement by the LCC reading/writing test, or recommendation of instructor. WR095 serves as preparation for WR115. Students will demonstrate control and understanding of the writing process: generate and organize ideas, write drafts, revise and edit paragraphs and multi-paragraph essays. Students will also use critical reading skills to analyze essays and improve their own writing. Students will produce writing that reflects knowledge of advanced grammar skills. Students will submit final drafts typed and printed from a computer. Course activities may be enhanced through an extended workshop setting, an online module, or a service learning component.

**WR 105 Writing for Scholarships** - 2 credits

Prerequisite: WR 115 or placement test. “Writing for Scholarships” functions as a support system, one that encourages students to develop their ideas and writing skills beyond the classroom microcosm. Students will learn how to present their ideas in the form of effective scholarship essays. Students will include these essays in an application to Oregon Student Assistance Commission. The course will emphasize the following skills: Descriptive writing, organizational strategies, audience engagement, and revision. We will look at winning scholarship essays from former students so as to define what “works” and employ these working techniques in current assignments. NOTE: This two-credit writing course will not count toward a WR 115/115W, 121, 122, 123 or 227 writing course.

**WR 115 Introduction to College Writing** - 4 credits

Prerequisite: Appropriate scores on Lane’s Writing Placement Test or a passing grade (C- or better) in WR 093, WR 095, WR 97 or equivalent. WR 115 emphasizes the writing process of pre-drafting, composing, revising, and editing to help students express ideas clearly in logical and meaningful essays. WR 115 also helps students develop analytical skills so that they can become better critical thinkers, readers, and writers. Assignments and class discussions affirm the relevance of writing skills to students academic, occupational, public, and personal lives. Because this course serves as an introduction to college writing, skills essential for success in WR 121 will be introduced in WR 115. The course also fulfills writing requirements for some Lane programs. NOTE: This three-credit writing course will not count as a prerequisite for WR 121.

**WR 115W Introduction to College Writing: Workplace Emphasis** - 3 credits

Prerequisite: Appropriate scores on Lane’s Writing Placement Test or a passing grade (C- or better) in WR 093, WR 095, WR 97, or equivalent. This course provides students with a forum for exploring, evaluating, and creating various forms and styles of spoken and written English. WR 115W emphasizes frequent writing, revision, and editing to help students learn to express ideas clearly in logically organized essays, letters, and reports by drawing on critical analytical and thinking skills. WR 115W fulfills writing requirements for some Lane programs. NOTE: This three-credit writing course will not count as a prerequisite for WR 121.

**WR 121 Introduction to Academic Writing** - 4 credits

Prerequisite: Appropriate scores on Lane’s Writing Placement Test or a passing grade (C- or better) in WR 115. This fundamental course for all writing students introduces students to the conventions of academic writing. It emphasizes defining and developing a significant topic and using principles of clear thinking to support an assertive or argumentative thesis. Students will gain an understanding of their subject matter, audience, purpose, and point-of-view, and demonstrate that understanding through the organization and development of their essays. Students will learn how to analyze and evaluate other writers’ work to sharpen their critical abilities as readers and writers. The course also introduces students to skills in source analysis, documentation, and beginning research methods. May be offered online.

**WR 122 Composition: Argument, Style and Research** - 4 credits

Prerequisite: A passing grade (C- or better) in WR 121, or a passing score on the English Department’s Waiver exam. WR 122 introduces the concerns of WR 121-English Composition: Introduction to Academic Writing WR 122-Argument, Style, and Research focuses on persuasion and argument supported by external research, including the processes of finding and evaluating sources, analyzing, documenting, and integrating source material into the student’s own text. Both subjects—argument and research—will be presented in the context of critical reading and the writing. May be offered online.

**WR 122 H Composition: Argument, Style and Research-Honors** - 4 credits

Prerequisite: A passing grade (C- or better) in WR 121 or a passing score on the English Department’s Waiver exam. This is a honors section open to any student prepared to complete honors-level coursework. These exciting honors classes delve deeper into course topics and require a high level of student motivation; the pace may be faster than non-honors courses. See lanec.edu/honors for
information. While continuing the concerns of WR 121-English Composition: Introduction to Academic Writing WR 122-Argument, Style, and Research focuses on persuasion and argument supported by external research, including the processes of finding and evaluating sources, citing, documenting, and integrating source material into the student’s own text. Both subjects—argument and research—are presented in the context of critical reading and the writing.

WR 123 Composition: Research .............................................. 4 credits
Prerequisite: A passing grade (C- or better) in WR 122. While continuing the goals of WR 122, this course emphasizes skills needed to complete a quarter-long research project. Students will write a research essay that supports an analytical and/or assertive thesis. WR 123 also emphasizes the critical reading and writing skills involved in defining and researching a genuine problem of inquiry, as distinct from encyclopedic reporting. May be offered online.

WR 227 Technical Writing ........................................................ 4 credits
Prerequisite: A passing grade (C- or better) in WR 121 or a passing score on the English Department’s waiver exam. Recommended: A passing grade (C- of better) in WR 122. This transfer course emphasizes forms of writing demanded in the workplace rather than academic essays. While addressing issues like evaluation of materials and audiences, sources of information, organization and design, and visual aids, the writings include letters, informal reports, descriptions, instructions, and proposals. May be offered online.

WR 240 Creative Nonfiction .................................................... 4 credits
Prerequisite: A passing grade (C- or better) in WR 121 or a passing score on the English Department’s waiver exam or waived based on instructor’s evaluation of student writing. This course is designed to introduce students to the genre of Creative Nonfiction, in which they will learn the conventions and techniques of the genre through guided creative writing projects. Students will learn how to implement narrative, backstory, pacing, and characterization by reading the work of other students and published authors, whose work will serve as models for the students. The readings will include the various modes of the genre, such as autobiography/memoir, personal essay, nature and/or science writing, and literary journalism. Students will produce, workshop, and present their own works of creative nonfiction in class.

WR 241 Introduction to Imaginative Writing: Fiction .............. 4 credits
Prerequisite: A passing grade (C- or better) in WR 121, or a passing score on the English Department’s waiver exam, or waived based on instructor’s evaluation of student writing. WR 241 is an introduction to the principles and practice of writing, editing, and publishing short fiction. Elements covered include character, conflict, plot, point of view, setting, theme, dialog, and tone. Stories by well-known authors are read and discussed as models. Students generally write two to three stories in addition to completing other exercises, peer responses, and a journal. Workshop discussions are often used along with instructor feedback to guide revision and editing of student work.

WR 242 Introduction to Imaginative Writing: Poetry ............. 4 credits
Prerequisite: A passing grade (C- or better) in WR 121, or a passing score on the English Department’s waiver exam, or waived based on instructor’s evaluation of student writing. WR 243 is a course in writing poetry. The goals of the course are to help students: 1) learn the elements of poetry; 2) read poems by well-known poets; 3) develop ability in writing poems; 4) read and write poems effectively; 5) receive constructive criticism of their writing; 6) learn to be balanced and confident in their critical evaluations of their peers; and 7) gain a better understanding of themselves and others as writers.

WR 280 Co-op Ed: English/Writing ....................................... 3-12 credits
This internship course is for students with excellent writing skills who might want to work as a writer or in an occupation that requires writing. Gain work experience while polishing writing skills, explore career options and network with professionals/employers. Meet with the co-op coordinator the term before (if possible) to set up the internship.

Zoology - See Biology
Many of the college's academic and student services are available to all students. Examples include Career and Employment Services, Counseling, Disability Resources, and the Multicultural Center. For complete information about these resources see pages 21 through 32.

**Registration, Costs and Payment Methods** To learn about registration, costs and payment methods for these training opportunities, consult the current class schedule or call the program of interest. For information about credit and refund policies, see pages 19-20 of this catalog.

**Continuing Education**

Continuing Education (CE) offers hundreds of noncredit courses each term in career and technical (vocational) training, employment training, computers, consumer/money, art, music, foreign language, home/house/garden, health and health occupations, human development, recreation, outdoor programs, and general interest areas.

CE also offers short-term training and upgrading for a wide range of professional fields. In some cases, students can earn continuing education units, industry certification, or meet state and/or national professional examination preparation requirements. Current noncredit technical trainings available through CE are described in this catalog, Community Education Class Schedule and the quarterly web class schedule.

Enrollment in most courses is open to any interested person over 16 years of age. A few courses have prerequisites. A list of course offerings and registration information is included in Community Education Class Schedule, mailed each quarter to area residents. Community Education Class Schedule also is available on the main campus, at the Downtown Campus, at all outreach centers, and at lanecc.edu.

Tuition and fees for noncredit classes are published in Community Education Class Schedule and on the web class schedule.

Instructors have expertise in the subjects they teach. People interested in teaching a CE course may contact a coordinator at the CE office at the Downtown Campus or call 541.463.6100.

**Continuing Education Career Training**

**Computer Training** From mastery of individual software programs to specialist certifications, the college offers a broad range of computer learning opportunities. Offerings include skill building in Windows operating systems, presentation, word-processing, and desktop design software, including AutoCAD, web programming, and database creation and application. Many computer trainings are available online.

**Fashion Design** This course of study consists of 190 hours of instruction which includes core classes and elective classes. This course trains individuals for entry level positions in fashion design. For more information, visit lanecc.edu/ce.

**Floristry** This course of study is designed to give students comprehensive information of floral industry design, management, and retail skills and behind the scenes information. The floristry course consists of 102 hours of required classes and 24 hours of elective classes. Students gain valuable hands-on experience making basic, event and seasonal floral arrangements. Students take home practice arrangements after each class. Upon successful completion of the course, students are awarded a certificate of completion.

**Jewelry Making and Marketing** This course of study consists of 150 hours of core classes and 50 hours of elective classes spread over four terms. Upon completion of this course of study, students will have a comprehensive knowledge of the jewelry industry. For more information, visit lanecc.edu/ce.

**Massage Therapist Program** This program is designed to prepare students to sit for the Oregon State Board of Massage Therapists Certification Exams and has been approved by the Oregon Board of Massage Therapists. The program also provides hours toward continuing education for LMTs. Students must successfully complete required courses of anatomy and physiology, kinesiology and pathology, applied massage, communication and ethics, professional practices, labs, and clinical. Contact hours and program content are subject to change. For current information, visit lanecc.edu/ce.

**Nursing Assistant** This training provides 150 hours of instruction in basic nursing procedures. It includes theory and clinical hours. Upon successful completion, students may sit for the Oregon State Board of Nursing (OSBN) certification exam. A current CPR card is required before applying for the certification exam. The program is OSBN approved. For more information, visit lanecc.edu/ce.

**Phlebotomy** Upon completion of two courses, Phlebotomy I and Phlebotomy II, and one year of work experience, students are eligible to sit for the ASCP national Phlebotomy Technician Certification exam. This program is offered two times per year. The first session begins fall term, and the second session begins spring term. For more information, visit lanecc.edu/ce.
English as a Second Language

English as a Second Language (ESL) Department provides English language instruction for English language learners who need to improve their English skills for work, community, academic, or personal goals. Courses are designed to help students with everyday communication as well as with transitions to work or to other training and academic programs, including credit and noncredit programs in community colleges or universities.

This noncredit program enrolls students from more than 40 different nations, and students from Asian, Latino, European, and Middle Eastern cultures. All classes are culturally mixed, and all instruction is conducted exclusively in English.

Registration Day classes are offered at the Main Campus (MC), 4000 East 30th Avenue. Call 541.463.5253 for more information or visit the office in Building 11, Room 201. MC office hours are 8 a.m.-5 p.m. Monday-Thursday and Friday 8:30-4:30 p.m. Evening classes are located at the Downtown Campus (DCA), 101 W. 10th Ave., Room 203. Call 541.463.6190 or stop by ESL DCA office on Monday and Wednesday between 4-7 p.m.

New and returning students must make an appointment to take an English placement test. Placement tests are available at scheduled times in both the day and evening. There is no minimum skill level for entry to classes.

ESL Classes Instruction includes seven levels of classes in integrated skills (listening, speaking, reading and writing) and supplemental classes, such as TOEFL Preparation.

Volunteer ESL Tutors Enrolled students can be matched with volunteer tutors. Community members may contact Amy Gaudia, 541.463.6184 to learn more about becoming a volunteer tutor.

International ESL Students (IESL) International students whose TOEFL score is lower than 475 PBT or 53 iBT may be issued an I-20 to obtain a student visa to attend ESL classes. International students are integrated into ESL classes and pay an international class fee comparable to international student tuition in the credit program.

International ESL application deadlines are August 1, December 1, March 1, and June 1. Students are required to attend international orientation prior to the beginning of the term. Questions concerning International Student Admissions should be directed to Jane Marshall, International Admission Coordinator, Lane Community College, 4000 East 30th Avenue, Eugene, OR 97405; telephone: 541.463.3404; lanecc.edu/international. International students on student visas must enroll for a minimum of 18 hours of class per week. Other students in the U.S. on nonimmigrant visas may enroll in ESL classes for a fee on a space available basis.

Inglés como Segundo Idioma

El programa de Inglés como Segundo Idioma provee instrucción a personas cuya primera lengua es otra que inglés y que necesitan mejorar su inglés para lograr sus metas personales, académicas, laborales, y comunitarias. Las clases han sido creadas con el propósito de facilitar la comunicación diaria, además de ayudar a los estudiantes a crecer laboralmente o a entrar en otros estudios y programas académicos, incluyendo programas con o sin valor curricular en Lane Community College (colegio comunitario) y en otras universidades.

Este programa sin valor curricular admite estudiantes de más de 40 diferentes naciones, incluyendo Asiáticos, Latinos, Europeos y del Medio Oriente. Todas las clases son culturalmente combinadas y toda la instrucción es exclusivamente en inglés.

Inscripción Llame al 541.463.5253 para clases matutinas en el Main Campus o al 541.463.6190 para clases vespertinas en el Downtown Campus. También puede visitar una de nuestras oficinas: Salón 201 del Edificio 11, ubicada en la dirección 4000 E. 30th Ave y en 101 W. 10th Ave., Room 203.

Los estudiantes que quieren iniciar clases por primera vez, o los que están regresando a clases después de un tiempo de ausencia, deben hacer una cita para tomar un examen de inglés para colocarse en un nivel. Las citas para los exámenes de colocación están disponibles en horas predeterminadas por la mañana y la tarde. No hay ningún requisito mínimo de conocimiento de inglés para entrar al programa.

Clases de ESL El Programa de Inglés como Segundo Idioma (ESL) proporciona instrucción sólo en inglés y consta de siete diferentes niveles incluyendo clases de lectura y escritura, comprensión auditiva y conversación, y algunas clases suplementales como preparación para el examen de TOEFL.

Tutores Voluntarios Los estudiantes inscritos tiene la oportunidad que se les asigne un tutor voluntario. Los miembros de la comunidad pueden contactar a Amy Gaudia al 541.463.3919 para saber más acerca del entrenamiento de tutores voluntarios.
Adult Basic and Secondary Education

Lack of basic skills is often a barrier to getting or keeping a job. The ability to read, write and compute at the 9th grade level is now the minimum required for entry-level employment. Higher paying jobs and employment in the 21st century will require higher level basic skills plus new skills such as computer literacy, problem solving, teamwork, and learning to learn.

Admission Requirements All students must be 18 years of age or older, or have a release-referral from the local public school district if 16 or 17 years of age, or have Lane Community College homeschool release and verification of current homeschool registration from ESD. (This applies to in-school and out-of-school youth. The decision to release a student is made by local school district officials in accordance with Oregon Revised Statutes and local school district policy).

Admission Procedures Class locations, orientation and registration information are available in the quarterly class schedule or on the department website at lanecc.edu/abse. For more information, call 541.463.5214.

Many of the college’s academic and student services are available to all students. Examples include Career and Employment Services, Counseling, Disability Resources, and the Multicultural Center. For complete information about these resources see pages 21 through 32.

Registration, Costs and Payment Methods To learn about registration, costs and payment methods for Adult Basic and Secondary Education, consult the current class schedule or call 541.463.5214.

Adult Skill Development

Adult Skill Development offers a variety of pre-college level alternatives for adults who need to brush up on basic reading, writing, or math skills for work, college entrance or passing the GED exam. Class times are offered during the day and evening in many locations in Lane County. All new students must attend an orientation session.

General Education Development (GED)

Lane Community College offers classes to prepare teens and adults to take the GED exam. Preparation is offered in all five test areas: social studies, science, reading, writing, and math. The structure of classes differs from location to location and offers a combination of small group instruction, individual attention and practice testing.

The official GED tests can be taken in Testing Services on main campus.

Core College Connection

Lane’s Adult Basic and Secondary Education (ABSE) department provides tuition-free core college classes that will help you:

- Prepare for or improve score on Lane Community College placement tests.
- Develop reading comprehension skills and strategies
- Renew or increase math skills
- Develop writing and grammar skills

Adult Basic Skills Development

Moving Toward Employment (MTE): Specialized Math, Reading, Writing, and Current Events/Technology

The Basic Skills Program offers structured courses that provide specialized instruction and support for students with multiple learning styles including students with disabilities. Courses focus on improving basic academic skills including Reading, Writing and Math. Basic Math: Story Problems and Current Events. Students must meet eligibility criteria to enroll. New student orientation is held the first week of each term at the Downtown Campus. Contact the program for additional information.

Registration Students or referring agency should call 541.463.5945, Monday through Friday, 8 a.m. to 5 p.m. for more information on the admission process.

Community Services

Center for Meeting and Learning

Now offering two event locations and catering delivered to you! Center at Main Campus offers 35,000 square feet of event space serving groups up to 600. The newly built LEED Platinum Center at Downtown Campus offers over 4,000 square feet of event space for groups up to 300. The Center offers full service catering with a focus on local and seasonal selections, in-house or delivered to you. The Center serves campus, community and regional events of all types. Culinary Arts and Hospitality Management students have the opportunity to work side by side with the Center’s professional staff in a learning lab environment. Event dollars invested at the Center help support education in our community. Call 541.463.3500 to schedule your events and book your catering, or visit lanecc.edu/center.

Community Center for Family Counseling

Counseling and Continuing Education at Lane sponsor the Community Center for Family Counseling, informally known as Saturday Circus. Call 541.463.5234.

Both credit (CG 211) and noncredit learners (at no charge) can attend parent education/child guidance sessions at the Saturday Circus, 9 a.m. - noon, Saturdays (Thursdays or Fridays in the summer) at Lane’s Downtown Campus. Participants can view family counseling sessions that illustrate principles and skills for improving relationships with children and participate in exercises and discussion. An advanced class (CG 212 for credit and noncredit learners at no charge) helps participants refine implementation of principles and skills. Childcare for children age three (and out of diapers) through elementary school age is available upon arrangement. Outgrowths of the Saturday Circus are noted below.
• Each term the Improving Parent-Child Relationships telecourse (CG 213) combines real-life, in-home interactions between parents and children with segments of interviews in which a counselor discusses with parents the application for principles and skills for improving relationships. Telesessions are cablecast as well as available at the main campus Library and outreach centers.
• An understanding anger class (CG 214) provides a goal-directed approach for improving self-management and effectiveness in responding to others who express anger.
• In collaboration with the Oregon Society of Individual Psychology, the Saturday Circus offers an Annual Conference on Families. Learners can participate through Continuing Education or as credit students (CG 299).

English As A Second Language See page 274.

KLCC-FM Radio klcc.org
KLCC 89.7 FM a listener-supported public radio station licensed to Lane Community College provides NPR news, local and regional news, and a wide world of intelligent music to over 88,000 people in the Eugene/Springfield area and western and central Oregon. Musical genres include jazz, folk, blues, and world beat. KLCC consistently ranks among the top five public stations in the country for market impact.

Broadcasting 24 hours a day with 81,000-watts of power, KLCC is operated by a professional staff and volunteers from the community. It is funded by the Corporation for Public Broadcasting, Lane Community College, the business community, and the listening audience. KLCC is a charter member of National Public Radio.

Family Connections
Family Connections is a community-based child care resource. For more information, see page 22.

Library
The Library provides resources for students, faculty, staff, and community residents. For more information, see page 26.

Music, Dance and Theatre Arts
The department presents concerts and performances available to the community. For information, see page 27.

Specialized Support Services
Specialized Support Services (S3) provides employment training and education to adult students with intensive support needs. S3 operates as a cooperative venture between the college, Lane County office of Developmental Disabilities, Full Access Brokerage, Mentor Oregon Brokerage, and the State of Oregon Division of Human Services. S3 offers individual and small group instruction that addresses social skill development, on-the-job training, work crew skills in socially integrated settings, and competitive employment placement.

As a means of providing vocational training and actual work experience for its students, S3 contracts to provide services to various public and private organizations. Services include confidential shredding, collating and assembling publications, paper recycling, bulk mailings, packaging, small parts assembly, and employee placement with on-the-job training and follow-along support in the employers’ workplace. Additional services include janitorial, laundry work, and kitchen crews. S3 has a central office on main campus and other job sites in the community. For information, call 541.463.5101.

Successful Aging Institute
The Successful Aging Institute (SAI) provides lifelong learning opportunities for adults of all ages, with special emphasis on classes for mature adults and those who nurture their success. Explore new careers, including those related to work with older adults; cultivate skills for the third age of life; and enjoy stimulating interactive courses in a variety of disciplines. SAI offers courses that promote health, wellness, intellectual growth, and information about the issues relevant to successful aging. Tailored training for professional caregivers and senior-related businesses is also available. Contact SAI with ideas of classes you would like to take and/or teach. At Lane, your quest for learning never ends. For information, call 541.463.6262 or visit lanecc.edu/sai.

The Senior Companion Program
The Senior Companion Program is sponsored nationally by the federal Corporation for National & Community Service and locally by Lane Community College. Senior Companions help frail seniors and adults living with disabilities overcome loneliness and retain their independence through 1:1 friendly visits, and assistance with simple chores and transportation. Working in collaboration with 30+ agencies throughout Lane County, Companions provide more than 60,000 hours of service to 400+ clients annually. Companions must be age 55+, have a limited income, and serve clients 15-40 hours/week. They receive a tax-free hourly stipend of $2.65 and comprehensive ongoing training. Those interested in becoming Companions are invited to apply, pass a criminal background check, and participate in a week-long pre-service training. For more information, call 541.463.6260 or visit lanecc.edu/scp. (The Senior Companion Program does not link Companions with clients directly. Please contact Senior & Disabled Services at 541.682.4038 if you would like to receive the services of a Senior Companion.)
Small Business Development Center
The Small Business Development Center (SBDC) provides excellent entrepreneurial education for all phases of business development, from starting a business to growing an existing business. The Center, founded in 1982, is a member of the Oregon Small Business Development Center Network and is actively involved in economic development in Lane County. Thanks to grant funds and support from the college, resource referrals and advising is available at no-cost to the participant.

The SBDC is located at LCC’s new Downtown Campus Building, 101 West 10th Avenue, Ste. 304, Eugene. Business hours are 8:30 am to 5 pm, Monday-Friday. Phone number is 541.463.6200. Website is LaneSBDC.com.

Business/Entrepreneurial Services
- **Personalized and confidential no-cost business advising** Experienced advisors focus on essential business skills, including startup planning, marketing, professional networking and critical decision making. (Advising is available by appointment only.)
- **Entrepreneurial classes, workshops, and business management programs** Business professionals teach and develop practical skills, in class and workshop settings, with opportunities to network with peers and use the information learned immediately.
- **Resource library, housed in the Lane SBDC** An extensive business library offers a vast array of books and other resources, with helpful information for building business knowledge and skills. The SBDC also offers help with accessing the Lane Business Link website, a repository for resources throughout our city, county, and state.

Business Classes and Workshops

Business Start-up and Early Stages
The SBDC offers a variety of classes and workshops for the early stages of business; from start-up, to marketing, record keeping, taxes, and more. The Center partners with local experts and other service providers to offer topics of interest to business owners.

First Steps in Business
Starting a business takes creativity, drive, energy, money, and lots of hard work; but can have huge rewards. Find out what components make up a successful business, in this three-hour workshop. Participants have the opportunity to discuss ideas and rate entrepreneurial skills. For those who decide to continue, the “Going Into Business: Next Steps” class expands the planning process.

Going Into Business: Next Steps (GIB)
GIB is an in-depth business development class, (in ten 2-1/2 hour sessions), for individuals who have decided to take the entrepreneurial plunge. This class gives all the tools needed to create a sound foundation. Decide on the structure and financial setup, record keeping, taxes, planning, marketing, and more. Guest speakers and former students share their expertise. Follow-up advising is available, to assist with building a business further.

Innovation Series
Participants will learn how to take their creative ideas, evaluate them, and protect them. The class, offered in two-hour sessions, over the course of seven weeks, can be taken as a series or as individual modules. It helps entrepreneurs turn ideas into business goals and then achieve those goals. Assistance for inventors includes product development, resource information and referrals, training, and one-on-one confidential business advising.

QuickBooks® for Business
Learn how to use basic and advanced QuickBooks® functions. Class consists of three-hour modules, which can be taken separately or as a series. Information includes paying expenses using cash, checks, or credit cards; recording customer sales; creating receipts, invoices, and sales orders; issuing credits and refunds; memorizing and scheduling transactions; managing accounts receivable and payable; reconciling accounts; and performing year-end tasks. Instruction is provided also in the basics of payroll processing; customizing sales forms; preparing standard and customized reports; and personalizing QuickBooks® files for individual businesses.

Business Programs

Business Communications and Leadership Program
This business program is designed to help develop advanced leadership and communication skills. With an open enrollment policy, entry is possible any time during the year. The program is based on the proven Toastmaster® business communications curriculum, with the addition of a leadership track, coaching, and mentoring.

Start, Run, and Grow Your Business
Offered by the Lane SBDC in conjunction with Palo Alto Software and the Oregon Broadband Delivery Project; this 12-module interactive online program is designed for any business, whether start-up or established. It can be started at any time and is self-paced. Program includes online courses covering all aspects of a successful business. It provides direction in developing a professional business plan, through presentations, handouts, planning software, videos, and more. Confidential face-to-face or electronic business advising is a component of the program.

Business Management Programs
Signature small business management programs are designed to help business owners increase profitability and reach goals, through improved business management. Small Business Management and AgriBusiness Management are our signature programs. Other business management programs have been developed to reach specific groups.

Small Business Management (SBM) Program*
Over a three-year period, the Small Business Management Program covers management topics—through a customized curriculum—helping you identify and prioritize outcomes and devise a plan to achieve them. The result is; you get the tools and support you need to work smarter not harder. The SBM Program is a unique program in which your business is the textbook.

*Application, instructor approval, and deposit are required.

Small Business Management Year I: Foundations
The SBM Year I: Foundations runs fall through spring terms with 15 classroom sessions offered twice a month, as well as one-on-one
personalized coaching sessions once a month. The one-on-one coaching is designed to fast-track implementation of key concepts and provides the small business owner with access to a professional business consultant. Owners will benefit from classroom sessions, by learning from seasoned entrepreneurs. SBM Year I consists of the three modules listed below:

- **SBM Marketing Foundation Module 1** This marketing module focuses on all aspects of marketing, with the goal of each business finishing with a marketing plan they can execute. Class topics include: value proposition, features and benefits, costumer stages, marketing 101, building a plan, image and branding, internet, social media, email marketing, and personal selling skills and strategies.

- **SBM Financial Foundation Module 2** This financial module focuses on financial statements, accounting, financing and cash-flow budget. Class topics include: accounting concepts, introduction to financial statements, understanding break-even and margins, cash-flow management, pricing, budgeting, taxes, working with accountants, and trends.

- **SBM Operations Foundation Module 3** Having a plan and executing that plan is what this module is all about. It is focusing on employee issues, goal setting, customer service strategies, and more. Each business will finish the module with a plan for managing workflow both in the short-term and in their future growth model. Class topics include: setting and achieving goals, planning, time management; customer service strategies; wealth building; legal and insurance issues; employee basics, recruitment and management; operational manuals; and team building.

### Small Business Management Year II: Systems

The SBM Year II Systems focuses on growing your business through understanding, creating, and implementing systems within your business. SBM Year II is designed for businesses with at least one full-time staff (owner/operator ok). Class topics include: strategic planning, plan/do/check/act; introduction to the e-myth; project management 101; performance evaluations and development; financial statement strategies and ratios; CRM systems and solutions; systems thinking and process improvement; leadership and ethics; advertising and public relations; and class customized topics. Acceptance in the program is based on instructor approval. SBM Year II: Systems is a series of 10 monthly classes, with personalized one-on-one coaching, using your business as the textbook.

### Small Business Management Year III: Advanced Concepts

Continuing the unique combination of 10 monthly classroom sessions and one-on-one personal coaching, businesses work on mastering the earlier concepts while fine-tuning their operation with new material. SBM: Advanced Concepts is designed for businesses that have completed the SBM: Systems class. Class topics include: workplace profiles and facilitation skills; sales management; board of directors; sustainability, job costing; budgeting processes; risk management; exit strategies; and a large number of customized topics based on class member interest. Qualified third-year business owners will receive a certificate of recognition.

### Small Business Management Alumni Program

This continuing education and support program is open only to graduates of the three-year SBM program. Alumni members can drop into any current SBM session, get additional one-on-one business coaching, plus attend the annual “Alumni Only Business Roundtable.” This is the best way for SBM graduates to keep their skills fresh, their contacts growing, and their business on the right path.

### Other Business Management Programs

#### Small Business Management Program for ODOT Contractors (ODOT SBM)*

This program is offered by the SBDC, in partnership with the Oregon Department of Transportation. The Small Business Management for ODOT Contractors Program includes nine 3-hour classes. Information is geared towards helping contractors understand the process of doing business with ODOT. Each class will be devoted to small business management topics, recognizing ODOT-specific issues, peer group discussions and one-on-one confidential business advising.

*Application, instructor approval, and deposit are required.

#### Veterans Small Business Management (V-SBM)*

This program is made possible through a grant from the Oregon Small Business Development Center Network and the SBDC. Veterans interested in building or growing their businesses can receive assistance through classroom training and personal one-on-one advising.

*Application, instructor approval, and deposit are required.

#### Farm and Garden Partnership

The OSU Extension/Lane Farms and Gardens Program and the SBDC's AgriBusiness Management Program partner to assist agricultural businesses achieve family and business goals. Topics include: improved management, organization, horticulture capacity, livestock management, and food preservation. This farm and garden partnership offers a variety of agricultural, horticultural, preservation classes and workshops for the business owner throughout Lane County.

#### AgriBusiness Management Program (ABM)*

The AgriBusiness Program provides education for agricultural owners, businesses, family members and key personnel. This business education ranges from startups to small and large operations. The program is designed to meet the specific needs of each operation and includes classroom instruction and on-site visits. Among the courses available are: starting and planning a new operation, budget development, record keeping and financial management (use of record keeping and spreadsheet software; business planning and goal setting; understanding cost of production; and financial analysis). Instruction also will cover sales and marketing; use of internet and social media, tax, wage, legal issues; and estate and succession planning.

*Application, instructor approval, and deposit are required.

#### Non-Profit Management Institute*

The Non-Profit Management Institute provides a full range of professional development programs for nonprofits in Lane County. The curricula, designed for nonprofit managers, directors, key staff, and volunteers, aids in improving governance and management skills. It ensures the successful and sustainable operation of organizations, and prepares for advancement. Significant features of the programs include: peer networking, help from advisors, access to extensive online resources, inclusion of multiple members from an organization, and opportunity to learn from guest speakers, who are experienced professionals. Ten hours of one-on-one advising is included with each program. Non-Profit programs run October through June.

*Application, instructor approval, and deposit are required.
Non-Profit Business Management Program
This is a nine-month program for directors and staff of organizations recently formed, or for individuals working in nonprofits less than five years. It is also suitable for board members and others new to nonprofits. The program focuses on the fundamentals of governance; operational policies and procedures; financial management and funding; volunteer programs; and marketing.

Advanced Non-Profit Business Management Program
This is a nine-month program for executive directors and staff of established nonprofits. The emphasis is on advanced governance and policy development; volunteer program development; program and service assessment; sustainable funding; donor development; grant writing; marketing; branding; and strategic planning. As an added benefit, the information is customized each year to meet the specific needs of participants. Additional staff or board members of participating organizations may attend relevant sessions at no additional cost.

Employer Training Services
Employer Training Services (ETS) assists businesses, organizations, and employers with customized employee training. Services are for any business or organization, from startup to well-established.

ETS works closely with an organization’s staff to assess the specific needs of the company. Training focuses on the business’ unique philosophy, culture, and values. Services are cost effective, innovative, led by expert instructors, and use quality curriculum with immediate results. Scheduling is flexible and held at your business location, or in one of the new smart classrooms, at LCC’s Downtown Campus. You dream it—we deliver!

A Sampling of the Training Available:
- Basic/Advanced Job Skills and Certifications
- Project, Process, and Time Management
- IT/Computer Training and Certification
- Customer Service and Leadership
- Safety, Compliance, and Regulatory
- And much more!

ETS is located at LCC’s new Downtown Campus Building, 101 West 10th Avenue, Ste. 304, Eugene. Contact Employer Training Services at 541.463.6200 or email employertraining@lanecc.edu.

Human Resources
A partnership was created with the Society of Human Resource Management, the Lane SBDC, and ETS to provide human resource management training to the Lane County area.

SHRM: PHR & SPHR Test Preparation Course
This course is designed for business owners, managers, and human resource professionals, as a preparation tool for the PHR or SPHR exam. Using the SHRM Learning System®, it aids in the comprehensive review of the entire body of Human Resource knowledge, as tested by the Human Resource Certification Institute. Class is 36 hours, plus a six-hour sample test session (on one Saturday). It equals 4.5 CEUs and offers a SHRM certificate.

SHRM: Human Resource Essentials
This class is designed for entry-level HR professionals; small business owners and managers responsible for HR functions in their companies; and people looking into human resources as a possible career. Knowledge of HR basics can improve on-the-job effectiveness, protect businesses from needless litigation, and advance individual careers. Participants receive 1.5 CEUs and a SHRM Certificate.

Leadership

Learning to Lead Series by AchieveGlobalITM
The Learning to Lead Series is offered jointly with AchieveGlobalITM, the SBDC, and Employer Training Services. This nationally recognized leadership certification series provides practical leadership skills for managers, employees, and business owners. It provides managers and potential managers with useful skills for optimizing employee engagement and meeting the expanding needs of their job. This interactive series focuses on situations that leaders face on a day-to-day basis. Participants will learn and practice the skills that increase productivity, strengthen relationships, and build leadership success. An AchieveGlobalITM certificate is given for successful completion.

Medical and Resuscitation Workshops
A variety of workshops are offered to the medical community each year.

Advanced Cardiac Life Support (ACLS)
(Certification class for health care providers, nursing professionals, and paramedics)
ACLS is designed to provide American Heart Association (AHA) standards, cardiac knowledge, and psychomotor skills associated with the delivery of professional care of the cardiac patient. ACLS addresses the core knowledge necessary to evaluate and manage an adult victim of a cardiovascular emergency or cardiac arrest. Class structure includes lecture and hands-on skill stations, with written examination and satisfactory performance at the evaluation stations mandatory; according to AHA performance criteria.

Pediatric Advanced Life Support (PALS)
(Certification class for health care providers, nursing professionals, and paramedics)
The PALS course was developed for training of health care providers who may be required to resuscitate children. It focuses on assessment of pre-arrest states and prevention of cardiopulmonary arrest in children. Class structure includes lecture and hands-on skill stations, with a written examination and satisfactory performance at the evaluation stations mandatory; according to AHA performance criteria. PALS Provider Manual and advance homework required.

Trauma Nurse Core Course (TNCC)
(Certification class for nursing professionals)
ENA’s TNCC provides ED and ICU RNs with core knowledge and skills to care for the trauma patient. This class includes airway management, initial assessment, helmet removal, multiple trauma interventions, spinal immobilization, and splinting. TNCC provider verification is valid for four years. Current RN License required for certification. Current copy of AHA TNCC card must be submitted with registration for the renewal course. Sixth Edition TNCC Provider Manual and advance homework required. Equals 14.42 CEU's/Core and 8 CEU's/Renewal.
Workforce Development

The Workforce Development Department is a grant-funded department that focuses on job readiness, skill enhancement, and training for reemployment. It is located on Lane’s main campus in Building 19 and can be reached at 541.463.5223 or lanecc.edu/wdd/ The following services, programs, classes and workshops are free and open to the public as well as Lane students.

The Workforce Network

The Workforce Network is the delivery of workforce development services to adults and dislocated workers in Lane County through a One-Stop career center system. The goal is twofold: 1) to assist with individual job search activities, and 2) to help build a skilled and educated workforce that can meet the needs of the contemporary workplace. The Workforce Network utilizes a consortium approach and is an alliance with the following Lane County agencies:

• Oregon Employment Department
• Department of Human Services
• Lane Workforce Partnership

The Workforce Network provides state-of-the-art resources for the community through the following no-cost services:

• Skills, abilities and interests assessments
• Career exploration
• Skill upgrading
• Resume and cover letter development
• Online job search and application
• Job search workshops and seminars

A monthly calendar schedule of current job search workshops and basic skills classes is available at the department website at lanecc.edu/wdd/

The Career Readiness Certificate (CRC)

The CRC is a nationally recognized certification that measures skills needed for the workplace, with certificates awarded at Bronze, Silver or Gold levels. Earning the CRC demonstrates that you have the skills needed by employers nationwide. CRC orientations, classes, access to courseware, and testing are available at no charge through the Workforce Development Department. Call 541.463.3217 for more information.

Brighter Futures Grant

Lane was one of eight community colleges nationwide selected in August 2009 for the Brighter Futures Grant, a project of the League for Innovation and the Walmart Foundation. This two-year demonstration project allows for expanded career development and advising, enhanced job search assistance, and follow-up services for dislocated workers who participate. Call 541.463.5861 for more information.

Lane Community College Board of Education

Seven elected, nonpaid citizens comprise the Board of Education. Elections are held in May of odd-numbered years and openings are staggered. Vacancies due to unexpired terms are filled by board appointment. Board members are elected to four-year terms.

The Board of Education has primary authority for establishing policies governing the operation of the college and for adopting the college’s annual budget. The board’s charge is to oversee the development of programs and services that board members believe will best serve the needs of the people of the Lane Community College district.

The board holds public meetings the second Wednesday evening of each month, normally in the Boardroom, Building 3, main campus. Additional meetings are held as needed.

Governance and Staff

Zone 2–Northern part of college district

Gary LeClair, physician, Springfield, elected May 2009, term expires June 30, 2013
Zone 3–Marcola and Springfield part of college district

Zone 4–Eastern part of college district

Sharon Stiles, retired EEO officer, Florence, elected May 2009, term expires June 30, 2013
Zone 1–Western part of college district

Governance and Staff
Dr. Dale Parnell was named president emeritus by the Board of Directors.

Administration

The college is administered by the president, under authority delegated by the Lane Community College Board of Education, with assistance from vice presidents, executive deans, division deans, and directors.

- Mary Spilde, President; at Lane since 1995. Ph.D. Oregon State Univ.; M.Ed. Oregon State Univ.; B.S., L.L.B. Univ. of Edinburgh
- Kate Barry, interim Executive Dean, Student Affairs; at Lane since 1977. Ph.D. Oregon State Univ.; M.A. Univ. of Oregon; B.A. Newcastle Univ.
- Don McNair, Executive Dean, Academic Affairs Transfer; at Lane since 1982. M.S. Univ. of Oregon; B.S. Univ. of Oregon
- Greg Morgan, Chief Financial Officer; at Lane since 2006. M.S. Univ. of Southern California; B.S. Brigham Young Univ.
- Dennis Carr, Chief Human Resource Officer; at Lane since 2003. M.S.I.R. Univ. of Oregon; B.S. Hiram College
- Bill Schuetz, Chief Information Officer; at Lane since 2011. Ph.D. Claremont Graduate Univ.; M.S. Claremont Graduate School; B.S. Univ. of Washington

Emeriti

The late Dr. Eldon G. Schafer was named president emeritus by the Board of Education in 1985. Dr. Schafer served as Lane president from 1970-85.

Dr. Dale Parnell was named president emeritus by the Board of Education in 2004. Dr. Parnell was Lane’s founding president and served from 1965-68. He became a national leader in the community college movement.

Oregon State Board of Education

As one of Oregon’s 17 publicly supported community college districts, Lane operates under the general direction of the Oregon State Board of Education:

- Serilda Summers-McGee, Portland
- Angela Bowen, Coos Bay
- Gerald Hamilton, Klamath Falls
- Artemio Paz, Jr., Springfield
- Duncan Wyse, Portland
- Samuel Henry, Portland

State Department of Education administration includes:

- Susan Castillo, State Superintendent of Public Instruction
- Cam Preus, Commissioner, Department of Community Colleges and Workforce Development

Lane Community College Budget Committee

The Budget Committee analyzes the administration’s annual budget proposal. The 2011-2012 Budget Committee includes the Board of Education and the following members:

- Jacque Betz, term expires 2015, City Manager, Florence
- Jennifer Harris, term expires 2015, Chief Financial Officer, Springfield
- Matt Keating, term expires 2015, Campaign Manager, Eugene
- Carmen X. Urbina, term expires 2013, school district family and community coordinator, Eugene
- Chris Matson, term expires 2013, Marketing and Political Consultant, Eugene
- Amy Callahan, term expires 2015, Executive Director, Cottage Grove
- Kevin Cronin, term expires 2014, Community Organizer, Springfield

Advisory Committees

More than 600 volunteers are appointed by the Lane Community College Board of Education to 45 advisory committees. These committees offer advice and assistance to instructional programs, enabling the college to tie its programs closely to current practices in the world of work and to employment opportunities.

All of the college’s career technical programs, as well as most non-credit programs, have advisory committees. The college also has advisory committees for programs and services such as KLCC, English as a Second Language, and Small Business Management.

The Career Technical Education Coordinating Committee (CTECC) provides oversight for all advisory committees.

Members of the advisory committees may change during the year. Current lists are managed by Academic and Student Affairs.

Lane Community College Foundation

The Lane Community College Foundation raises and invests funds for scholarships, programs and capital needs.

Program support The state provides only a portion of the funding necessary to support instructional programs. Gifts from individuals and businesses strengthen Lane’s ability to provide education and career training to nearly 40,000 students each year.

Scholarships Scholarships open the door to higher education for many people who otherwise could not afford college. Gifts for scholarships are an investment in the future.
Tax-deductible gifts to support Lane’s programs and students should be made payable to: Lane Community College Foundation, 4000 East 30th Avenue, Eugene, OR 97405. Call 541.463.3226 for more information on how you can help. If you are interested in applying for a scholarship, visit lanec.edu/foundation.

### Staff

For fall term 2012, Lane employed 1,160 contracted faculty and staff and part-time credit faculty. A list of contracted and part-time instructional staff follows.

<table>
<thead>
<tr>
<th>Full-Time Instructional Staff</th>
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<tbody>
<tr>
<td><strong>Academic Learning Skills/ESL/ Tutoring</strong></td>
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<tr>
<td>Lindsay, Catharine D.</td>
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<td>Coleman, Liz E.</td>
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<td>Gayle-Reddoor, Susan C.</td>
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<td>Johnston, Stephen D.</td>
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<td>McKenzie, Judith C.</td>
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<td>Quiddy, Stephen J.</td>
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<td>Mitchell, Adrienne C.</td>
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<td>Pray, Elaine V.</td>
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<tr>
<td>Adult Basic and Secondary Education</td>
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<tr>
<td>Gaudia, Amy</td>
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<tr>
<td>Hemsoth, Gail L.</td>
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<tr>
<td>Jackson, Patricia J.</td>
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<tr>
<td>Kent, Leonora T.</td>
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<td>Lamoreaux, Alice A.</td>
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<td>Niles, Alicia M.</td>
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<td>O’Brien, James S.</td>
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<td>Pardev Grutta, Christine E.</td>
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<td>Pfaff, Julie A.</td>
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<td>Young, James K.</td>
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<tr>
<td>Advanced Technology Division</td>
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<tr>
<td>O’Connor, Patrick Dean</td>
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<td>Bergen, Dean E.</td>
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<td>Bridges, Jon H.</td>
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<td>Caffey, Stephen P.</td>
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<td>Clark, Alan B.</td>
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<td>Dale, Terry R.</td>
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<td>Huntington, Mark M.</td>
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<td>Keen, Leonard R.</td>
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<td>Laskey, Allen L.</td>
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<td>Mathers, Kelly D.</td>
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<td>Riordon, Egan A.</td>
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<td>Robertson, Margaret E.</td>
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<td>Taylor, Dennis</td>
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<tr>
<td>Webb, Steven A.</td>
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<tr>
<td>Weiss, Doug O.</td>
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</tbody>
</table>

### Aviation Academy

| **Boulton, Stephen A.** | Director; M.Div. Emmanuel School of Religion |
| **Gallagher, Neal** | B.A. Albertus Magnus Col.; FAA InspectionAuthorization; FAA Airframe and Powerplant licenses; FAA Certified Flight Instructor with Instrument and Multi-engine privileges |
| **Lancaster, Paul B.A.** | M.A. George Fox Col.; FAA Certified Flight Instructor; FAA CFI-Instrument, MEI, Airline Transport Pilot, B-737 Type Rating |
| **Lowenkron, Laurence H.** | B.S. Humboldt State Univ.; FAA Comm Pilot Single Sea; FAA Airframe and Powerplant; Cert Professional Engineer; FAA Comm Pilot Glider; FAA Comm Pilot Sgl Eng Lnd Inst |
| **Moore, Herbert** | Automotive Cert. DeAnza Col.; Auto/Air/Aviation/ Gen. Ed. Cert. Lane Community Col.; FAA Airframe and Powerplant License |
| **Stapley, Mathew** | UH-1N Power Trains and Rotors; Pratt and Whitney T400-CP400 (PT6-T) Twin Pac Power Plant School; Gen. Ed. Irvin Col.; B.S. Southern Illinois Univ. |

### Business

| **Scott, Lawrence R.** | Interim Dean; B.S.C. Univ. of Victoria - Canada; B.S.C. Univ. of Victoria - Canada; M.A. Antioch Univ. -Yellow Springs |
| **Boozer, Judy A.** | B.A. Idaho State Univ.; M.S.T. Portland State Univ. |
| **Culver, Christopher D.** | B.S. Univ. of Oregon; M.B.A. Univ. of Oregon; Certified Public Accountant |
| **Grant-Churchwell, C C. B. S.** | San Jose State Univ.; M.S. San Jose State Univ. |
| **Kimble, Sharon R.** | B.S. Western Carolina Univ.; B.S. Western Carolina Univ.; M.Ed. Western Carolina Univ. |
| **Rudnick, David B.** | B.S. Clarion Univ. of Pennsylvania; M.S. Emporia State Univ.; M.Ed. Univ. of South Florida |
### Computer Information Technology

- **Little, Ronald K.**  
  B.S.
  Montana State Univ.; M.S.
  Univ. of Oregon;
  Cisco Certified Network Assoc

- **Good, Marilou**  
  B.S.
  Univ. of Oregon;
  M.S.
  Brigham Young Univ.

- **Wilkins, Paul C.**  
  B.S.
  Portland State Univ.; M.A.
  Univ. of Oregon

- **Bakshi, Indira M.**  
  B.S.
  Purdue Univ. West Lafayette; M.A.
  Univ. of Texas - Austin

- **Hogg, Stephen D.**  
  B.S.
  Calvin College; M.S.
  Kansas State Univ.; M.B.A.
  Univ. of Idaho

### Counseling

- **de Leon, Jerry F.**  
  Dean; B.A. Univ.
  Colorado Boulder; M.A. Adams State Col.

- **Cummins, Michelle R.**  
  A.A.S. Lane Community Col.; B.S.
  Oregon State Univ.; M.B.A.
  Univ. of Phoenix

### Culinary Arts and Hospitality

- **Aherin, Lisa S.**  
  B.S.
  New Mexico St Univ.; M.Ed.
  Col. of Santa Fe; Ph.D.
  University of Idaho

- **Bakshi, Indira M.**  
  B.S.
  Purdue Univ. West Lafayette; M.A.
  Univ. of Texas - Austin

### Health Professions

- **Bleck, Thomas P.**  
  A.A.S.
  Portland Community Col.; B.A. Univ. of Oregon; M.S.
  Oregon Health Sci Univ.; Cert Hospice & Palliative Care; Registered Nurse

- **Amato, Tony A.**  
  A.A.S.
  Portland Community Col.; B.S.
  Oregon State Univ.; M.B.A.
  University of Phoenix

- **Counseling**

  - **de Leon, Jerry F.**  
    Dean; B.A. Univ.
    Colorado Boulder; M.A. Adams State Col.

  - **Cummins, Michelle R.**  
    A.A.S. Lane Community Col.; B.S.
    Oregon State Univ.; M.B.A.
    Univ. of Phoenix

### Health & PE

- **Bates, Rodger D.**  
  Dean; B.S.
  Boise State Univ.; M.Ed.
  Oregon State Univ.

- **Bleck, Thomas P.**  
  A.A.S.
  Portland Community Col.; B.A. Univ. of Oregon; M.S.
  Oregon Health Sci Univ.; Cert Hospice & Palliative Care; Registered Nurse

- **Amato, Tony A.**  
  A.A.S.
  Portland Community Col.; B.S.
  Oregon State Univ.; M.B.A.
  University of Phoenix

### Health Clinic

- **Barbuck, Kathleen M.**  
  B.A. Oregon State Univ.; B.S.N.
  Oregon Health Sci Univ.; M.N.
  Oregon Health Sci Univ.; Registered Nurse; F.N.P.

- **Brokaw, Thomas R.**  
  A.A.S. Lane Community Col.; Oregon EMT Paramedic; NAEMT Prehospital Trauma LS In; Advanced Life Support Instructor; CPR Certified

- **Canale, Suzanne**  
  B.S.N. Plattsburgh State Univ.; M.S.
  Univ. of Oregon; M.N.
  Oregon Health Sci Univ.; Registered Nurse

- **Clabon, Toby A.**  
  A.A.S. Lane Community Col.; B.S.N.
  Oregon Health Science Univ.

- **Clark, Leslie W.**  
  A.A.S. Clark Col.; B.S.
  Concordia Univ.; M.Ed.
  Concordia Univ.

- **Herbold Shely, Sharrie A.**  
  B.A. Calif St Univ. - Chico; M.A. Calif St Univ. - Chico

- **Hagman, Sharon S.**  
  B.S. Idaho State Univ.; M.S.
  Westrn Kentucky Univ.; Registered Dental Hygenist

- **Hage, Boo B.**  
  B.S. Portland State Univ.; M.S.N.
  Univ. of Phoenix

- **Harclerode, Jeanne E.**  
  B.S.N. Univ.
  Iowa; M.S.N. Univ. Calif San Francisco; Psychiatric/Ment Health N Prac

- **Howard, Christina**  
  B.S. Univ. Of California Los Angeles; M.P.T. Univ. of California, San Francisco/San Francisco State Univ.; Licensed Physical Therapist

- **Kavanaugh, Rita A.**  
  A.A.S. Diablo Valley Col.; B.A. Calif St Univ. East Bay; Registered Dental Hygenist; Bilingual Spanish/English

- **Kelsay, Patricia K.**  
  B.S.N. Univ. of Oregon Health Sciences Center; M.A. Pacific Univ.

Information reflects Human Resource records as of February 2013
Killen, Janet L. A.S. Grossmont Cnty Col.; A.A.S. Saddleback Col.; B.S.N. Oregon Health Sci Univ.; M.S.N. Liberty Univ.

Lynch, Mary Lou L. B.S.N. Mount St Marys Col. Chalon; M.N. Oregon Health Sci Univ.; Registered Nurse

McDonald, Shari A. A.S. San Diego City Col.; B.S.N. Oregon Health Sci Univ.; M.S.N. Walden Univ. - Minneapolis; Registered Nurse

McCreedy, Douglas C. A.S. Lewis & Clark Col.; M.N. Univ. of Utah

McHugh, Maggie B.S.N. Idaho State; M.S.N. Univ. of Phoenix

Miller, Denise K. B.S.N. Pacific Lutheran Univ.; M.A.T. Evergreen State Col.

Naylor, Elizabeth H. B.A. Univ. Colorado Boulder; M.S. Univ. Wisc Stout/ Menomonie; Registered Dietician

Novick, Liz A.A.S. Excelsior Col.; B.S.N. Excelsior Col.; M.S. Regis Univ.

Pittman, Martha E. A.A.S. Excelsior Col.; C.M.A.; Registered Nurse

Powell, Tamberly M. M.S. Oregon State Univ.

Rickerl, Kellee A.A.S. Victor Valley Community Col.; B.A. Chapman Univ.

Roders, Susan B. A.A. Pasadena City Col.; B.S.N. Mount St Marys Col. Chalon; M.S. Oregon Health Sci Univ.

Swett, Katherine C. B.S.N. Univ. Iowa; M.S. Oregon Health Sci Univ.; Registered Nurse

Thorpe, Beth Ann A.A.S. Univ. of Evansville; B.S. Univ. of Evansville; Physical Therapist Assistant

Tiel, Bren A. A.A.S. Portland Community Col.; B.S.N. Walla Walla Col.; M.N. Univ. Calif Los Angeles; Registered Nurse

Tully, Tricia G. B.S.N. Northm Illinois Univ.; M.S. Troy State Univ. Montgomery

Ulrich, Susan K. B.S.N. Oregon Health Sci Univ.; M.N. Oregon Health Sci Univ.

Wallace, Sarah B.S.N. Lewis Clark State Col.; M.S.N. Walden Univ. School of Nursing

Welch, Janet S. B.S.N. Univ. Minnesota Minneapolis; M.N. Univ. Minnesota Minneapolis; M.N. Univ. of Minnesota-Sch Medicine; Registered Nurse

Williams, Shelley K. A.A.S. Lane Community Coll.; B.A. Northwest Christian Univ.

Institute for Sustainable Practices

Ebage, Roger A. B.A. San Francisco State Univ.; M.A. San Jose State Univ.

Institutional Research,
Assessment and Planning

Taylor, Craig H. Dean; B.S. Univ. Washington; M.B.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Brau, Mary L. B.A. Univ. Washington; M.S. Univ. Tennessee Knoxville

Information reflects Human Resource records as of February 2013

Wilson, David Molloy M.S. Univ. of Oregon

Language, Literature, and Communication

Carkin, Susan J. Dean; B.A. Southrn Illinois Univ. Carbndle; B.A. Southrn Illinois Univ. Carbndle; M.A. Univ. of Oregon; M.A. Utah State Univ.; Ph.D. Northm Arizona Univ.

Almoquist, Karin B.A. Univ. of Oregon; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Bayless, Margaret A. B.A. Idaho State Univ.; M.S. Portland State Univ.; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Beasley, Amy B.A. Gettysburg Coll.; M.A. Washington State Univ.

Breaden, Barbara L. B.A. Univ. Illinois Urbana; M.A. Univ. Illinois Urbana

Bunker, Suzanne L. B.S. Eastern Oregon Univ.; M.S. Univ. of Oregon

Chaves, Hernando J. B.A. Western Washington Univ.; M.F.A. Univ. of Oregon

Cusimano, Roma R. B.A. Oregon State Univ.; B.S. Univ. Wisc Madison; M.A. Univ. of Oregon

Frasier, Crosby J. B.A. Ambassador Clg-Big Sandy; M.A. Univ. Louisiana Monroe


Jensen, Sandra M. B.A. Univ. Washington; M.A. Calif St Univ. Fullerton; Bilingual Spanish/English

Krumrey-Fulks, Karen S. B.A. Univ. Southrn Utah Univ.; M.A. Univ. Kentucky Lexington; Ph.D. Univ. Kentucky Lexington

Luke, Matthew M. B.A. San Diego State Univ.; M.A. Univ. of Oregon

Lushia, Sarah B.A. State Univ. of New York; M.A. Oregon State Univ.; Ph.D. State Univ. of New York

Matalon-Florendo, Sylvie B.A. Univ. Sorbonne Nouv - Paris ii; B.A. Univ. Sorbonne Nouv - Paris iii; M.A. Univ. of Oregon

McDonald, Michael B. M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

McGraill, Anne B. B.A. Univ. Mass Boston; M.A. Suny Buffalo; Ph.D. Suny Buffalo

Naynaha, Siskanna B.A. Boise State Univ.; M.A. Boise State Univ.; Ph.D. Washington State Univ.

Rosenberg, Harriet B.A. Sch. For International Trng; M.S. Portland State Univ.; Cert Engl Lang Teaching Adults

Shitabata, Russell H. B.A. Univ. Hawaii Manoa; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Stefanovskaya, Bojana B.A. Univ. of Grenoble; M.A. Univ. of Grenoble

Sullivann, Barbara T. B.A. Antioch Univ.-Yellow Springs; M.F.A. Univ. of Oregon

Sullivann, Kate E. B.A. Minnesota State Univ. Moorhead; M.A. Northeastern Univ.; Ph.D. Univ. of Oregon

Thompson, Eileen M. B.A. Univ. Puget Sound; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Tullis, Lynn B. B.A. Colorado Col.; M.A. Portland State Univ.; Ph.D. Univ. of Oregon

Viles, Andrew M. A.S. Blue Mountain Community Coll.; B.A. Oregon State Univ.; M.F.A. Univ. of Michigan-Ann Arbor; Ph.D. Univ. of Oregon

Von Ammon, Jennifer L. B.A. Florida State Univ.; M.A. Florida State Univ.; Ph.D. Florida State Univ.

Woolum, Bill A.S. North Idaho Coll.; B.A. Whitworth Coll.; M.A. Univ. of Oregon

Zimmerman, Kenneth S. B.A. Oberlin Coll.; M.F.A. Univ. of Oregon

Library

Doctor, David L. B.A. Univ. Puget Sound; M.L.S. Univ. Washington

Ferro, Jennifer A. B.A. Univ. of Arizona; M.I.L.S. Univ. of Texas - Austin

Klaudiny, Jennifer M.

Macnaughtan, Donald T. B.A. Univ. of Auckland; M.A. Univ. of Auckland; M.L.S. Victoria Univ. of Wellington

Mathematics

Hiedik, Kathryn Dean; B.A. Oregon State Univ.; M.A. Univ. of Oregon

Green, Dale E. B.A. Univ. of Oregon; M.A. Oregon State Univ.

Hill, Benjamin L. B.A. Univ. North Dakota Grand Forks; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon

Holton, Kristina L. M.S. Oregon State Univ.

Hsiao, Berri B.S. Univ. of Oregon; M.S. Montana State Univ. Billings; M.S. Univ. of Oregon

Kirkpatrick, Vicky R. B.S. Univ. of Oregon; M.S. Oregon State Univ.

Knoch, Jessica R.

Kovcholevsky, Michel P. B.A. Univ. of Oregon; M.S. Univ. of Oregon

Martinek, Angela B. B.S.M.E. Univ. Vermont; M.S. Univ. Vermont; M.S.M.E. Univ. Vermont

Miner, Catherine A. B.S.M.E. Mass Institute Technology; B.A. Wellesley Col.; M.S. Univ. of Oregon

Moore, Philip E. B.A. Harvard Univ.; M.S. Univ. Iowa

Murphy, Deanna J. B.A. Temple Univ.; M.S. Portland State Univ.

Peck, Arthur M. B.S. Muhlenberg Coll.; M.S. Univ. of Oregon

Rajabzadeh, Ahmad B.S. Eastern Washington Univ.; M.S. Oregon State Univ.

Selph, Stephen L. B.S. Trinity Univ.; M.S. Northwstm Univ.

Smith, Gayle L. B.S. Univ. Illinois Chicago; M.S. Eastern Washington Univ.

White, Karen L. B.A. Colorado Col.; M.S. Univ. of Oregon

Music, Dance and Theatre Arts

Bertucci, Ronald K. B.A. Univ. of Oregon; M.M. Univ. of Oregon
### Science

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ulerick, Sarah L. Dean</td>
<td>B.A. Harvard Univ.; Ph.D. Univ. of Texas - Austin</td>
<td></td>
</tr>
<tr>
<td>Andrews, Christine M.</td>
<td>B.S. Univ. Washington; Ph.D. Univ. Pennsylvania Undergrad Adm</td>
<td></td>
</tr>
<tr>
<td>Bunson, Paul E.</td>
<td>B.S.E.E. Univ. Pennsylvania Undergrad Adm; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
<td></td>
</tr>
<tr>
<td>Gilbert, Dennis D.</td>
<td>B.S. Calif St Univ. Fresno; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
<td></td>
</tr>
<tr>
<td>Holmes, Susan E.</td>
<td>B.S. Oregon State Univ.; M.S. Univ. of Oregon</td>
<td></td>
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<tr>
<td>Kiser, Stacey L.</td>
<td>B.S. Oregon State Univ.; M.S. Univ. of Oregon</td>
<td></td>
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<tr>
<td>Morrison-Graham, Kathleen</td>
<td>B.S. Univ. Calif Davis; Ph.D. Univ. Calif Los Angeles</td>
<td></td>
</tr>
<tr>
<td>Mort, Gary E.</td>
<td>B.S. Southern Oregon Univ.; A.B.D. Univ. of California Davis</td>
<td></td>
</tr>
<tr>
<td>Newell, Carrie L.</td>
<td>B.S. South Dakota State Univ.; B.S. Southern Utah Univ.; M.S. Northern Arizona Univ.</td>
<td></td>
</tr>
<tr>
<td>Nichols, Brian R.</td>
<td>A.A.S. Lane Community Col.; B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
<td></td>
</tr>
<tr>
<td>Pooth, Albert M.</td>
<td>A.S. Onondaga Community Col.; B.S. Suny Col. Envrnmntl Sci Frstyr; Ph.D. Univ. of Miami</td>
<td></td>
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<tr>
<td>Ruscher, Paul H.</td>
<td>M.S. Oregon State Univ.; Ph.D. Oregon State Univ.</td>
<td></td>
</tr>
<tr>
<td>Russin, Joseph A.</td>
<td>B.S. Suny Center Albany; M.S. Utah State Univ.; Secondary Teaching Certificate</td>
<td></td>
</tr>
<tr>
<td>Swank, Stanton R.</td>
<td>B.S. Cal Poly - San Luis Obispo; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
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### Social Science

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<th>Name</th>
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<tr>
<td>Murdock, Kenneth</td>
<td>Dean; B.A. San Francisco State Univ.; M.A. San Francisco State Univ.; Ph.D. Univ. of Oregon</td>
<td></td>
</tr>
<tr>
<td>Adams, Cynthia</td>
<td>B.A. Calif St Univ. Long Beach; M.A. Calif St Univ. Long Beach; Ph.D. Wayne State Univ.</td>
<td></td>
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<tr>
<td>Anderson, Jody L.</td>
<td>B.A. Univ. of Oregon; M.A. Univ. of Oregon</td>
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<tr>
<td>Benjamin, Jane E.</td>
<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
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<tr>
<td>Borrowdale, Jeffrey</td>
<td>B.A. Calif St Univ. Sacramento; M.A.C.Phl. Univ. Calif Santa Barbara</td>
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<td>Broderick, Sheila N.</td>
<td>B.A. Univ. of Oregon; M.A. Univ. of Oregon</td>
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<td>Burrows, William H.</td>
<td>B.S. Southern Oregon Univ.; M.S. Southern Oregon Univ.</td>
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<td>Candee, Stephen M.</td>
<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
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<td>DelNero, John E.</td>
<td>B.A. Calif St Univ. Northridge; M.A. Univ. of Oregon; M.S. Univ. of Oregon</td>
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<td>Esesobar, Joe G.</td>
<td>B.A. Calif St Univ. Fullerton; M.A. Calif St Univ. Fullerton</td>
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<td>Gils, Kendra S.</td>
<td>B.S. Carnegie Mellon Univ.; M.S. Univ. of Utah</td>
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<td>Helzer, Margaret M.</td>
<td>A.S. Penn State Univ/Mont Alto; B.S. Univ. of Oregon; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
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<td>Leung, David W.</td>
<td>B.A. Univ. of Oregon; M.A. Univ. of Oregon</td>
<td></td>
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<tr>
<td>Martinez, Philip R.</td>
<td>B.A. Calif Irvine; M.A. Univ. Calif Berkeley; M.A. Univ. Calif Riverside</td>
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### Small Business Development and Employee Training

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<tr>
<td>Lindly, James L.</td>
<td>Dean; B.S. Univ. of Oregon; M.B.A. Univ. of Oregon; Charted Prpty Casualty Undwtr; Cisco Certified Design Assoc</td>
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### Student Life and Leadership Development

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<th>Name</th>
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<tr>
<td>Delansky, Barbara L. Dean</td>
<td>B.S.E. Suny Col. Cortland; M.S. Indiana Univ. Bloomington; Ph.D. Univ. of Oregon</td>
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<tr>
<td>Evans, Gregory A.</td>
<td>B.S. Myers Univ.; M.Ed. Oregon State Univ.</td>
<td></td>
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<td>Garcia, James S.</td>
<td>B.S. Univ. of Oregon</td>
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### Torch

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<th>Name</th>
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<tr>
<td>Wearne, Dorothy R.</td>
<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
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### TRIO

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<th>Name</th>
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<tr>
<td>Parthemer, Mary S.</td>
<td>Dean; A.A.S. Whatcom Community Col.; B.A. Western Washington Univ.; M.S.W. Arizona State Univ.; LicensedClinical Social Worker</td>
<td></td>
</tr>
<tr>
<td>McKiel, Carol</td>
<td>Director, B.S. Indiana Univ.; M.S. Northeastern State Univ.; Ph.D. Oregon State Univ.</td>
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### Women’s Programs

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<tr>
<th>Name</th>
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<tr>
<td>Di Marco, Cara E.</td>
<td>B.A. Univ. of Oregon; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
<td></td>
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</table>

Information reflects Human Resource records as of February 2013
Academic Learning Skills/ESL/
Tutoring

Akdeniz, Aziza (Lucia) B.F.A. New York Univ.; M.A. Univ. of Colorado; M.F.A. Univ. of Oregon
Burley, Hall B.A. San Francisco State Univ.; M.A. Oregon State Univ.; Graduate Cert. TESOL, Oregon State Univ.
Coulthard, Deborah G. B.A. Univ. of Oregon; M.Ed. Oregon State Univ.
Burley, Hall B.A. San Francisco State Univ.; M.A. Oregon State Univ.; Graduate Cert. TESOL, Oregon State Univ.
Grovos, John B.A. Univ. of Vermont; M.F.A. Oregon State Univ.
Hollitz, Michelle B.S. Jacksonville Univ.; M.Ed. Univ. of Florida
Keppka, Jennifer A. B.A. Univ. of Kansas; M.F.A. Univ. of Oregon
Kernutt, Donna B.A. Univ. of Oregon; M.A. Univ. of Oregon
Kirwin, Maria J. A.A. Clackamas Community Coll.; B.S. Portland State Univ.; M.Ed. Portland State Univ.; Portland State Univ.
Kissinger, Sydney S. B.A. Millersville Univ. PA; M.S. Univ. of Oregon
Kolman, Sue E. B.A. Goucher Coll.; M.Ed. Goucher Coll.
Mckerrrow, Julie A. B.S. Univ. of Oregon; M.A. Pacific Univ.
McLain, Barbara L. B.A. Univ. of Oregon; M.A. Western Oregon Univ.
Murrell, Richard J. B.S. Univ. of Oregon; M.A. Pacific Univ.; M.S. Troy State Univ. Troy
Myers, Karen D. B.A. Univ. of Guelph - Ontario; M.A. Univ. of Oregon
Nissilla, Phyllis M. B.A. George Fox Univ.; M.S. Univ. of Oregon Domínguez Hills
Perkins, Megan A. A.A. Lane Community Coll.; B.S. Univ. of Oregon; M.Ed. Oregon State Univ. Corvallis;
Roshak, Jessica L. B.A. Boston Univ.; M.A. Univ. Pennsylvania Undrgd Adm
Schweigert, Cynthia J. B.A. Univ. of Oregon; M.A. Univ. of Oregon
Sposato, Robert J. B.S. Univ. Bridgeport; M.Ed. Univ. Vermont
Summers, Leroy M.Ed. Oregon State Univ.
Wight, Sherrill C. B.S. Brigham Young Univ. Utah; M.A. Univ. of Utah

Adult Basic and Secondary Education

Clark, Dennis S. B.S. Univ. Wisc Oshkosh; M.S. Univ. of Oregon
Hays, Gary D. B.S. Univ. of Oregon; M.S. Univ. of Oregon
Levine, Kerin O. A.A. Lane Community Coll.; B.A. Univ. of Oregon; B.F.A. Univ. of Oregon; M.Ed. Oregon State Univ.; M.Ed. Western Oregon Univ.
Lewman, Cheryl S. B.A. Univ. of Oregon; M.A. Univ. of Oregon
Mason, Teresa E. B.S. New Mexico Inst Mining & Tech.; M.Ed. Univ. of Oregon
Monroe, Anne S. B.S. Univ. Wisc Madison
Parrish, John E. B.A. Univ. San Francisco; M.A. Univ. San Francisco
Schlichtmann, Daniel P. A.A. Col. of Marin; B.A. San Francisco State Univ.; M.A. Oakland Univ.; M.A. Univ. of Oregon
Schroeder, Mark H. B.A. Univ. Calif Irvine; M.A. Univ. of Oregon
Shelly, Rachel M.A. Pacific Univ.
Starr, Susan L. B.A. Calif St Univ. Long Beach; M.S. Oregon State Univ.
Stroop, James D. B.A. Univ. of Houston; M.Ed. Oregon State Univ.
Walker, Ann E. B.A. Univ San Francisco State Univ.; M.A. Pacific Univ.

Advanced Technology Division

Babson, James N. B.A. Cornell Univ.
Baker, Alan A.S. Lane Community Coll.; B.S. Northwestern Christian Univ.
Call, Daniel L. B.S. Univ. Washington; Cert Master RV Technician
Carrere, Daniel A. B.S. Georgia Col. & State Univ; M.S. Georgia Col. & State Univ.
Fleming, Cheryl L. A.S. Lane Community Coll.; A.S. Laramie County Cmty Coll.; B.S. Linfield Coll.
Hewitt, Ana A.S. Lane Community Coll.
Humphries, Jordi A.S. Lane Community Coll.; B.S. Univ. of Oregon; M.S. Univ. of Oregon
Krus, David A. B.S. Yale Univ.; B.M. Juilliard School; M.M. Juilliard School
Nygard, Lloyd P.
Rea, Paul H. B.A. Univ. of Oregon
Revell, Robert D. Journeyman Cert Millwright
Steinberg, Shalimar B.A. Pacific Univ. A.A.O.T. Lane Community Coll.

Arts Division

Ali, Katherine L. B.F.A. Calif Col. of Art
Berner, Christopher A. B.F.A. Kansas City Art Institute
Burton, Thomas J. A.A.O.T. Lane Community Coll.
Campbell, George R. A.A. Lane Community Coll.; B.S. Univ. of Oregon
Caprario-Ulrich, Kathleen M. Dipl. Newark Sch Fine & Indust Art

Coronado, Ian J. B.F.A. Univ. Oklahoma; M.F.A. Univ. of Oregon
De Vine, Robert B.F.A. St Johns Univ. Jamaica
DeVore, Carla E. B.F.A. Univ. Minnesota Duluth; M.A. Univ. of Oregon
Finnerty, Kathryn A. M.F.A. Louisana St Univ. Baton Rouge
Godfrey, Anne C. B.A. Carleton Coll.; B.L.A. Univ. of Oregon; M.L.A. Univ. of Oregon
Goolsby, Jefferson J. B.A. Calif St Univ. - Chico; M.A. Calif St Univ. - Chico; M.F.A. Univ. of Oregon
Halvorsen, Jan A. B.F.A. Univ. of Oregon
Lennox, Richard T. B.F.A. Ohio Univ. Athens; B.S.Ed. Ohio Univ. Athens; M.S. Univ. of Oregon
Loge, Kenneth P. A.A. Central Wyoming Coll.; B.A. Univ. of Oregon; M.S. Univ. of Oregon
Lucania, Patrick J. B.S. Western Oregon Univ.; M.A.T. Western Oregon Univ.; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon
Madison, Thomas O. B.S. Western Oregon Univ.
McDonald, Damian J.A.A. Lane Community Coll.; B.A. Univ. of Oregon
Morrill, Suzanne D. B.F.A. Univ. of Oregon; M.F.A. Univ. of Oregon
Mrazek, Jarmila M.F.A. Univ. of Oregon
Murney, Kathleen N. B.A. Purdue Univ. West Lafayette; M.F.A. Univ. of Oregon
Phillips, Michael G. B.F.A. Univ. of Oregon; M.F.A. Rochester Inst Tech
Plunkett, Mary A. B.A. Univ. Texas El Paso; M.A. Univ. of Oregon
Potwora, Kristie A. B.A. Humboldt State Univ.; B.F.A. Univ. of Oregon; M.F.A. Univ. of Oregon
Ragulsky, Frank A. B.S. Colorado State Univ. Pueblo; M.A. Adams State Coll.; Ed.D. Oklahoma State Univ. Stillwater
Richenberg, Carrie O. B.A. Univ. of Oregon; M.F.A. American Univ. DC
Salzman, Jennifer K. B.S. Univ. Wisc Stevens Point; M.F.A. Univ. Minnesota Minneapolis
Schmitt, Dan T. B.A. Univ. of Puget Sound; M.F.A. Kent State Univ.
Selover, Robin E. B.F.A. Univ. of Oregon; M.F.A. Univ. of Oregon
Soraci, Gabriella M. B.F.A. Univ. of Oregon
Tynesky, Ellen P. B.S. Univ. of Oregon; M.F.A. Univ. of Oregon
Watson, John C. B.F.A. Univ. Montevallo; M.F.A. Texas A&M Univ. Corpus Christi
Welton, Daniel V. B.A. San Jose State Univ.; M.S. Univ. of Oregon

Athletics

Blackmore, Michael G. B.S. Univ. of Oregon
Garner, Scott V. B.S. Univ. of Oregon; M.S. Univ. of Oregon

Information reflects Human Resource records as of February 2013
Aviation Academy
Faltersack, Aaron L.
Killam, Justin B. A.S. Lane Community Col.; FAA Ground Instructor Advanced; FAA MEI (Multiengine Instructor); FAA Com Pilot Sgl Eng Lnd Inst; FAA MEL (Multi-Engine Land); FAA Flight Instructor, CFII
Parrish, Walter S. A.S. Lane Community Col.; A.S. Lane Community Col.; B.A. Northwest Christian Univ.; FAA Com Pilot Sgl Eng Lnd Inst; FAA MEL (Multi-Engine Land); FAA Flight Instructor, CFII; FAA MEI (Multiengine Instructor); FAA Ground Instructor Instrum; FAA Ground Instructor Advanced
Rasmussen, Mark A.
Roney, Michael S. A.A.S. Lane Community Col.; FAA Ground Instructor Instrum; FAA Flight Instructor, CFII; FAA Com Pilot Sgl Eng Lnd Inst; FAA Ground Instructor Advanced
Senderling, Steven B.S. Univ. of Maryland/Univ. Clg; FAA Com Pilot Sgl Eng Lnd Inst; FAA MEI (Multi-Engine Land); FAA MEI (Multi-engine Instructor); FAA Ground Instructor Instrum; FAA Flight Instructor, CFII
Wisdom, Jacob I. A.S. Lane Community Col.; FAA Flight Instructor, CFII; FAA Com Pilot Sgl Eng Lnd Inst; FAA Ground Instructor Advanced; FAA Ground Instructor Instrum

Business
Arnaud, Velda A. B.A. Univ. of Oregon; M.A. Univ. of Oregon
Boozer, Judy A. B.A. Idaho State Univ.; M.S.T. Portland State Univ.
Boyle, Patricia A. B.S. Cal Poly - San Luis Obispo; M.B.A. Oregon State Univ.
Chase, James M.A. Northwest Christian Univ.
Darling, Bruce L. B.A. Col. Wooster; M.S.T. Cleveland State Univ.; M.B.A. Cleveland State Univ.
Frictl, Lois M.S.T. Oregon State Univ.
Hansen, Marcelle M.
Hovet, Timothy D. B.A. Univ. Montana; M.B.A. Univ. of Oregon
Howard, Andrew C.
LePelley, Eilene R. B.A. Idaho State Univ.
Rice, Rhonda L. B.A. Calif St Univ. - Chico; M.B.A. Northwest Christian Univ.
Wallace, Tulsi E. B.L.A. Univ. of Oregon; M.B.A. George Fox Univ.

Child and Family Education
Maggee, Aoife
Van Norman Renee

Computer Information Technology
Baughman, Andrea S. A.A. Lane Community Col.; B.A. George Fox Univ.
Beisse, George F. B.A. Western Washington Univ.; M.A. Univ. of Oregon
Ditson, Mary T. B.A. Goucher Col.; M.C.A.T. Mahnemann Medical Col.; C.M.T.; Cert. Special Ed.
Gifford, Brent D. B.S. Brigham Young Univ. Utah; M.S. George Mason Univ.
Gray, Michael K. B.A. Univ. of Oregon; M.A. Univ. of Oregon; Secondary Teaching Certificate
Haley, Robert J. B.A. San Jose State Univ.; Secondary Teaching Certificate
Konar, Thaddeus A.A. Cuyahoga C.C. Eastern; B.S. Cleveland State Univ.; M.A. Univ. of Oregon
Loewinger, Howard A. A.S. Lane Community Col.; B.A. Calif Berkeley; M.S. Univ. of Oregon
Malecha, Geoffrey R.
Maleki, Mohammad B.S. Univ. of Oregon; M.S. Univ. of Oregon
Osak, Linda S. B.S. Univ. Calif Riversides
Rizk, Ziad A. B.A. San Diego State Univ.
Waechter, Aaron A. B.S. Cal Poly - San Luis Obispo

Cooperative Education
Ditson, Mary T. B.A. Goucher Col.; M.C.A.T. Mahnemann Medical Col.; C.M.T.; Cert. Special Ed.
Ewell, Joy C. B.A. Whitman Coll.; M.S. Univ. of Oregon
Farfan, Beverly V. C.E.R.T.1. San Jose State Univ.; A.S. Univ. Calif Santa Cruz; B.A. Calif St Univ. Long Beach; Severely Disab Teaching Cert; Elem Education Teaching Cert; Learning Handicpd Teaching Cert
Goodman, Bear J. B.A. Univ. of Oregon; M.A. Pacific Univ.
Lasher, Marlene G. M.P.H. Univ. Hawaii Manoa; M.S.W. Univ. Washington
Lauf, Peter J. B.A. Univ. of Wisconsin, Madison; M.Ed. Western Washington Univ.
Lilliefors, Lori A. A.A. Delta Col.; B.S. Central Michigan Univ.

Cottage Grove Center
Couch, Denise D. B.A. San Diego State Univ.; M.A. San Diego State Univ.
Farrington, Marianne P. C.E.R.T.1. Alvin Allen American Dance Ctr; A.A.S. Fashion Inst Tech; AFARA Certification; Personal Trainer Certification; Kickboxing Certification; OSSA Coach
Getz, William J. B.A. Univ. Calif Berkeley; M.A. San Jose State Univ.
Gilroy, Mary M. A.A. Ventura Community Col.; B.A. Humboldt State Univ.; M.A. Oakland Univ.
Gourley-Biggs, Patricia A.
Grieger, Ben B. B.S. Univ. Houston Clear Lake; M.A. Univ. Houston Clear Lake
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Pineda, Marika C. B.A. Univ. of Oregon; M.F.A. Univ. Washington; M.L.I.S. Univ. Washington

Mathematics

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Information reflects Human Resource records as of February 2013
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Information reflects Human Resource records as of February 2013

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Mort, Michele G. B.A. Loycing Col.; B.A. Loyding Col.; M.S.E.E. Naval Postgraduate School; M.S. Univ. Of Oregon
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Institution</th>
<th>City</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nelson, Julie A.</td>
<td>B.S. Univ. of Oregon; M.S.</td>
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<td>Ga</td>
</tr>
<tr>
<td>Nurre, Stuart C.</td>
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<tr>
<td>Owen, Claudia</td>
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</tr>
<tr>
<td>Rice, Andrea E.</td>
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<tr>
<td>Rice, Harry E.</td>
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<tr>
<td>Ross, Richard A.</td>
<td>D.C. Western States Chiropractic</td>
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<td>Rossberg, Andreas</td>
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<tr>
<td>Scannell, Billy C.</td>
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<tr>
<td>Smith, Geoffrey D.</td>
<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
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<tr>
<td>Smith, Linda J.</td>
<td>B.S. Ft Lewis Col.; M.S. Univ. of Oregon</td>
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<tr>
<td>Stearns, George W.</td>
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<tr>
<td>Swanson, Charles E.</td>
<td>B.S. Univ. Minnesota Minneapolis; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
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<tr>
<td>Turnbull, Lisa C.</td>
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<tr>
<td>Whitney, Sarah</td>
<td>B.L.A. Univ. of Oregon; B.F.A. Long Island Univ. Southampton</td>
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<tr>
<td>Wisely, Beth A.</td>
<td>B.S. Sonoma State Univ.; Ph.D. Univ. of Oregon</td>
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<tr>
<td>Young-Cheney, Joan E.</td>
<td>D.C. Los Angeles Clg-Chiropractic</td>
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<tr>
<td>Boyer, William H.</td>
<td>B.A. Univ. Calif Davis; M.A. Univ. of Oregon</td>
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<tr>
<td>Broderick, Raymond J.</td>
<td>Colby, Frederick S.; B.A. Haverford Col.; M.A. Univ. Chicago; Ph.D. Duke Univ.</td>
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<tr>
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<td>Couch, Denise B.</td>
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<td>Davidson Sprado, Katherine D.</td>
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<td>Delil, Gregory</td>
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<tr>
<td>Donavin, Kirkwood W.</td>
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<tr>
<td>Duemler, David G.</td>
<td>B.S. San Diego State Univ.; Ph.D. Univ. Calif Santa Barbara</td>
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<tr>
<td>Fudge, Toni J.</td>
<td>B.S. San Diego State Univ.; M.S. San Diego State Univ.</td>
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<tr>
<td>Hill, Tami R.</td>
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</tr>
<tr>
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<tr>
<td>Humphrey, Erik C.</td>
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<td>Jacoby, Diana L.</td>
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Z
Zoology (See Biology)
Vision
Transforming lives through learning

Mission
Lane is the community’s college:
We provide comprehensive, accessible, quality, learning-centered educational opportunities that promote student success.

Core Values

Learning
• Working together to create a learning-centered environment
• Recognizing and respecting the unique needs and potential of each learner
• Fostering a culture of achievement in a caring community

Diversity
• Welcoming, valuing and promoting diversity among staff, students and our community
• Cultivating a respectful, inclusive and accessible working and learning environment
• Working effectively in different cultural contexts to serve the educational and linguistic needs of a diverse community
• Developing capacity to understand issues of difference, power and privilege

Innovation
• Supporting creativity, experimentation, and institutional transformation
• Responding to environmental, technological and demographic changes
• Anticipating and responding to internal and external challenges in a timely manner
• Acting courageously, deliberately and systematically in relation to change

Collaboration and Partnership
• Promoting meaningful participation in governance
• Encouraging and expanding partnerships with organizations and groups in our community

Integrity
• Fostering an environment of respect, fairness, honesty and openness.
• Promoting responsible stewardship of resources and public trust.

Accessibility
• Strategically growing learning opportunities
• Minimizing financial, geographical, environmental, social, linguistic and cultural barriers to learning

Sustainability
• Integrating practices that support and improve the health of systems that sustain life
• Providing an interdisciplinary learning environment that builds understanding of sustainable ecological, social, and economic systems, concern for environmental justice, and the competence to act on such knowledge
• Equipping and encouraging all students and staff to participate actively in building a socially diverse, just, and sustainable society, while cultivating connections to local, regional, and global communities

Core Themes

As part of an on-going self-study for the Northwest Commission on Colleges and Universities, Lane has identified the following four core themes that collectively encompass all elements of Lane’s comprehensive Mission. Success for students pursuing educational goals in these curricular areas provides a key indicator of Mission fulfillment for Lane.

Core Theme 1: Academic Transfer
Foster student learning and success through accessible, quality academic transfer preparation.

Core Theme 2: Career Technical and Workforce Development
Foster student learning and success through accessible, quality career-technical preparation and workforce development.

Core Theme 3: Foundational Skills Development
Foster student learning and success through accessible, quality foundational skills development.

Core Theme 4: Lifelong Learning
Provide accessible, quality lifelong learning experiences for the community we serve.
Think • Engage • Create • Communicate • Apply

Think Critically
Definition: Critical thinking is an evaluation process that involves questioning, gathering, and analyzing information relevant to the topic or problem under consideration. Critical thinking can be applied to all subject areas and modes of analysis (historical, mathematical, social, psychological, scientific, aesthetic, literary, etc.). Students who think critically:
- Identify and define key issues
- Determine information need, find and cite relevant information
- Demonstrate knowledge of the context and complexity of the issue
- Integrate other relevant points of view of the issue
- Evaluate supporting information and evidence
- Construct appropriate and defensible reasoning to draw conclusions

Engage Diverse Values with Civic and Ethical Awareness
Definition: Engaged students actively participate as citizens of local, global and digital communities. Engaging requires recognizing and evaluating one’s own views and the views of others. Engaged students are alert to how views and values impact individuals, circumstances, environments and communities. Students who engage:
- Recognize and clarify personal values and perspectives
- Evaluate diverse values and perspectives of others
- Describe the impact of diverse values and perspectives on individuals, communities, and the world
- Demonstrate knowledge of democratic values and practices
- Collaborate with others to achieve shared goals

Create Ideas and Solutions
Definition: Creative thinking is the ability and capacity to create new ideas, images and solutions, and combine and recombine existing images and solutions. In this process, students use theory, embrace ambiguity, take risks, test for validity, generate new opportunities, and persist with the problem when faced with resistance, obstacles, errors, and the possibility of failure. Students who create:
- Experiment with possibilities that move beyond traditional ideas or solutions. Embrace ambiguity and risk mistakes
- Explore or resolve innovative and/or divergent ideas and directions, including contradictory ideas
- Utilize technology to adapt to and create new media
- Invent or hypothesize new variations on a theme, unique solutions or products; transform and revise solution or project to completion
- Persist when faced with difficulties, resistance, or errors; assess failures or mistakes and rework
- Reflect on successes, failures, and obstacles

Communicate Effectively
Definition: To communicate effectively, students must be able to interact with diverse individuals and groups, and in many contexts of communication, from face-to-face to digital. Elements of effective communication vary by speaker, audience, purpose, language, culture, topic, and context. Effective communicators value and practice honesty and respect for others, exerting the effort required to listen and interact productively. Students who communicate effectively:
- Select an effective and appropriate medium (such as face-to-face, written, broadcast, or digital) for conveying the message
- Create and express messages with clear language and nonverbal forms appropriate to the audience and cultural context
- Organize the message to adapt to cultural norms, audience, purpose, and medium
- Support assertions with contextually appropriate and accurate examples, graphics, and quantitative information
- Attend to messages, check for shared meaning, identify sources of misunderstanding, and signal comprehension or non-comprehension
- Demonstrate honesty, openness to alternative views, and respect for others’ freedom to dissent

Apply Learning
Definition: Applied learning occurs when students use their knowledge and skills to solve problems, often in new contexts. When students also reflect on their experiences, they deepen their learning. By applying learning, students act on their knowledge. Students who apply learning:
- Connect theory and practice to develop skills, deepen understanding of fields and broad perspectives
- Recognize and use skills, abilities, theories or methodologies gained in one situation to new situations to solve problems or explore issues
- Use mathematics and quantitative reasoning to solve problems
- Integrate and reflect on experiences and learning from multiple and diverse contexts

Strategic Directions
Lane transforms students’ lives through learning
- We acknowledge that students occupy many roles, including those of family members, workers, members of social groups, and citizens of an increasingly interconnected world.
- We provide educational experiences, support services and institutional structures that enhance student learning and success.
- In our work in and outside of the classroom, and in our daily interactions with students and one another, we aim to empower all students; we encourage students to grow, to take risks, and to assume responsibility for succeeding in all aspects of their lives.

A Liberal Education Approach for Student Learning
Equip students to become global citizens with the broad knowledge and transferable skills characterizing a liberal education approach
- Expand application of the liberal education approach throughout the college’s programs and services

Optimal Student Preparation, Progression and Completion
- Promote students’ progression to goal completion by knowing our students and creating needed systems, processes and learning environments
- Support academically underprepared students’ progression to college-level coursework by providing them with foundational skills, classes and support

Online Learning and Educational Resources
- Build capacity in faculty and staff to create high-quality, sustainable and innovative online learning and educational resources
- Provide the required tools, infrastructure and professional development to use emerging technologies for expanding online learning and educational resources
- Explore the effectiveness of online learning and educational resources

A Safe Learning and Working Environment
- Maintain a safe learning and working environment
- Improve practices and resources that secure property
- Promote activities, practices and processes that encourage civil discourse and protect college communities from discrimination, harassment, threats, and harm

A Sustainable Learning and Working Environment
- Build understanding of sustainable ecological, social and economic systems and practices among the college communities
- Apply principles of sustainable economics, resource use, and social institutions to Lane’s learning and working environments

A Diverse and Inclusive Learning and Working Environment
- Create a diverse and inclusive learning college
- Develop institutional capacity to respond effectively and respectfully to students, staff and community members of all cultures, languages, classes, races, genders, ethnic backgrounds, religious beliefs, sexual orientations, and abilities

Lane Community College is committed to providing a working and learning environment that is free from discrimination, harassment and retaliation. Lane is committed to equal opportunity in education and employment, affirmative action, diversity, and compliance with the Americans with Disabilities Act. The college prohibits discrimination in admissions, employment and access to college programs, activities and services on the basis of race, color, national origin, sex, marital status, familial relationship, sexual orientation, pregnancy, age, disability, religion, suspended juvenile record, or veterans’ status. This commitment is made by the college in accordance with federal, state, and local laws and regulations. Inquiries may be directed to the Chief Human Resource Officer, Lane Community College, 4000 East 30th Avenue, Eugene, Oregon 97405-0940, 541.463.5505. Inquiries regarding Title IX may be directed to the Women’s Program Director, Building 1, Room 202, 541.463.5264. Inquiries regarding Section 504 may be directed to Nancy Hart, Disability Resources Director, Building 1, Room 216, 541.463.3010 or Donna Carr, Chief Human Resource Officer and Section 504 Coordinator, Building 3, Room 114, 541.463.5505.