START YOUR SUCCESS HERE!

SCHOOL OF ARTS & SCIENCES
• Transfer programs
• Save at least $11,200* your first 2 years at Lane
• Just 25 students per class (average)

SCHOOL OF PROFESSIONAL & TECHNICAL CAREERS
• Real-world skills for today’s job market
• 2,000+ student internships annually
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1. Apply online
2. Complete "Steps to Enroll"
3. Register for classes
lanecc.edu/esfs/admissions

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Lane Community College

4000 East 30th Avenue, Eugene, Oregon 97405 • 541.463.3000 • lanecc.edu

STUDENT SUCCESS STARTS HERE!
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 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
- Conduct 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. Engaged students recognize and evaluate 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 to combine and recombine existing images and solutions. In this process, students use theory, embrace ambiguity, take risks, test for validity, generate, 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 re- spect 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 study broad perspectives
- Apply 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

Core Themes
Core Theme 1: Responsive Community Engagement
As an engaged member of our community, Lane’s programs, services, and activities serve the community’s needs.

- Objective 1: Lane offers comprehensive programs that support individual and community needs
- Objective 2: Lane serves the intellectual and social needs of the community through non-academic programs and services

Core Theme 2: Accessible and Inclusive Learning Opportunities
Lane’s policies, procedures, programs, and services facilitate open, fair, and just educational experiences.

- Objective 1: Lane minimizes barriers and maximizes opportunities for diverse student populations

Core Theme 3: Quality Educational Environment
Lane’s quality educational environment embraces academic and instructional integrity, relevancy, rigor, innovation, and transparency.

- Objective 1: Lane employs high-impact practices
- Objective 2: Lane faculty and staff regularly engage in professional development
- Objective 3: Lane’s curricula are designed with intention to support discipline-level program-level, and institutional success

Core Theme 4: Individual Student Achievement
Lane’s students advance on their academic paths and educational goals.

- Objective 1: Students progress toward their educational goals
- Objective 2: Students complete their educational goals

Strategic Directions
Lane Community College’s 2016-2021 Strategic Plan provides a five-year framework for achieving objectives in support of our core themes of responsive community engagement, accessible and equitable learning opportunities, quality educational environment, and individual student achievement. Our 2016-2021 strategic plan builds upon our existing work around student success and focuses on five interrelated strategic directions designed to advance this work in response to present and foreseeable needs:

- Commitment to Student Learning and Success
- A Culture of Teaching, Learning, and Innovation
- Access, Equity, and Inclusion Through Social Justice
- Strenghentened Community
- Financial and Environmental Stewardship

Lane Community College está comprometido a proporcionar un ambiente de trabajo y aprendizaje que sea libre de discriminación, acoso y represalias. Lane está comprometido a la igualdad de oportunidades en la educación y el empleo, sin razón alguna de discriminación, discriminación, actos de acoso sexual y consejos para prevenir, corregir y valorar la necesidad, disciplinar comportamientos que estén en violación de las leyes de acoso y discriminación. Este compromiso lo hace el Colegio de acuerdo a las leyes y regulaciones federales, estatales, y locales, y conforme a las políticas y procedimientos del Colegio. Preguntas pueden dirigirse al primer oficial de recursos humanos, Lane Community College, 4000 East 30th Avenue, Eugene, Oregon 97405-0646, 541.463.5585. Preguntas sobre el Título IX pueden dirigirse a Title IX Officer, Sección 504, 1700 E. 30th Ave #118, 541.463.5585. Preguntas sobre la Sección 504 pueden dirigirse a Dennis Can, primer oficial de recursos humanos, Lane Community College, 4000 East 30th Avenue, Eugene, Oregon 97405-0646, 541.463.5585. Preguntas sobre la Sección 504 pueden dirigirse a Dennis Can, primer oficial de recursos humanos y coordinador de la Sección 504, Edificio 3, Sala 114, 541.463.5585.
### About Lane
- Academic Calendar 2
- Welcome to Lane 3
- How to Get Started at Lane 5
- Phone Numbers 7
- Locations and Maps 8

### College Transfer and Career Technical Programs
- Credit Student Admissions and Registration 10
- Steps to Enroll in Credit Classes 11
- Overview of Academic Programs 12
- Tuition, Fees, Financial Aid and Payment 15
- Academic and Student Services 19
- Degree and Certificate Overview 30
- Career Technical Programs 71
- Procedures and Policies 59
- Transfer Guides 149
- Course Descriptions 179

This catalog is published for informational purposes and every effort is made to ensure 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.

### Community Education, Community Services and Business Education
- Continuing Education 259
- English as a Second Language 260
- Adult Basic and Secondary Education 261
- Community Services 262
- Business and Workforce Development 263

This catalog was prepared with assistance from: Angela Miller, editor; Tammy Salman, coordinator of student outcomes assessment and curriculum development; Melanie Brown, curriculum specialist; Matt Danskine, technology analyst and design; Neil Isaacson and Bruce Nichols, graphic design; cover design by Funk/Levis and Associates.

### Governance and Staff
- Governance 266
- Instructional Staff 268
- Index 276

To request this information in an alternate format, contact the Center for Accessible Resources at 541.463.5150 or AccessibleResources@lanecc.edu
Academic Calendar 2017-2018

Summer Term 2017 (session 201810)
Registration begins* May 8-16 — 7 a.m.
Open registration begins* June 13 — 7 a.m.
Summer term books available June 19
Summer term classes begin June 26
Independence Day, college closed July 4
First four-week session June 26-July 22
Second four-week session July 25-August 19
Third four-week session August 22-September 16
First six-week session June 26-August 5
Second six-week session August 8-September 16
Eight-week session June 26-August 19
Twelve-week session June 26-September 16
Labor Day, college closed September 4

Fall Term 2017 (session 201820)
Registration begins* May 22-31 — 7 a.m.
Open registration begins* September 5 — 7 a.m.
Fall term books available September 11
Inservice, college closed September 21
Fall term classes begin September 25
Last day to receive a tuition refund October 1
— 11:59 p.m.
Veterans’ Day, college closed November 11
Last day for schedule changes November 17
Thanksgiving weekend, college closed November 23-26
Finals week December 4-9
Fall term ends December 9
Winter break December 10-January 7
Holiday Observance, college closed December 22-26

Winter Term 2018 (session 201830)
Registration begins* October 30 -November 7 — 7 a.m.
Open registration begins* December 5 — 7 a.m.
Winter term books available December 28
New Year’s Day, college closed January 1
Winter term classes begin January 8
Last day to receive a tuition refund January 14,
— 11:59 p.m.
Martin Luther King Day, college closed January 15
Presidents’ Day, college closed February 19
Last day for schedule changes March 2
Finals week March 19-24
Winter term ends March 24
Spring break March 25-April 1

Spring Term 2018 (session 201840)
Registration begins* February 12-21 — 7 a.m.
Open registration begins* March 13 — 7 a.m.
Spring term books available March 26
Spring term classes begin April 2
Last day to receive a tuition refund April 8 — 11:59 p.m.
Spring Conference, college closed May 4
Last day for schedule changes May 25
Memorial Day, college closed May 28
Finals week June 11-16
Spring term ends June 16
Graduation June 16

June 2017

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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 Café
Welcome to Lane Community College and congratulations on your choice to attend one of Oregon’s premier community colleges! I am honored to join you in your journey as I start my first year as Lane’s seventh president. For more than 50 years, Lane has provided exemplary education, training and community enrichment services for our community, earning a national reputation for excellence, innovation and sustainability.

You have chosen a college that transforms lives through learning both in the classroom with highly qualified faculty and outside of the classroom through our many support services. While you are here, I invite you to use our bookstore, browse the library, find a favorite place to study, and become a part of the Lane community by joining a club, playing a sport or an instrument, and meeting new people who can help you better understand the world in which you live.

At Lane, you are never far from a campus center. Whether you enjoy a downtown vibe or a coastal setting, we have a place for you to study and complete your degree or certificate. We also have a comprehensive offering of online courses to help you complete your goal from any location at a time convenient to you.

All of us at Lane are here to ensure that you have a personalized educational experience that will help you achieve your goals. Come and experience how Lane Community College transforms lives through learning!

I look forward to seeing you on campus and shaking your hand at graduation. I wish you a happy, healthy and memorable year at Lane!

Dr. Margaret Hamilton, President
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 362,000 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 2015-16 academic year, 28,219 students enrolled in Lane Community College classes. The average age for all students was 34 years.

**Accreditation, Certificates and Affiliations**
Lane is accredited by the Northwest Commission on Colleges and Universities, 8006 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
- 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 (ACPHA). Students graduating from the program will receive national certification status as a Certified Hospitality Graduate (CHG).
- Medical 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: capitonline.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 333-265) and must meet the standards established by the ODE in OAR chapter 581, division 48. 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 2016-17 General Fund budgeted resources are $91,560,078 of which 57 percent came from intergovernmental, 37 percent from tuition and mandatory fees, and 5 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, nonprofit corporation that raises funds to support programs for which tax monies are insufficient or unavailable.

**myLane**
Use myLane for registration, account payments, viewing schedules, class details, financial aid, and grades. Check each term’s class schedule for information on registration dates, getting your “L” number and going online in myLane.
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. For detailed information about credit programs and courses, see Career Technical programs and Course Descriptions.

Noncredit Community Education Classes
Noncredit courses are not transferable to Lane’s associate degrees and career technical degree programs or to other colleges. Information about these offerings begins on page 259.

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 at 541.463.5256. The catalog also can be found on Lane's Web site, lanecc.edu.

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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 Continuing 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 Counseling and Advising Center.

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

Enrollment and Student Financial Services admits credit students and provides registration and billing assistance to all students.

Financial Aid Building 1, First Floor (Lobby), lanecc.edu/finaid/, 541.463.3400

Financial aid responds to all questions and issues regarding financial aid.

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

Titan Peer Associates Building 1, First Floor (Lobby)

Student peers are available to assist students to access online Enrollment and Student Financial Services and Financial Aid services.

Other Good Starting Places:
College centers and maps, pages 8-9
Center for Accessible Resources, page 20
English as a Second Language, page 260
International Student Program, page 23
Multicultural Center, page 25
Native American Program, page 26
TRiO Learning Center, pages 27
Veterans’ Services, pages 28-30
Women’s Center, page 30
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.

Qué 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 transferirlos a otros colleges/universidades o para que formen parte de un programa técnico/profesional. La información sobre clases de crédito curricular empiezan en Career Technical Programs and Course Descriptions.

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 259.

Buenos Puntos de Partida
Lane ofrece una variedad de opciones educativas las cuales están diseñadas para cumplir con los desees 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 lanecc.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. El catálogo se encuentran en el portal de Lane en el Internet, lanecc.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.
<table>
<thead>
<tr>
<th>College Phone Numbers</th>
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<tr>
<td><strong>Main college phone:</strong> 541.463.3000</td>
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<tr>
<td><strong>Administrators</strong></td>
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<tr>
<td>President .................. 541.463.5200</td>
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<td>Vice President, College Services .................. 541.463.5310</td>
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<td>Vice President, Academic and Student Affairs .............. 541.463.5302</td>
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<td>Executive Dean Academic Affairs, Career Technical ........ 541.463.5315</td>
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<td>Executive Dean Student Affairs ................... 541.463.5725</td>
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<td>Admissions/Enrollment and Student Financial Services .......... 541.463.3100</td>
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<td>Cooperative Education ............. 541.463.5203</td>
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<td>Cottage Grove Center* .................. 541.942.4202</td>
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<td>Counseling (Main Campus) ................ 541.463.3200</td>
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<td>Credit Instructional Departments</td>
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<td>Advanced Technology .................. 541.463.5380</td>
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<td>Arts Division ...................... 541.463.5409</td>
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<td>Aviation Academy .................... 541.463.4195</td>
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<td>Business Department .................. 541.463.5221</td>
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<td>Language, Literature and Communication .......... 541.463.5419</td>
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<td>Denali (Student Publication) .................. 541.463.5897</td>
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<td>Dental Hygiene Clinic ................ 541.463.5206</td>
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<td>Downtown Campus ................. 541.463.6250</td>
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<td>Emergency Calls (on campus) ............. 541.463.5555</td>
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<td>Employment Services ................ 541.463.5167</td>
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<td>Enrollment and Student Financial Services .......... 541.463.3100</td>
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<td>Family Connections of Lane and Douglas Counties .......... 541.463.3964/1.800.222.3290</td>
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<td>Fitness Education Center* ............ 541.463.3987</td>
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<td>Foundation ......................... 541.463.5135</td>
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<td>High School Connections ............... 541.463.5521</td>
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<td>Institute for Sustainable Practices .......... 541.463.5594</td>
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<td>International Students Counselor ............ 541.463.3200</td>
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<td>KLCC (Radio Station) .................. 541.463.6000</td>
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<td>LaneOnline ........................... 541.463.5893</td>
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<td>Library* ....................... 541.463.5220</td>
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<td>Multicultural Center .............. 541.463.5276</td>
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<td>Music, Dance and Theatre Arts Ticket Office .... 541.463.5202</td>
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<td>Public Safety* (emergency calls) ............. 541.463.5555</td>
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<td>General Public Safety Information ........ 541.463.5558</td>
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<td>Recreational/Club Sports .................. 541.463.5293</td>
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<td>Registrar, Director of Enrollment Services .... 541.463.5686</td>
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<td>Small Business Development Center ........ 541.463.6200</td>
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<td>Student Life and Leadership Development .......... 541.463.5336</td>
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<td>Student Financial Services</td>
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<td>Student Loan Payments (Perkins) ........ 541.463.5610</td>
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<td>Student Legal Services ................ 541.463.5365</td>
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<td>Substance Abuse Prevention .............. 541.463.5178</td>
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<td>TTY (Personnel) ..................... 541.463.3999</td>
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<td>Titan Store ......................... 541.463.5256</td>
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<td>Torch (Student Newspaper) ............. 541.463.5881</td>
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<td>Tours (Main Campus) .............. 541.463.5678</td>
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<td>Transitions to Success .............. 541.463.5837</td>
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<td>Work Study ......................... 541.463.5039</td>
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<td>Workforce Development .............. 541.463.5223</td>
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* These offices and facilities also can be reached during evening hours.
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.

Lane’s Aviation Academy offers two programs at its facilities at Eugene’s Mahlon Sweet Airport: the Flight Technology Program offers ground/flight courses, and the Aviation Maintenance Technician Program offers advanced training at the Return-to-Service facility.

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, Downtown Campus (DCA), and Aviation Academy 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 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).

- Bring your myLane student schedule and photo ID to the Titan Store to get your pass.
- LCC Bus Passes are nontransferable and nonrefundable.
- Lost, stolen or misplaced LCC Bus Passes are replaceable for a non-refundable $10 fee. Bring your photo ID and $10 to the Titan Store to obtain a replacement pass.
- For information on how to obtain an LCC Bus Pass and sticker, go to lanecc.edu/facilities/transportation/lcc-bus-pass.

* subject to change

Parking
Main Campus
Parking is permitted in all parking lots on the main campus. 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 541.463.5555.

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 have their parking validated at the Titan Store and Market when parking at the Overpark and Parcade lots.
- 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
Lane Community College Main Campus

4000 East 30th Avenue • Eugene, Oregon 97405 • (541) 463-3000
Map revised 12/2014

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

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.

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 online admissions application process at lanec.edu/esfs/under-18-students. 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 under the age of 18 attending Lane 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 residence, 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 residence 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 residence 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, either within or 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 lanec.edu.

International Programs Admissions

Building 11, Room 235, 541.463.3434

Lane welcomes students who want to come to the USA to study on student visas to both the International English Program (ESL) and college-level programs. We are excited to be part of educating international students from over 40 different countries each term.

Students applying to Lane need to complete the international application online (processing fee required) and submit the following documents electronically: copy of passport, transcripts from most recent school attended and proof of financial support. Other or original documents may be required in some cases. Go to lanec.edu to apply.

At Lane, a TOEFL score is not required for admission. All students will be tested for English proficiency upon arrival and class placement will be based on the results. Students will be placed in ESL courses or college-level credit classes based on the outcome of the placement test. Students who complete all classes in level F of the ESL program with a C or higher are eligible to take credit classes.

College major and International ESL students are admitted for fall, winter, and spring terms. For additional information on summer term please see lanec.edu/international. International students must be at least 17 years of age to be admitted.

Students who are transferring to Lane from another college, university or language school need to have at least a 2.0 GPA and be eligible to transfer their I-20 to be admitted to our regular program. Students with less than a 2.0 GPA, or those who have been academically disqualified from their current school, will be enrolled in the International “Success Program.” Success Program students will have additional requirements to ensure they get the support they need to succeed. Students who have earned more than 180 quarter credits need to identify a specific degree plan and specific number of credits needed to graduate before they can be admitted. All students must be in status with immigration. Students with a terminated I-20 are not eligible to transfer to Lane.

For more information about Lane’s International ESL Program, see English As A Second Language.

myLane

Use myLane for registration, account payments, viewing schedules, class details, financial aid and grades. Check each term’s class schedule for information on registration dates, getting your “L” number and going online in myLane.
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 hpaplicationcenter@lanecc.edu. Admission Packets are available on Lane’s website, lanecc.edu.

Associate Degree Nursing  Practical Nursing
Dental Hygiene  Dental Assisting
Emergency Medical  Health Information
Technology/Paramedic  Management
Physical Therapist Assistant  Medical Assistant

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 ........................................................ 541.463.5380
Automotive Technology ...................................................... 541.463.5380
Culinary Arts and Food Service Management .................. 541.463.3503
Hotel/Restaurant/Tourism Management ....................... 541.463.3503
Early Childhood Education.................................................... 541.463.3522
Energy Management Technician ........................................ 541.463.3977
Fitness Specialist ............................................................. 541.463.5545
Flight Technology ............................................................. 541.463.4195
Graphic Design (the second year) ....................................... 541.463.5409

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 begins each term using a staged process over several 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 under the myEnrollment tab and When Can I Register link. For information, visit the website at lanecc.edu/calendars/registration-calendar. For questions, email AskLane@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 of 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 the Apply and Enroll tab at the top left, select Steps to Enroll. Choose the appropriate link and complete the steps.
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 degrees can be transferred to four-year colleges. Others do not transfer.

For a list of career technical programs offered at Lane, see pages 52-59. For information about specific programs, see Career and Technical Programs.

**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 pages 52-59.

**Associate of Arts Oregon Transfer Degree (AAOT)**

- Designed for students who want flexibility to transfer to any public Oregon university.
- 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 Oregon public universities

**Associate of Science Oregon Transfer: Business (ASOT-BUS)**

- Designed for students who want flexibility to transfer to any public Oregon university 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 Oregon Transfer: Computer Science (ASOT-CS)**

- Designed for students who want flexibility to transfer to any public Oregon university with computer-focused general education requirements.
- ASOT - CS 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 level division general education requirements, but not guaranteed
- Limited transferability of career technical courses

**Associate of Science: University of Oregon**

- Designed for students who want to transfer to the University of Oregon with general education requirements
- Ensures junior status for registration purposes
- Limited transferability of career technical courses

**Associate of Science: Oregon State University**

- Designed for students who want to transfer to Oregon State University with general education requirements
- Ensures junior status for registration purposes
- 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 (internships) related to a student’s educational and career goals. Co-op 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: lanecc.edu/cooped/ or drop by the Co-op office, Building 19, Room 265 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.

<table>
<thead>
<tr>
<th>Curriculum or Transfer Area</th>
<th>Co-op Ed Coordinators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Jamie Kelsch</td>
</tr>
<tr>
<td>Administrative Office Proff</td>
<td>Jamie Kelsch</td>
</tr>
<tr>
<td>Aerobics</td>
<td>Staff</td>
</tr>
<tr>
<td>Art &amp; Applied Design</td>
<td>Teresa Hughes</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>Chuck Fike</td>
</tr>
<tr>
<td>Aviation Maintenance</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Biology</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Business Management</td>
<td>Jamie Kelsch</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Coaching</td>
<td>Staff</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Computer Information Tech</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Computer Network Operations</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Computer Programming</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Computer Simulation</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Construction</td>
<td>Chuck Fike</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>Caomhin O'Fearthail</td>
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<tr>
<td>Culinary Arts</td>
<td>Joe McCully</td>
</tr>
<tr>
<td>Dental Assisting</td>
<td>Leslie Greer</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>Leslie Greer</td>
</tr>
<tr>
<td>Diesel Technology</td>
<td>Chuck Fike</td>
</tr>
<tr>
<td>Drafting</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>Kathleen Lloyd</td>
</tr>
<tr>
<td>Education (K-14 Teacher Preparation)</td>
<td>Staff</td>
</tr>
<tr>
<td>Electronics Technology</td>
<td>Chuck Fike</td>
</tr>
<tr>
<td>Emergency Medical Technician</td>
<td>Tom Brokaw</td>
</tr>
<tr>
<td>Energy Management</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Engineering (Transfer)</td>
<td>Gerry Meenaghan</td>
</tr>
<tr>
<td>Environmental Studies</td>
<td>Gerry Meenaghan</td>
</tr>
</tbody>
</table>

**Curriculum or Transfer Area**

**Co-op Ed Coordinators**

| Ethnic Studies | Beverly Farfan |
| Flight Technology | Chuck Fike |
| Florence Center: Most Programs | Staff |
| Geography | Staff |
| Geology | Gerry Meenaghan |
| Graphic Design | Teresa Hughes |
| Health Informatics | Gerry Meenaghan |
| Health Occupations | Jamie Kelsch |
| Health Information Management | Shelly Williams |
| Hotel/Restaurant/Tourism Management | Joe McCully |
| Human Services | Christina Salter |
| International Work Experience | Gerry Meenaghan |
| Journalism | Staff |
| Landscape | Teresa Hughes |
| Manufacturing Technology | Chuck Fike |
| Mathematics | Gerry Meenaghan |
| Medical Assisting (MA) | Marit Pittman |
| Multimedia | Teresa Hughes |
| Music | Gerry Meenaghan |
| Nursing | Staff |
| Performing Arts | Teresa Hughes |
| Physical Therapist Assistant (Clinical Affiliation) | Beth Thorpe |
| Physics | Gerry Meenaghan |
| Political Science | Jamie Kelsch |
| Pre-Law | Jamie Kelsch |
| Programming | Gerry Meenaghan |
| Psychology | Beverly Farfan |
| Public Health Education | Staff |
| Science Technology | Staff |
| Service Learning | Beverly Farfan |
| Service Learning Honors | Gerry Meenaghan |
| Simulation and Game Development | Gerry Meenaghan |
| Sociology | Beverly Farfan |
| Sustainability Coordinator | Gerry Meenaghan |
| Water Conservation Technician | Gerry Meenaghan |
| Web Design | Teresa Hughes |
| Welding | Chuck Fike |

**International Cooperative Education**

The International Cooperative Education program, in partnership with IE3 Global (ie3global.org), 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.org or contact Gerry Meenaghan, Cooperative Education Division, Building 19/Room 154, 541.463.5883.
High School Connections
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 learning outcomes. 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 2017-18 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 as well as academic transfer course offerings at the college. These classes fill the gaps where high schools can no longer offer these courses. RTEC provides both accelerated career technical and academic transfer 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 lanec.edu/hsc 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
- articulation agreements with 4-year university honors programs

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. Lane currently offers the following three types of honors classes:
- Honors options: traditional classes in which students can elect to complete honors-level coursework; open to all students.
- Honors sections: each student in the class completes honors-level coursework; open to all students.
- Honors seminars: required for honors students; open only 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 lanec.edu/honors/or email honors@lanec.edu with questions.

LaneOnline
LaneOnline provides courses delivered through technology. The Associate of Arts Oregon Transfer, Associate of General Studies and Associate of Science degrees and significant coursework for other degrees and certificates can be completed through LaneOnline. There is an annual course schedule on the LaneOnline website to assist you in schedule planning.

In order to help easily locate them on the web schedule of classes, online and hybrid courses will have “online” or “hybrid” and the Online/Hybrid icon listed next to the course title. All online courses can be viewed in one location by going to lanecc.edu/laneonline and clicking “Class Schedules” in the left-hand navigation bar, then choosing the desired term.

Online Courses Online courses are 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. Courses can be streamed or purchased 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 lanec.edu/laneonline.

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.

Examples of Courses:
- COOP 280SL Cooperative Education: Service Learning
- HE 255 Global Health
- HS 201 Introduction to Human Services
- HS 228 HIV/AIDS and Other Infectious Diseases

For information, visit lanec.edu/sl or email farfanb@lanec.edu.
Tuition, Fees, Financial Aid and Payment

Noncredit Community Education Classes
For information about costs associated with Continuing Education and Small Business Development Center classes, please contact the respective departments.

Credit Classes
Credit students pay the following charges:

Tuition.................................................................................................................... see below
Class fees...listed next to each class in the online class schedule
Technology fee .......................................................................................... $9 per credit
Online Course fee ....................................................................................... $25 per course
Other fees ........................................................................................................ see below

Tuition*
Residents of Oregon ........................................................ $109.50 per credit hour
Non-residents of Oregon ........................................................ $260 per credit hour
International students:
Fall, winter and spring terms .................................................. $236 per credit hour
Summer term ....................................................................................... $158 per credit hour
*Subject to change pending Board approval

Other Credit Student Fees

ASLCC Student Activity Fee*
Credit students taking main campus classes............................... $56
Student Life (clubs) $1; ASLCC $9.14; BSU $50; OESPRG $3; Longhouse $3;
International Student programs $2; SPA $50; Childcare $1; Athletics and
Recreational Sports $12; TORCH $2.75; Women’s Program $2; Learning Garden
$1.50; Military/Vets Center $1; NASA $6.50; MeCHA $6.50; GSA $6.50; APISU $50;
OSA $25; ASLCC Legal Services $4; Co-op $7.62
*This fee is subject to change pending ASLCC election results.

Credit by Examination and Credit by Assessment
Examination/assessment fee ................................................................. $50 per review
First Time Credit Enrollment Fee ......................................................... $50
Student Health Fee ................................................................................... $45 per term

Transportation Fee (nonrefundable)
Credit students on main campus .................................................. $27 per term
All noncredit classes (included in the Registration fee) and
credit classes not held on the main campus................................. $5 per term

For more information, see the Locations and Maps section on page 8. Fee is
subject to annual increases.

International credit students also pay
International student fee ................................................................. $12 per credit hour

Photo ID ........................................................................................................ $5
A LCC photo ID is not required to attend Lane. It is available to all currently
registered students as an alternate form of photo identification. A card may be
purchased from the Titan Store, Center Building.

Transcript Fee
Transcript ........................................................................................................ $5
Transcript Rush Fee** .............................................................................. $5
Transcripts are now available on myLane at lanec.edu. Fees for transcripts
ordered on myLane will need to be paid with VISA or MasterCard.

** Transcripts that are purchased from Enrollment and Student Financial Services or for transcript requests that indicate that they need rush service will be charged the Transcript Rush Fee.

Average Total Costs
Typical average yearly expenses excluding room and board, transpor-
tation, tools, and personal expenses:

Tuition.................................................................................................................. $4,725
Books* .............................................................................................................. $1,389
Special and Miscellaneous Fees (varies by program) ..................... $567
Student Activity Fees .................................................................................. $168

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.

* Open Educational Resources (OER) Some classes at Lane use Open
Educational Resources (OER). OER takes the place of more expensive textbooks,
reducing the overall cost of taking the class. For more information on classes
using free and low-cost materials, visit lanec.edu/oer or email oer@lanec.edu

Differential Pricing Program
Beginning with the 2003-04 academic year, Lane’s Board of Edu-
cation approved a differential pricing program to preserve some
higher cost career technical programs. Some courses in the follow-
ing programs currently have differential fees: Automotive Technology,
Culinary Arts, Diesel Technology, Manufacturing Technology,
Dental Hygiene, Dental Assistant, EMT/Paramedicine, Medical Assis-
tant, Health Information Management, Nursing, Practical Nursing,
Physical Therapist Assistant, and Respiratory Care.

Determination of Residency

Residents of Oregon
In-District* A student at least 18 years of age or a high school gradu-
ate who has maintained a permanent residency within the col-
lege 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 ini-
tiate the change by printing out a residency form available in the
forms section at lanec.edu/esfs/enrollment-services-forms. Students
must hand the form directly to an Enrollment and Student
Financial Services advisor at Enrollment and Student Financial Ser-
vices, main campus. Residency requirements must be met prior to
the date that a term begins, and residency changes must be made
prior to the start of the term.

In-State (Out-of-District) A student who has maintained a per-
manent 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, and residency changes must be made
prior to the start of the term.

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’s
public universities. Students intending to transfer should research
specific residency requirements at public or private schools to which
they will transfer. For more information, visit the website of the
institution you are interested in attending.
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 dependents who have established permanent residence inside the college district within 90 days prior to the first day of the term and within three years 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 dependents 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, 2016 for the 2016-17 academic year and October 1, 2016 for the 2017-18 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/eligible.

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 may 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 50850, Eugene, OR 97405-0999. 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, late fees will be added to your account balance. If you have questions, visit lanecc.edu/collfin/sponsored-accounts or email 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 the bank account you select via direct deposit. You will receive written directions on how to choose your refund option according to the financial aid disbursement schedule. For more information, go to bankmobilevibe.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, and/or never attend the class.

*By registering, you have automatically accepted the terms of Lane’s Deferred Billing Agreement. See lanecc.edu/copps/documents/accounts-receivable-billing to access the Deferred Billing agreement. Futhermore, 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 lanecc.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 lanecc.edu/esfs/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 lanecc.edu, click on “myFinances” tab.

Once Open Registration begins for the next term, you must pay all money you owe the college for the previous term 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, withheld 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 write.
• 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 lanecc.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.

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 Refund Request online form available at lanec.edu/collfin/student-accounts-refund-request-information/emergency documentation of the circumstances. Petitions received after the eighth week of the term and/or without documentation will be denied.

If you have a documented medical or emergency reason why you dropped your class after the refund deadline, you can fill out the Refund Request online 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 a Refund Request 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.

- Continuing Education, 101 W. 10th Avenue, Eugene OR 97401
- Cottage Grove Center, 1275 South River Road, Cottage Grove, OR 97424
- Florence Center, 3149 Oak Street, Florence, OR 97439
- Small Business Development Center, 101 W. 10th Avenue, Suite 304, 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 Advising
Building 1, Room 103, 541.463.3200, coundept@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 and policies
- 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
- Develop ways to do well in classes and feel satisfied about school

A list of counselors and academic advisors appears on pages 52-54. A list of academic advisors for students who are undecided is located in the Counseling and Advising Center.

Students can access their counselor or academic advisor through the reception desk in the center, by calling 541.463.3200, by emailing coundept@lanecc.edu, by directly contacting the counselor or academic advisor, or through online academic advising resources. Go 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 first term at Lane. These meetings 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 to meet with students considering transfer. Schedules of these visits are available in the Counseling and Advising Center.

Academic Learning Skills
Building 11, Room 245, 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; and Mathematics.

Students who take courses offered by Academic Learning Skills gain confidence and abilities to be successful in college-level classes. Students improve their reading, writing, vocabulary, critical thinking, math, and learning/study skills.

Credit Courses Academic Learning Skills offers courses for college credit in lecture 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; 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 up to 45-quarter credits (or equivalent) to complete developmental courses. For more information, contact Financial Aid at 541.436.3400 or visit lanecc.edu/finaid.

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. Students must meet with the Guided Studies counselor/advisor to set up an academic plan.

Career Center
Building 19, Room 266, 541.463.5223, lanecc.edu/careercenter

The Career Center is open to students, career changers, job seekers, and anyone interested in learning about LCC. Individuals who visit the Career Center have access to a variety of resources, which may include the following:

- Access to computers and the internet
- Assessment of skills, interests, and work values
- Career exploration and development
- Development of an individualized career plan
- Labor market information and job openings
- Skill upgrading and basic skill tutorials
- National Career Readiness Certificate (preparation and testing)
- Information about training programs, including short-term training options
- Job search instruction
- Resume and cover letter development
- Online job search and applications
- Student employment
- Free workshops covering career planning, job search, and personal and professional development topics
Center for Accessible Resources
Building 19, Room 231, 541.463.5150, (voice); TTY Relay: 711
541.463.4739, Fax: accessibleresources@lanecc.edu; lanecc.edu/disability

The Center for Accessible Resources (CAR) coordinates support services and promotes disability awareness in the college community. CAR works with students and faculty to determine appropriate academic adjustments and services for students with qualified documented disabilities. Center for Accessible Resources collaborates with students, staff, faculty, and community members to create inclusive, equitable, diverse and sustainable learning environments for all.

Some of the services that CAR provides are:
• Accommodations for classes, including:
  – Test accommodations (extended time, reduced distraction)
  – Alternate format (computer text with digital audio, Braille)
  – Accessible Technology (computer software and hardware, and other devices)
  – Service Providers (sign language interpreter)
• Consultation, referrals and disability awareness information
• Accessibility information and maps

Child and Family Education Department
Building 24, Room 114, 541.463.5517; lanecc.edu/cfe/lcfc

Child Care

Child and Family Education Department Building 24, Room 114, 541.463.5517; lanecc.edu/cfe/lcfc

Lane Child and Family Center

The Lane Child and Family Center is state licensed and nationally accredited through the National Association for the Education of Young Children and rated five stars by Oregon’s Quality Rating and Improvement System. The preschool/child care program is located on the main campus and provides child care for children 3 months to 5 years of age for student, staff and community families. The center is open 7 a.m.-5:30 p.m., Monday-Friday during the academic year and 7 a.m.-5:30 p.m., Monday-Thursday the first 10 weeks of summer term. The professional teaching staff has extensive education and training in Early Childhood Education. The center is a teacher preparation school for students in the Early Childhood Education program and a cooperative preschool where parents can volunteer in the classroom and reduce their child care fees.

Child care grant and subsidy assistance is available. Students with children enrolled in the Lane Child and Family Center may qualify to receive a CCAMPIS grant, reducing child care expenses by 80 percent. For additional information and fee schedules, contact the Child and Family Education Department office or visit the web, lanecc.edu/cfe/lcfc.

Family Connections, Building 24, 541.463.3954, or 800.222.3290

Family Connections 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. Family Connections provides the following services:

Students Students who are parents can receive personalized referrals to child care options in Lane County 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

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

Lane counselors are highly trained professionals with a variety of credentials. All counselors engage in continuing education to maintain 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, and enhance parenting skills. 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, 8 a.m.-2 p.m. 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/historical 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.

Enrollment and Student Financial Services

Building 1, First Floor, 541.463.3100, 877.520.5391, lanecc.edu/esfs/ or Asklane@lanecc.edu

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

• Admission
• Financial aid
• Assistance
• Registration
• Making credit card, debit, or check payments
• Documents
• Receiving documents from students
• Assistance with myLane on:
  – Registration
  – Ordering official transcripts
  – Making credit card, debit, or check payments
  – Updating address, telephone and email information

Hours of operation (subject to change):

Window hours: Monday-Thursday, 9 a.m. - 12 p.m. and Friday 10:30 a.m - 12 p.m.
Phone hours: Monday-Thursday, 1 - 3:30 p.m. and Friday 12:30 - 2 p.m.

Financial Aid

Building 1, First Floor (Lobby), 541.463.3400, lanecc.edu/finaid, email finaid@lanecc.edu

Financial aid provides assistance to new and returning students in accessing federal and state funding resources to help meet the cost of their educational goals. Staff is available by email, telephone, or in person to help students understand and navigate the financial aid process. Visit lanecc.edu/finaid for office hours and more information about the financial aid process.
Food Services

Foodservices provides several food service options located throughout campus for students, faculty, staff, and visitors.

The LCC Food Court, located on the first floor of the Center Building, features six unique restaurant outlets offering a wide variety of menu options for breakfast, lunch, and dinner. All menus are inspired by using locally sourced materials, scratch cooking methods, and carefully selected products to ensure the highest quality.

**LimeFresh** Simple and healthy South-of-the-border inspired recipes with vibrant and bold flavors of the Latin world

**B & D’s Country Kitchen** Simple yet classic recipes to satisfy your breakfast craving

**Raw Berry** Fresh soups and customizable salads

**Five Spice** Asian inspired wok cooking

**Stonefire** Hand stretched pizza made in our stone-fired oven and made-to-order delicatessen style sandwiches

**Crush Burger** Hot, fresh, and sustainably-sourced burger selections made-to-order

**Blenders Espresso Bar** has two locations, located on the second floor of the Center Building, right above the Food Court as well as in Building 30. Here we feature Global Delights coffee, which is fair-trade certified and 100% organic. Blenders offers a variety of coffee drinks, smoothies and hand-spun shakes, and various grab-n-go items such as pastries, yogurt, pre-made sandwiches, salads, and bottled beverages. Blenders Express is located in Building 16 offers superior drip coffee and fine teas. Grab-n-go items are also available including pastries, yogurts, salads, sandwiches and large selection of bottled beverages.

Our hours of operation vary due to the class schedules so please visit lanecc.edu/food for each outlet’s hours of operation. Every outlet in Food Services accepts cash, all major credit cards, Apple Pay, and Android Pay.

**Health Clinic**

Building 18, Room 101, 541.463.5665

**Health Clinic Staff** Our staff includes family nurse practitioners, physicians, a registered nurse, medical assistants, front office staff, a clinic director, an administrative assistant, and students in Health Professions programs.

**Services** The Lane Community College Health Clinic provides a broad range of health care services to eligible Lane students and staff. Our mission is to provide affordable, efficient, evidence-based health care to the students and employees of Lane Community College. The Health Clinic staff provides holistic care in a collaborative partnership with the patient, with respect for diverse beliefs and needs, assisting the patient to make informed decisions about disease prevention and management of chronic conditions. The clinic provides education to patients to enable them to be better consumers of health care and stewards of their own health.

Appointments can be made by calling the Health Clinic at 541.463.5665. Office visits are free of charge to all eligible students and staff. We offer some additional services at low cost including immunizations, in house labs, program and sports physicals, minor surgeries, and lesion removal. We provide lab services and utilize Quest Diagnostics to process specimens. Quest Diagnostics will bill you or your insurance. Available services include, but are not limited to:

- Diagnosis and treatment of many acute and chronic illnesses
- Sexual health
- STI testing and treatment

**Payment Methods** The Health Clinic bills Trillium and DMAP for all services covered by the Oregon Health Plan. Payments for our fee-based services are due at the time of service (cash, check, or to an open LCC account). Lab costs will bill directly to your insurance or directly to you by Quest Diagnostics if you do not have insurance coverage.

**Confidentiality** All services provided are confidential. A confidential electronic medical record is established for each patient and is protected by Federal and State laws governing the release of these records. The electronic records are stored on a network and servers that are not a part of Lane Community College IT network. The records are only accessible by Health Clinic staff and not by any other department on campus (subject to Federal and State statutes).

**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 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, computer lab with free printing, game room with Xbox One and PS4, 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 many restaurants. Titan Court offers an engaging students first program filled with resident events to encourage social interaction and academic success. For more information, visit titan-court.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.

The Student Life and Leadership Development department is not responsible for housing referrals. You must contact each complex individually.

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
- Village Oaks, 3606 West 18th, Eugene
- Firwood, 2139 West 12th, Eugene
- Students should 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.

College Corner, 704 Mill Street, Springfield
- Contact Jennings Property Management, 541.883.2271 for more information regarding Jennings application process.

University of Oregon housing.uoregon.edu
- 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 registerguard.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

More than 400 international students from over 40 countries attend Lane Community College. Students who are in the United States on an F-1 student visa can study in either the ESL Program or in credit level classes. International Programs helps students create positive and successful educational experiences that include 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, 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, 541.463.5273, library.lanecc.edu

The Library provides resources for the instructional, research, recreational, and general information needs of students, faculty, staff and community residents. The collection includes over 60,000 books and audiovisual materials, over 200,000 e-books, subscriptions to print periodicals, and a wide variety of databases offering online access to over 90,000 periodicals. Remote access to the Library’s catalog and full-text online databases is available to Lane students and staff. The Library’s website is library.lanecc.edu.

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, a 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. 6:30 p.m. Friday. The Library is closed Saturday and Sunday.

Open Educational Resources (OER) Some classes at Lane use Open Educational Resources (OER). OER take the place of more expensive textbooks, reducing the overall cost of taking the class. For more information on classes using free and low-cost materials, visit lanecc.edu/oer or email oer@lanecc.edu

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, symphonic band, jazz ensemble, chamber orchestra, and jazz combos. 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. Lane features a two-year curriculum designed for music majors, a vibrant music technology program, and a variety of general music courses accessible even to beginners. Individual lessons are available for voice and various instruments. Whether students already have some music training or want to get started, they can share the joy of making music at Lane.

Dance Dance students have a variety of performance opportunities throughout the year. Students perform on the main stage in Open Show at the end of each term. Open Show is an informal, supportive and fun performance opportunity where dancers of all levels hone their technical and performing skills. Intermediate and advanced level dancers audition for the Lane Dance Company where

Contact Lane Community College Student Life and Leadership Development, 541.463.5336.
they work with faculty and guest choreographers on original and repertory work for the annual faculty concert Collaborations. The Works Student Dance Concert showcases student choreographers and dancers in a formal theatrical setting. Students move from the studio studying choreography, to the stage where they learn about lighting, costuming, and performance skills. Lane’s dance program is designed for dance majors to transfer to 4-year programs. It is a two-year curriculum based in technique, somatics, creativity and performance that develops the dancer physically, intellectually and emotionally.

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.

The Student Production Association is the producing arm of the Theatre program offering students the opportunity to participate in all aspects of producing a full season of productions. Each year we regularly produce student written plays as well as an independent film. 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 the Titan Store on main campus. Replacement cards are $5. Photo ID’s are available beginning the Tuesday of the second week of each term. For information and hours, contact the Titan Store at 541.463.5256.

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 health and fitness. Staff and students gain access to the center during open 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 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, on campus drop-in opportunities, and discounted admissions to local attractions/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 ten 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, Men’s and Women’s Soccer, and Women’s Volleyball. Teams participate in the Northwest Athletic Conference (NWAC) with 36 other Idaho, 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 Email
Lane Community College has established email as an official means of communication with students.

Your student email account is used by the college to communicate important information such as course changes, information about your program of study, and notifications about academic recognition. You can also use the account for personal correspondence.

Students can get help with their email accounts at the Student Help Desk (SHeD) at 541.463.3333, email shed@lanecc.edu or visit the Student Help Desk in the library.

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 $54.30 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.
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.

Asian Pacific Islander Student Union, Building 1, Room 201F, 541.463.3245

The Asian Pacific Islander Student Union (APISU) mission is to offer a safe space for Asian and Pacific Islander students at Lane Community College (LCC) to meet and network in order to educate, promote, and encourage awareness of Asian Pacific Islander cultures and traditions at LCC and within our community locally, nationally, and internationally.

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.

Connie Mesquita 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.

Connie Mesquita Multicultural Center Edificio 1, sala 201, 541.463.5276

Venga a la sala del Multi-Cultural Center y relajesese, socialice y disfrute te o café en una atmósfera 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.

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.

Movimiento Estudiantil Chicano de Aztlán (MEChA), Building 1, Room 201, 541.463.5144

MEChA is a student organization that promotes higher education, cultura, and historia. MEChA was founded on the principles of self-determination for the liberation of our people. We believe that political involvement and education is the avenue for change in society.

Each word in MEChA symbolizes a great concept in terms of the causa. Movimiento means that the organization is dedicated to the movement to gain self-determination for our people. Estudiantil identifies the organization as a student group for we are part of our Raza’s future. At the heart of the name is the use of the identity: Chicano. At first seen as a negative word, it is now taken for a badge of honor. In adopting a new identity, the students committed to return to the barrios, colonias, or campuses and together, struggle against the forces that oppress their gente. Lastly, the affirmation that we are Indigenous people to this land by placing our movement in Aztlán, the homeland of all peoples from Anahuak.

Movimiento Estudiantil Chicano de Aztlán (MEChA), Edificio 1, Cuarto 201, 541.463.5144

MEChA es una organización estudiantil que promueve la educación superior, histórico y cultural. MEChA fue fundada en los principios de autodeterminación para la liberación de nuestro pueblo. Creemos que la educación y participación política es la vía para el cambio en la sociedad.

Cada palabra de MEChA simboliza un gran concepto en términos de la causa. Movimiento significa que la organización está dedicada a la circulación para obtener la autodeterminación de nuestro pueblo. “Dirección Estudiantil Revolucionario” identifica a la organización como un grupo de estudiantes para nosotros somos una parte de nuestra Raza del futuro. En el corazón de la denominación es el uso de la identidad Chica. A primera vista como una palabra negativa, ahora se toma por una placa de honor. En la adopción de una nueva identidad, los estudiantes comprometidos a regresar a los barrios, colonias o campos y juntos, luchan contra las fuerzas que oprimen a su pueblo. Por último, la afirmación de que somos personas indígenas a esta tierra mediante la colocación de nuestro movimiento en Aztlán, la patria de todas las personas de Anahuak.
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 commited to excellence. There are one-time dues which are payable in several options.

Student Help Desk (SHeD)

Center Building, 2nd Floor, 541.463.3333, shed@lanecc.edu; lanecc.edu/atc/student-help-desk; live online chat and online knowledgebase at help.lanecc.edu

Knowledgeable staff are ready to provide immediate assistance to students with Moodle, myLane, wireless access and other academic technologies. Call, email, drop by, or use the online chat tool. The SHeD is open Monday-Friday, 8 a.m.-5 p.m. The Self-Help Knowledgebase has answers to many commonly asked questions and is available anytime.

Student Publications

Denali Literary and Arts Magazine, Center Building, Room 457, 541.463.5419; Denali Office, Center Building, Room 024, 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.

Denali operates under the guidelines of the LCC Media Commission. A student editor is selected through a competitive hiring process in late spring. The editor may elect to work with a faculty advisor and editorial board. The magazine is published in spring of the following year and distributed free of charge to Lane Community College students and staff, and to the Lane County community.

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 at 541.463.5203.

Torch, Center Building, Room 008, 541.463.5654

The Torch is an award-winning, student-produced, weekly campus newspaper with an average circulation of 2,200 copies. Published by authority of the Lane Community College Board of Education through the LCC Media Commission, it is an independent 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, photography, graphic arts, multimedia, 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. Any Lane County resident is eligible to work for the Torch, should they meet the hiring criteria.

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 may contact the Torch editor at editor@lcctorch.com (541.463.5655) or Charlie Deitz, news and editorial advisor, at 541.463.5654.

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, email: harrism@lanecc.edu or call the center 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
Many kinds of tests and assessments are available: exams conducted for various departments, or the placement tests server, to take General Education Development (GED) tests, screening and inventories need to see a counselor to determine if a test is desirable.

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

- Energy Management Technician
- Building Controls Technician Option
- Renewable Energy Technician Option
- Sustainability Coordinator
- Water Conservation Technician
- Watershed Science 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: Learning Garden Specialist at 541.463.5899 or learninggarden@lanecc.edu
- Oregon Student Public Interest Research Group, contact: 541.463.5166 or osiprg@lanecc.edu

To find current sustainability events and to learn more about sustainability at Lane visit the website at lanecc.edu/sustainability.

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. The Testing Office provides 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 the Testing Office, 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. Students do not need a referral, however, to take General Education Development (GED) tests, screening exams conducted for various departments, or the placement tests for new students in reading, writing and math.

Many kinds of tests and assessments are available:

- Placement tests in reading, writing, and math (Main Campus, Cottage Grove Center and Florence Center).
- GED tests (Main Campus).
- Avant Place - Language placement test in Spanish and French (Main Campus)
- ATI TEAS (Main Campus)
- Vocational interest surveys (Main Campus, Cottage Grove Center and Florence Center).
- Personality inventories (Main Campus, Cottage Grove Center and Florence Center).

Titan Store (Bookstore)

Main Campus: Center Building, 1st floor, 541.463.5256, titanstore.lanecc.edu.

Downtown Campus Titan Store and Market: 975 Charnelton St., Eugene, 541.463.6156, 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.

Visit titanstore.lanecc.edu for store hours and additional information.

TRiO Programs

TRiO Regular

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

TRiO STEM (Science/Technology/Engineering/Math)

Building 1, Room 218, 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 programs offer 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, discuss 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 learning process. 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 more clear. For assistance in specific areas, visit the tutoring centers listed below. For
general questions, contact Liz Coleman, Tutoring Services Coordinator by email at colemanl@lanecc.edu.

**Tutor Central/Writing Center**, Center Building 211 (NE corner)
Tutors assist students in all aspects of writing across the curriculum, math 10/20, and computer skills. Students are motivated to study by our welcoming environment with a grand view of the north hills. Hours are generally Monday-Thursday, 9 am-4 pm and Friday, 9 am-1 pm. Summer hours are 10 am-2 pm. Visit the website for more updated hours. lanecc.edu/tutor/tutor-central.

**Business Resource Center**, Building 19, Room 249, 541.463.5799
brc@lanecc.edu (Fatima Farjé)
The Business Resource Center provides assistance in Accounting, AOP, and other business courses. Generally, it is open Monday-Saturday in fall, winter and spring terms. Summer term it is usually open Monday-Thursday. Schedules can change every term, so please visit lanecc.edu/business-resource-center for the current schedule.

**CIT Computer Lab**, Building 19, Room 135A
The Computer Information Technology Department has tutoring available for all students enrolled in all CS and CIS classes except CS 120 and CIS 101. Tutoring for CS 120 and CIS 101 is available in Tutor Central. Tutors are advanced majors in the field of computing. lanecc.edu/cit/computer-lab.

**Foreign Languages**, Center 450/451
French: Contact Karin Almquist, almquistk@lanecc.edu, 541.463.5140
Spanish: Contact Sylvie Matalon-Florendo, florendos@lanecc.edu, 541.463.5143

**Math Resource Rooms**, MTH 10 - MTH 97, Building 16, Room 163; MTH 105 and up, Building 16, Room 177 (Kristina Holton) 541.463.5399
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/mdta-resource-center

**Online Tutoring** Lane Community College has joined the Western eTutoring Consortium. Lane students are able to access free, online tutoring offered by 46 colleges and universities from seven states. Subjects include writing (synchronous and asynchronous), math, chemistry, physics, statistics, economics, calculus, accounting, psychology and more. Find more details at lanecc.edu/tutor and click on Online Tutoring Resources.

**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

**Writing Center**, Center Building, Room 211, Tutor Central, 541.463.5282 (Casey Reid)
Write with us. We’re here to support you and your writing process on any piece of writing related to college or life. Come early and often. lanecc.edu/lcc/English/writing-center

**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. To become a tutor, contact Amy Gaudia at 541.463.6184, lanecc.edu/volunteertutor/. If you need a tutor, please ask your instructor to help you submit the Tutor Request form.

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**Veterans Services**

**Building 19, Room 233**

**VA Educational Benefits** Building 19, Room 233, 541-463-5663, VAEdBenefits@lanecc.edu, 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 or gibill.va.gov

**Eligibility Rules** VA Education Benefits are complex and students may have choices to make to determine under which benefit chapter they wish to utilize. All who qualify for benefits need to submit an application to the VA through Vets.gov. Students may qualify for more than one VA Benefit Chapter but can only be certified for one at a time. For more information, contact VA Educational Benefits at VAEdBenefits@lanecc.edu.

**Credit Load/Payment** For payment purposes during a standard term, 12 credits is considered full-time. A credit load less than 12 credits is pro-rated at the rate determined by the VA Benefit Chapter the student is receiving. For non-standard terms (summer) or courses that do not follow the standard term length, the actual dates of the course are reported to the VA.

**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 are 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 is 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 is reimbursed retroactively by the VA after completion of a successful term.

**Schedule Changes, Drops and Adds** Veteran benefit students must report all schedule changes occurring after the first week of the term to VAEdBenefits@lanecc.edu. Schedule changes may impact a student’s VA reimbursement, particularly those occurring after the term’s refund period (first week of the term). Students should communicate with the Veterans Services office before making schedule changes, drops, or adds to determine the possible impact on education benefits.

- **Within Drop Period** If courses are dropped any time during the first 30 days 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 drop period 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.
Important Veteran Benefit Information

Course Applicability Only courses satisfying program requirements (or prerequisites) outlined in a student’s curriculum guide or graduation evaluation form can be certified for VA purposes. If a student takes a course that does not fulfill a program requirement, it cannot be certified with the VA. Excessive electives, for example, that are not needed to fulfill a student’s program requirements, cannot be certified with the VA. Payment of tuition and fees for courses that do not meet VA applicability rules are the student’s responsibility. In order for prerequisites to be certified with the VA for major requirements in math, English, and writing, testing results from Testing Services must indicate they are necessary. Students needing remedial courses (below 100 level) must enroll in the in-class version (not online) in order to receive VA benefits for these classes.

Repeating Courses Classes that are successfully completed may not be certified again for VA purposes if they are repeated. However, if a student fails a class, or if a program requires a higher grade than the one achieved in a particular class for successful completion, that course may be repeated. Payment of tuition and fees for courses that cannot be certified with the VA are the student’s responsibility.

Program Changes Students utilizing veterans benefits must keep their program of pursuit current with the Veterans Services Office and on their LCC account. VA Form 1995 or applicable needs to be completed and submitted to Veterans Service at the time a program of pursuit is changed.

Grades Grades are not reported to the VA but completed credits are reported. Students registering for courses but not receiving credit at the end of the term will have an amended certification processed with the VA which may result in a benefit reimbursement adjustment. Students are encouraged to successfully complete all classes for credit to avoid VA overpayment.

Program Planners All students utilizing VA education benefits must have a current term planner approved by an academic advisor and on file within the Veteran Services Office. To ensure course applicability and compliance with VA regulations, each term before classes are certified, the student’s registered classes will be compared to the program planner. Only those classes required for successful program completion will be certified with the VA. Students are encouraged to communicate with academic advising prior to registering for any classes to ensure they are applicable and required for the program they are pursuing. Term planners need to be received in the Veterans Services Office no later than 45 days before the term starts to ensure no disruption of VA education benefits. Any changes to previous term planners will require the student to submit a new term planner.

Certification Timeline Approximately six weeks prior to the start of a term, CH 33 post 9/11 benefit students are pre-certified based on who has registered for classes at that time and have submitted a term planner. Students not registered at the time the pre-certification report is processed will be certified beginning after the first week of the term.

Veterans Services goal is to process all VA certifications within 30 days of the term starting. Students will receive an email from the VA at the time their certification is processed. Students will not be VA certified without an approved term planner, for that term, on file with the Veterans Services Office.

VA Payments Veteran benefit students should monitor their school’s financial account on a regular basis. Failure to monitor and address unpaid charges may result in late fees or the inability to register for upcoming terms. VA and financial aid payments operate within different time periods. Students should not assume when the VA will make payments to them personally or when they will be applied to their school account. Unforeseen circumstances may occur which could delay when the VA processes a payment.

Flight Technology An addendum to the LCC Course Catalog is the Veteran’s Information Bulletin, or VIB, which details current flight training costs (hourly aircraft rental and instructional rates, etc.). This VIB addendum will be provided to the veteran student upon first contact with Veterans Services.

Prior Credits (Transcripts) Students applying for VA benefits at Lane who have attended or received college credits at other schools, using VA benefits or not, must provide official transcripts to Lane within their first term of enrollment. This includes military transcripts (Joint Services Transcript or Community College of the Air Force). Unless all transcripts are submitted to Lane during the student’s first term of enrollment, subsequent enrollment periods cannot be certified. Students’ past enrollments will be checked with the National Student Clearinghouse. Students must avoid taking any classes at Lane that were successfully completed elsewhere. When official transcripts are reviewed, if it is found a student has received VA benefits at Lane for classes that were successfully completed elsewhere, this will be reported to the VA and may result in an adjustment to their education benefits.

Basic Choice Act A student is entitled to pay tuition and fees at Lane Community College at the rates provided for Oregon residents without regard to the length of time the person has resided in this state if the student resides in this state while enrolled in the institution and the student is:

- A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post-9/11 G.I. Bill), of title 38, United States Code, who lives in Oregon while attending a school located in Oregon (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 G.I. Bill benefits (38 U.S.C. § 3319) who lives in Oregon while attending a school located in Oregon (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor’s discharge or release from a period of active duty service of 90 days or more.
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or release as described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in Oregon while attending a school located in Oregon (regardless of his/her formal State of residence).
- Anyone using transferred Post-9/11 G.I. Bill benefits (38 U.S.C. § 3319) who lives in Oregon while attending a school located in Oregon (regardless of his/her formal State of residence) and the transferor is a member of the uniformed service who is serving on active duty.

Lane’s Robert D. Maxwell Student Veterans Center Building 19, Room 233B

The Maxwell Student Veteran Center provides a spot where Lane student veterans can take a breather, study, get questions answered, and make connections with fellow Lane student veterans. The center offers PC and Mac computer stations, Wifi, printer, FAX/copier, study area, dedicated quiet space, and notebook computer loan program, as well as a lounge with hospitality service, current College and community resource information, used textbook and DVD lending library, telephone for local calls, and current veteran-related magazines, periodicals, and literature. The center also serves as home base for the Lane Student Veterans Club.
Gender Equity Center
Building 1, Room 202, 541.463.5353

The Gender Equity Center is a respectful, inclusive, and support-ive environment for people of all gender identities to explore, cele-brate, and educate the campus community about gender equity. Equality assumes that life is a level playing field where everyone gets the same things in order to thrive. The reality is that we all start from different places. Equity means giving people what they need to thrive. The Gender Equity Center provides resources for stu-dents, staff and faculty including educational resources, programs, events and peer mentorship through the Peer Gender Ambassador Program. The Center is committed to being a learning place where all levels of understanding are welcome and respectful dialogue is encouraged. The Center provides space for student groups to meet and gather to build community across the gender spectrum.

Areas of focus include:
- Women in Transition academic program
- LGBTQ support and community building
- Transgender Advocacy and education
- Healthy Masculine Identities
- CTE Advising for non-traditional career fields
- Title IX and Sexual Assault support

The Gender Equity Center is a welcoming, inclusive and vibrant place for students to gather, socialize, and connect. The Center is a supportive entry point to Lane that provides services to assist women to attain their goals.

Services include:
- peer assistance with admission, registration, and applying for financial aid
- information, resources, referrals to campus and community organizations
- student computers

Women in Transition empowers women to become economi-cally self-sufficient and improve their lives through access to edu-cation. Women in Transition offers:
- a learning community comprised of a LifeTransitions course paired with a Career & Life Planning course, focusing on increasing self-esteem, developing healthy relationships, decision-making, goal-setting, and career planning
- advanced classes in LifeTransitions 2 and LifeTransitions 3

The Career and Technical Education (CTE) Mentor provides support for students exploring CTE programs of study that lead to “high demand, high wage” occupations that are non-traditional for their gender. The Mentor provides ongoing support for all students. This includes: supplemental training, outreach, opportunity, leader-ship and career coaching. Emphasis is on recruiting and retain-ing students into pro- grams of study considered “non-traditional” for them.

Degree and Certificate Overview

A new academic year begins every summer term and ends with the following spring term. Every academic year Lane publishes a new catalog describing the policies, academic programs and require-ments in effect during that academic year. The requirements for a program can change and it is the student’s responsibility to know and adhere to the policies and requirements in their governing catalog.

Governing Catalog A student’s governing catalog is the one in effect at the time the student first enrolls in credit classes. All two-year programs in this catalog are valid for five academic years and expire at the end of spring quarter of the fifth academic year; all one-year programs and Career Pathway Certificates are valid for three academic years and expire at the end of spring quarter of the third academic year. If a student has a break in attendance for four terms or more, that student is not eligible to use their origi-nal governing catalog.

Revisions to Catalog While Lane makes every effort to ensure the accuracy of the information in this catalog, changes may be neces-sary. Therefore, this catalog is not a contract between Lane and current or prospective students. If the College approves changes that affect this catalog, the revised requirements will be available online in myGradPlan, in academic departments, as well as in pro-gram advisors’ offices. Students affected by changes should con-tact the appropriate program advisor, program coordinator, or academic dean.

Degrees and Certificates Lane may confer the following degrees and certificates upon satisfactory completion of these prescribed credit programs:

- Degrees and certificates with an* are career technical programs. The title of the career technical program will appear on the degree or certificate when awarded.
  * Associate of Arts Oregon Transfer
  * Associate of Science Oregon Transfer: Business
  * Associate of Science Oregon Transfer: Computer Science
  * Associate of General Studies
  * Associate of Science
  * Associate of Science: Oregon State University
  * Associate of Science: University of Oregon
  * *Associate of Applied Science
  * *One-Year Certificate of Completion:
    * *Two-Year Certificate of Completion:
    * *Career Pathway Certificate of Completion:

Graduation Requirements Candidates for an associate degree or certificate must meet the following requirements:

- Total Credits Complete the number of credits as required for the individual degree, including foundational skills and discipline studies requirements.
- Minimum Credits at Lane Complete at least 24 credits. Career Pathways Certificates can be earned with fewer than 24 credits.
- Grade Point Average Earn a minimum cumulative GPA of 2.00 at Lane
- Pass/No Pass Students may select P/NP option for up to 16 credits toward a degree/certificate, unless specified by AAS or Certificate programs. This does not include courses only offered P/NP.
**Credit-by-Exam and Credit-by-Assessment** Credits used toward a degree/certificate may not exceed 25% of total degree credits.

**Apply for graduation** during the first week of your final term.

**Exceptions for Program Requirements** Lane does not authorize individual departments to waive degree requirements of Foundational Skills and Discipline Studies requirements. An instructional dean, or designee, may use any course on a student's transcript to substitute for any required major course limited up to 10 percent of the program for Career Technical programs only. The Academic Requirements Review Committee will consider petitions to substitute a college General Education requirement.

In accordance with the Rehabilitation Act of 1973, Section 504, colleges must be willing to modify academic requirements to prevent discrimination against eligible students with disabilities. Therefore, qualified students with disabilities may request that appropriate course substitutions be considered as a programmatic accommodation.

**Graduation**

Lane awards degrees and certificates to students at the end of summer, fall, winter, and spring terms. Students apply for their degrees or certificates the term they intend to complete. Application forms are submitted online through myLane.

**Commencement**

Commencement is the annual ceremony Lane has for all graduates who complete their degrees during the year. The commencement ceremony is held in June. There is no separate application to participate in commencement. Students who have applied for graduation and who have not completed their studies can still participate in the ceremony.

**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
- 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 and seeking a Lane degree or certificate should submit official transcripts to Lane from postsecondary institutions previously attended. An official evaluation will be performed by a Lane degree evaluator when a student applies for graduation. Evaluation of credits may only be started after Lane has received your official transcript(s). Students are notified if the evaluation determines that they have not yet met graduation requirements. The results of an evaluation can be viewed in myGradPlan. 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. Under some circumstances, counselors and academic advisors for the program and/or major can offer an unofficial or non-Lane degree/certificate transcript evaluation. However, the official evaluation will occur upon request in your graduation term.

**U.S. Transfer Credits**

- Grades of ‘Pass’ are only transferable when the issuing institution defines the grade as C- or better.
- Coursework at 300 levels or above is reviewed on a case-by-case basis.
- The college or university must have been regionally accredited or be a candidate for regional accreditation when the coursework was taken. See list above.

**International Transfer Credits**

- Coursework listed on non-U.S. transcripts must be evaluated by an agency on the NACES website.
- A course-by-course evaluation 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), and International Baccalaureate (IB). DANTES (DSST) is accepted on a highly limited, case-by-case basis through faculty assessment.
- Military Service Credit, (AARTS, CCAF, CGI, and SMART) is considered for transfer evaluation based on American Council on Education (ACE) recommendation. Lane does not accept non-military ACE recommendations.
- A military Veteran will be granted three credits of PE applicable to all PE/Health degree requirements upon the submission of a DD214 with basic training completion.

**Student Learning Assessment**

For the purpose of assuring a high-quality learning environment, Lane conducts 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**

From a cohort of 670 full-time, first-time in college, degree/certificate-seeking students enrolled fall term 2012: 81 had completed a degree or certificate by August 2015 (12%); 109 had completed a degree or certificate by August 2016 (16%); 96 had transferred to another higher education institution by August 2015 (14%); 130 were still enrolled at Lane by August 2015 (19%).
Outcomes for AAOT, ASOT-Business, ASOT-Computer Science, Oregon Transfer Module

Students earning the AAOT, ASOT-Business, ASOT-Computer Science, or the Oregon Transfer Module 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.
- Explore how culturally-based assumptions influence perceptions, behaviors, and policies.
- Examine the historical bases and evolution of diverse cultural ideas, behaviors, and issues.

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 Human Relations Courses list 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, in 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 (AAOT) degree is designed for students who want to complete the first two years of a college education, with flexibility to transfer to public universities in Oregon. The AAOT is a block-transfer degree, which means a student with an AAOT will have met the lower division general education requirements for baccalaureate degree programs.

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 a public university, or admission to a competitive major, or junior standing in a major. Some transfer institutions also require additional upper-division general education courses.

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

Guidelines

1. Complete a total of 90 credits of college-level coursework (see notes).
2. Complete at least 24 credits at Lane.
3. Foundational Skills and Discipline Studies courses must be a minimum of 3 credits, except for Health/Wellness/Fitness
Any college-level courses that bring total credits to 90 credits including:

1. All Elective courses may be any number of credits.
2. All courses must be passed with a grade of “C,” “P” or better.
3. Maximum 16 credits “P” may be used toward degree. This limit does not include courses only offered P/NP.
4. Cumulative GPA must be at least 2.0 at the time when the Associate of Arts Oregon Transfer is awarded.
5. All courses must be passed with a grade of “C-,” “P” or better.
6. Maximum 16 credits “P” may be used toward degree. This limit does not include courses only offered P/NP.
7. Cumulative GPA must be at least 2.0 at the time when the Associate of Arts Oregon Transfer is awarded.

I. Foundational Skills

Writing
Students taking writing classes of three credits each must take WR 121/WR 121_1, WR 122/WR 122_1, and WR 123 or WR 227. Students taking writing classes of four credits each must take WR 121/WR 121_2, WR 122/WR 122_2, or WR 227. A student must have eight credits of Writing. Meets the Information Literacy requirement.

Oral Communication
One course from the Oral Communication list.

Mathematics
One course in college-level mathematics including MTH 105, MTH 106, MTH 111, MTH 112 or any higher mathematics course.

Health/Wellness/Fitness
One or more courses totaling at least three credits from the Health/Wellness/Fitness list.

II. Discipline Studies

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

Cultural Literacy
One course from any discipline studies courses designated as meeting the statewide criteria for cultural literacy. Courses approved for the Cultural Literacy requirement are marked with an (*) in the lists of courses on the following pages. The credits for such courses only will be counted toward the 90 credits required to complete the degree.

Arts/Letters
Three courses from two or more disciplines from the Arts and Letters list.

Social Science
Four courses chosen from two or more disciplines from the Social Science list.

Science/Math/Computer Science
Four courses from two or more disciplines including at least three laboratory courses in biological and/or physical science from the Science/Math/Computer Science list.

III. Electives

Any college-level courses that bring total credits to 90 credits including:

- Up to 18 credits of Cooperative Education may be included as electives. See Cooperative Education/Internships in the Course Descriptions.
- Up to 12 credits of Individual Music Lessons (MUP) may be included as electives.
- 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 if completed summer 1999 or later.
- Up to 12 credits of Career Technical Education. See the list of Career Technical course prefixes in the Associate of Applied Science Degree section. Career Technical courses fulfilling Health/Wellness/Fitness requirements will not be counted in the 12-credit limit on Career Technical courses. Policies on accepting career technical credits vary at four-year institutions in Oregon. Consult an academic advisor about taking career technical courses as electives.

Notes

1. College-level courses are numbered 100 or higher. Courses numbered 001-099 identify developmental courses (e.g., RD 090), with the exception of ENG 110, 116, 117; MTH 100; RD 115; WR 110, 120, and WR 115 (taken before summer 1999, which are considered developmental.
2. Foundational Skills are open to demonstration of proficiency. Waiver testing is not the same as placement testing. Students should contact the appropriate academic department for information.
3. Second year foreign language courses, but not first year, may be included among courses that count toward the Arts and Letters requirement.
4. University second language admission requirements for transfer students graduating high school in 1997 and thereafter include one of the following:
   a) two terms of a college-level second language with an average grade of C- or above, OR
   b) two years of the same high school-level second language with an average grade of C- or above, OR
   c) satisfactory performance on an approved second language assessment of proficiency.
   d) 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. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements.
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 public universities in Oregon. In such cases, the courses in question will normally transfer as electives.
8. 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 academic advisor or counselor.
The Associate of Science Oregon Transfer in Business (ASOT-Business) degree has business-focused lower division general education requirements accepted by public universities in Oregon, 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 Oregon universities, 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 academic advisor or counselor to select degree requirement courses that align with requirements at an intended transfer institution. Requirements at institutions vary, and elective choices differ depending on the intended transfer institution. Each student must contact the specific 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 transfer institution and the Business school/program.

Guidelines
1. Complete a total of 90 credits college-level coursework (see notes).
2. Complete at least 24 credits at Lane.
3. 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.
4. All Elective courses may be any number of credits.
5. All courses must be passed with a grade of “C-,” “P” or better.
6. Maximum 16 credits “P” may be used toward degree. This limit does not include courses only offered P/NP.
7. Cumulative Lane GPA must be at least 2.0 when the Associate of Science Oregon Transfer: Business degree is awarded.

Note: Many Business programs have competitive admission. Minimum GPA and grades will not generally be high enough to gain admission to competitive programs.

I. Foundational Skills

Writing
Students taking writing classes of three credits each must take WR 121/WR121_H, and WR 122/WR 122_H, and either WR 123 or WR 227. Students taking writing classes of four credits each must take WR 121/WR121_H, and WR 122/WR 122_H or WR 227. A student must have eight credits of Writing. Meets the Information Literacy requirement.

Oral Communications
One course from the Oral Communications list.

Mathematics
Three courses MTH 105 and above, one of which must be MTH 243.

Computer Applications
One computer applications course: CIS 101, CS 120.

II. Discipline Studies

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

Cultural Literacy
One course from any discipline studies courses designated as meeting the statewide criteria for cultural literacy. Courses approved for the Cultural Literacy requirement are marked with an (*) in the discipline studies lists of courses on the following pages. The credits for such courses only will be counted once toward the 90 credits required to complete the degree.

Arts/Letters
Three courses from two or more disciplines from the Arts and Letters list.

Social Sciences
Four courses from two or more disciplines from the Social Science list, with a minimum of two courses in “principles of economics” (to include microeconomics and macroeconomics) at the 200 level.

Science/Math/Computer Science
Four courses from two or more disciplines including at least three laboratory courses in biological and/or physical science from the Science/Math/Computer Science lists.

Note: Only one of the BI 101s, and one of the BI 102s and one of the BI 103s will meet the Science/Math/Computer Science requirements for any Lane Degree. (See the course description for more information.)

III. Business-Specific Requirements

BA 101 Introduction to Business, 4 credits
BA 211 Fundamentals of Financial Accounting and
BA 235 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 public universities in Oregon require BA 226.

BA 206 Management Fundamentals
BA 223 Marketing
BA 244 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

Any college-level courses that will bring total credits to 90 credits including:
- Up to 18 credits of Cooperative Education may be included as electives. See Cooperative Education/Internships in the course descriptions.
- 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 if completed summer 1999 or later.
- Up to 12 credits of Career Technical Education. See the list of Career Technical course prefixes in the Associate of Applied Science Degree section. Career Technical courses fulfilling Health/Wellness/Fitness requirements will not be counted in the 12-credit limit on Career Technical courses. Policies on accepting Career Technical credits vary at the four-year institutions in Oregon. Consult an academic advisor about taking Career Technical courses as Electives.

V. University-Specific Prerequisites

Consult Lane’s Counseling and Advising department for a list of university-specific prerequisites and recommended coursework. Please note: Prerequisites and recommendations of specific institutions may change without notice.
Notes
1. College-level courses are numbered 100 or higher. Courses numbered 001-099 identify developmental courses (e.g. RD 090), with the exception of ENG 110, 116, 117; MTH 100, RD 115, WR 110, 120 and WR 115 (taken before summer 1999), which are considered developmental.
2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or academic 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. University second language admission requirements for transfer students graduating high school in 1997 and thereafter include one of the following:
   a) two terms of a college-level second language with an average grade of C- or above, OR
   b) two years of the same high school-level second language with an average grade of C- or above, OR
   c) satisfactory performance on an approved second language assessment of proficiency.
   d) 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. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements.
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 public universities in Oregon. In such cases, the courses in question will normally transfer as electives.
8. 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 academic advisor or counselor.

Associate of Science Oregon Transfer: Computer Science

The Associate of Science Oregon Transfer in Computer Science (ASOT-CS) degree has computer science-focused lower division general education requirements accepted by public universities in Oregon, and electives tailored for requirements at each intended transfer institution. Students transferring with this degree will have junior standing for registration purposes only.

The ASOT-CS degree does not guarantee admission to Oregon universities, admission to a competitive computer science 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-CS degree.

Each student is strongly encouraged to work with an academic advisor or counselor to select degree requirement courses that align with requirements at an intended transfer institution. Requirements at institutions vary, and elective choices differ depending on the intended transfer institution. Each student must contact the specific computer science school/program early in the first year of an ASOT-CS degree to be advised about additional requirements and procedures for admission consideration to the transfer institution and the school/program.

Guidelines
1. Complete a total of 90 credits of college-level coursework (see notes).
2. Complete at least 24 credits at Lane.
3. 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.
4. All Elective courses may be any number of credits.
5. All courses must be passed with a grade of “C-”, “P” or better except for the following courses, which must be taken for a letter grade and passed with a grade of “C” or better. P/NP will not be accepted.
   • CS 160: Introduction to Computer Science
   • CS 161: Computer Science 1
   • CS 162: Computer Science 2
   • CS 260: Data Structures
6. Maximum 16 credits of “P” may be used toward this degree. This limit does not include courses only offered P/NP.
7. Cumulative Lane GPA must be at least 2.0 when the Associate of Science Oregon Transfer: Computer Science degree is awarded.

NOTE: Many CS programs have competitive admission. Minimum GPA and grades will not generally be high enough to gain admission to competitive programs.

I. Foundational Skills

Writing
Students taking writing classes of three credits each must take WR 121/WR 121_H, and WR 122/WR 122_H, and either WR 123 or WR 227. Students taking writing classes of four credits each must take WR 121/WR 121_H, and WR 122/WR 122_H or WR 227. A student must have eight credits of Writing. Meets the Information Literacy requirement.

Note: WR 227 will meet additional requirements at some CS baccalaureate programs.

Oral Communication
One course from the Oral Communications list.

Mathematics
Two courses: MTH 251 Differential Calculus and MTH 252 Integral Calculus.

Health/Wellness/Fitness
One or more courses totaling at least three credits from the Health/Wellness/Fitness list.

II. Discipline Studies

Cultural Literacy
Courses approved for the Cultural Literacy requirement are marked with (*) in the discipline studies lists of courses on the following pages. The credits for such courses only will be counted once toward the 90 credits required to complete the degree.

Arts and Letters
Three courses from two or more disciplines from the Arts and Letters list.

Social Sciences
Four courses from two or more disciplines from the Social Science list.

Science/Math/Computer Science
Four courses from two or more disciplines including at least three laboratory courses in biological and/or physical science from the Science/Math/Computer Science lists.
**Approved Courses for Oregon Transfer Degrees and Oregon Transfer Module**

Only the following courses meet the AAOT, ASOT-Business, and ASOT-Computer Science Discipline Studies degree requirements.

The following courses also meet Oregon Transfer Module Discipline Studies degree requirements.

**Note:** Courses marked with (*) are approved for the Cultural Literacy requirement.

### Arts and Letters

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARH 200</td>
<td>Graphic Design History</td>
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<tr>
<td>ARH 202</td>
<td>Survey of Western Art</td>
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<td>ARH 203*</td>
<td>Survey of American Indian Art and Architecture: North and Central America</td>
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<tr>
<td>ARH 203_H</td>
<td>Survey of American Indian Art and Architecture: North and Central America-Honors</td>
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<td>ARH 204, 205, 206</td>
<td>History of Western Art</td>
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<tr>
<td>ARH 207*, 208*, 209*</td>
<td>History of Asian Art: India, China, Japan</td>
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<th>Course</th>
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<tbody>
<tr>
<td>ARH 211</td>
<td>Early Modern Art: 1850-1910</td>
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<td>ARH 212</td>
<td>Twentieth Century Art</td>
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<td>ARH 214</td>
<td>Arts of the United States</td>
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<td>ARH 217*</td>
<td>Islamic Art and Architecture</td>
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<td>ARH 218</td>
<td>History of Photography 1700-1910</td>
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<td>ARH 219</td>
<td>History of Photography 1910-1950</td>
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<td>ARH 220</td>
<td>History of Contemporary Photography</td>
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<td>ART 111</td>
<td>Introduction to Visual Arts</td>
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<td>ART 115</td>
<td>Basic Design: Fundamentals</td>
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<td>ART 115GD</td>
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<td>ART 115_H</td>
<td>Basic Design Fundamentals-Honors</td>
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<td>ART 116</td>
<td>Basic Design: Color</td>
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<td>ART 117</td>
<td>Basic Design: 3-Dimensional</td>
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<td>Artist’s Books</td>
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<td>ART 120</td>
<td>Intermediate Artists Books and Pop Up</td>
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<td>ART 131</td>
<td>Introduction to Drawing: 3D</td>
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<td>ART 134</td>
<td>Field Drawing</td>
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**Notes**

1. College-level courses are numbered 100 or higher. Courses numbered 001-099 identify developmental courses (e.g. RD 090), with the exception of ENG 110, 116, 117; MTH 100, RD 115, WR 110, 120 and WR 115 (taken before summer 1999), which are considered developmental.

2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or academic 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. University second language admission requirements for transfer students graduating high school in 1997 and thereafter include one of the following:
   a) two terms of a college-level second language with an average grade of C- or above, OR
   b) two years of the same high school-level second language with an average grade of C- or above, OR
   c) satisfactory performance on an approved second language assessment of proficiency.
   d) 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. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements.

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 public universities in Oregon. In such cases, the courses in question will normally transfer as electives.

8. 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 academic advisor or counselor.

9. Students and academic advisors should recognize that although the ASOT-CS provides and excellent structure for many students intending on pursuing a computer science four year degree, it is not ideal for everyone. Students should consult closely with a computer science advisor at both their community college and the four year transfer institution.

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**V. University-Specific Prerequisites**

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. Please carefully plan this in consultation with university specific CS program requirements. A current guide for university specific, lower division CS requirements is maintained at occc-wiki.org or consult with an advisor from the target university program.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 220</td>
<td>Documentary Photography</td>
</tr>
<tr>
<td>ART 231, 232</td>
<td>Drawing: Intermediate; Perspective</td>
</tr>
<tr>
<td>ART 234</td>
<td>Drawing: Figure</td>
</tr>
<tr>
<td>ART 237</td>
<td>Illustration 1</td>
</tr>
<tr>
<td>ART 247</td>
<td>Sculpture: Site Specific</td>
</tr>
<tr>
<td>ART 248</td>
<td>Sculpture: Stone</td>
</tr>
<tr>
<td>ART 250</td>
<td>Ceramics: Handbuilding</td>
</tr>
<tr>
<td>ART 251</td>
<td>Ceramics: Wheel Throwing</td>
</tr>
<tr>
<td>ART 253</td>
<td>Ceramics: Intermediate</td>
</tr>
<tr>
<td>ART 261, 262</td>
<td>Photography 1, 2</td>
</tr>
<tr>
<td>ART 264</td>
<td>Photography as Method</td>
</tr>
<tr>
<td>ART 270</td>
<td>Printmaking, Intaglio</td>
</tr>
<tr>
<td>ART 271</td>
<td>Printmaking, Relief</td>
</tr>
<tr>
<td>ART 272</td>
<td>Printmaking, Monotype, Collograph</td>
</tr>
<tr>
<td>ART 273</td>
<td>Printmaking, Intermediate Intaglio</td>
</tr>
<tr>
<td>ART 274</td>
<td>Printmaking, Intermediate Relief</td>
</tr>
<tr>
<td>ART 275</td>
<td>Silkscreen</td>
</tr>
<tr>
<td>ART 276</td>
<td>Sculpture: Introduction</td>
</tr>
<tr>
<td>ART 277, 278</td>
<td>Sculpture: Welding; Wood</td>
</tr>
<tr>
<td>ART 281, 284</td>
<td>Painting: Introduction; Intermediate</td>
</tr>
<tr>
<td>ART 292</td>
<td>Landscape &amp; Architectural Photography</td>
</tr>
<tr>
<td>ART 285</td>
<td>Advanced Silkscreen</td>
</tr>
<tr>
<td>ART 291</td>
<td>Sculpture: Metal Casting</td>
</tr>
<tr>
<td>ART 293</td>
<td>Sculpture: Figure</td>
</tr>
<tr>
<td>ART 294, 295</td>
<td>Watercolor: Introduction; Intermediate</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Basic Communication</td>
</tr>
<tr>
<td>COMM 105</td>
<td>Listening and Critical Thinking</td>
</tr>
<tr>
<td>COMM 111</td>
<td>Fundamentals of Public Speaking</td>
</tr>
<tr>
<td>COMM 112</td>
<td>Persuasive Speech</td>
</tr>
<tr>
<td>COMM 115*</td>
<td>Introduction to Intercultural Communication</td>
</tr>
<tr>
<td>COMM 130</td>
<td>Business and Professional Speech</td>
</tr>
<tr>
<td>COMM 218</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>COMM 219</td>
<td>Small Group Discussion</td>
</tr>
<tr>
<td>COMM 220*</td>
<td>Communication, Gender and Culture</td>
</tr>
<tr>
<td>COMM 262</td>
<td>Voice and Articulation</td>
</tr>
<tr>
<td>CW 201, 202, 203*</td>
<td>Chinuk WaWa</td>
</tr>
<tr>
<td>D 160</td>
<td>Dance Composition</td>
</tr>
<tr>
<td>D 251</td>
<td>Looking at Dance</td>
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<tr>
<td>D 256</td>
<td>Anatomy of the Moving Body</td>
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<tr>
<td>D 260</td>
<td>Group Choreography</td>
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<tr>
<td>ENG 100</td>
<td>Children's Literature</td>
</tr>
<tr>
<td>ENG 104, 105, 106</td>
<td>Introduction to Literature: Fiction, Drama, Poetry</td>
</tr>
<tr>
<td>ENG 105. H</td>
<td>Introduction to Literature: Fiction, Drama, Poetry</td>
</tr>
<tr>
<td>ENG 107*, 108*, 109*</td>
<td>Survey of World Literature</td>
</tr>
<tr>
<td>ENG 121</td>
<td>Detective Fiction</td>
</tr>
<tr>
<td>ENG 151*</td>
<td>Black American Literature</td>
</tr>
<tr>
<td>ENG 194</td>
<td>Literature of Comedy</td>
</tr>
<tr>
<td>ENG 195, 196, 197</td>
<td>Introduction to Film Studies</td>
</tr>
<tr>
<td>ENG 201, 203</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>ENG 204, 205</td>
<td>Survey of British Literature</td>
</tr>
<tr>
<td>ENG 213*</td>
<td>Survey of Asian Literature</td>
</tr>
<tr>
<td>ENG 215*</td>
<td>Latino/a Literature</td>
</tr>
<tr>
<td>ENG 217</td>
<td>Reading and Digital Culture</td>
</tr>
<tr>
<td>ENG 218*</td>
<td>Literature of the Islamic World</td>
</tr>
<tr>
<td>ENG 222*</td>
<td>Literature and Gender</td>
</tr>
<tr>
<td>ENG 223*</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>
<tr>
<td>ENG 257*</td>
<td>The American Working Class in Fiction and Non-Fiction</td>
</tr>
<tr>
<td>ENG 259*</td>
<td>African American Poetry, Plays, and Film</td>
</tr>
<tr>
<td>ENG 260*</td>
<td>Introduction to Women Writers</td>
</tr>
<tr>
<td>ENG 261</td>
<td>Science Fiction</td>
</tr>
<tr>
<td>ENG 270</td>
<td>Bob Dylan: American Poet</td>
</tr>
<tr>
<td>ENG 271, 272, 273</td>
<td>Film Genre: Varied Topics</td>
</tr>
<tr>
<td>ES 243*</td>
<td>Native American Studies: Contemporary Indigenous Issues</td>
</tr>
<tr>
<td>ES 244*</td>
<td>Native American Storytelling</td>
</tr>
<tr>
<td>FA 255</td>
<td>Understanding Movies: American Cinema</td>
</tr>
<tr>
<td>FA 264*</td>
<td>Women Make Movies</td>
</tr>
<tr>
<td>FA 265*</td>
<td>African American Film Images</td>
</tr>
<tr>
<td>FR 201, 202, 203</td>
<td>Second Year French</td>
</tr>
<tr>
<td>FR 288*</td>
<td>Study Abroad: French Language and Culture in Normandy</td>
</tr>
<tr>
<td>HUM 100</td>
<td>Humanities Through the Arts</td>
</tr>
<tr>
<td>J 134</td>
<td>Photojournalism</td>
</tr>
<tr>
<td>J 216</td>
<td>Newswriting 1</td>
</tr>
<tr>
<td>MUS 101</td>
<td>Music Fundamentals</td>
</tr>
<tr>
<td>MUS 102</td>
<td>Jazz Fundamentals</td>
</tr>
<tr>
<td>MUS 103*</td>
<td>Songwriting Techniques and Analysis</td>
</tr>
<tr>
<td>MUS 108*</td>
<td>Music in World Cultures</td>
</tr>
<tr>
<td>MUS 111, 112, 113</td>
<td>Music Theory 1</td>
</tr>
<tr>
<td>MUS 118, 119</td>
<td>Music Technology MIDI/Audio 1, 2</td>
</tr>
<tr>
<td>MUS 201, 202, 203</td>
<td>Introduction to Music and Its Literature</td>
</tr>
<tr>
<td>MUS 205*</td>
<td>Introduction to Jazz History</td>
</tr>
<tr>
<td>MUS 211, 212, 213</td>
<td>Music Theory 2</td>
</tr>
<tr>
<td>MUS 261, 262, 263</td>
<td>Music History</td>
</tr>
<tr>
<td>MUS 264*, 265*, 266*</td>
<td>History of Rock Music 1, 2, 3</td>
</tr>
<tr>
<td>PHL 201</td>
<td>Ethics</td>
</tr>
<tr>
<td>PHL 201_H</td>
<td>Ethics-Honors</td>
</tr>
<tr>
<td>PHL 202</td>
<td>Theories of Knowledge</td>
</tr>
<tr>
<td>PHL 203</td>
<td>Theories of Reality</td>
</tr>
<tr>
<td>PHL 205*</td>
<td>Contemporary Moral Issues</td>
</tr>
<tr>
<td>PHL 221</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>REL 160*</td>
<td>World Religions</td>
</tr>
<tr>
<td>REL 201*</td>
<td>Religions of India (Hinduism, Buddhism)</td>
</tr>
<tr>
<td>REL 202*</td>
<td>Religions of China and Japan (Taoism, Confucianism, Buddhism, and Shinto)</td>
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<tr>
<td>REL 203*</td>
<td>Religions of the Middle East (Judaism, Christianity, and Islam)</td>
</tr>
<tr>
<td>REL 211</td>
<td>Introduction to the Bible</td>
</tr>
<tr>
<td>REL 230</td>
<td>Christian Beginnings</td>
</tr>
<tr>
<td>REL 231*</td>
<td>Buddhist Meditation Traditions</td>
</tr>
<tr>
<td>REL 243</td>
<td>Nature, Religion and Ecology</td>
</tr>
<tr>
<td>REL 259</td>
<td>Music History</td>
</tr>
<tr>
<td>REL 260</td>
<td>Introduction to Forensic Science</td>
</tr>
<tr>
<td>REL 261</td>
<td>Chicano Culture</td>
</tr>
<tr>
<td>REL 262</td>
<td>American Indian Studies</td>
</tr>
<tr>
<td>CJ 214</td>
<td>Introduction to Forensic Science</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Principles of Economics: Introduction to Economics</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Economics: Introduction to Macro Economics</td>
</tr>
<tr>
<td>ECON 204</td>
<td>Introduction to International Economics</td>
</tr>
<tr>
<td>ECON 250/ES 250*</td>
<td>Class, Race, and Gender in the U.S. Economy</td>
</tr>
<tr>
<td>ECON 260</td>
<td>Introduction to Environmental and Natural Resource Economics</td>
</tr>
<tr>
<td>ES 101*</td>
<td>Historical Racial and Ethnic Issues</td>
</tr>
<tr>
<td>ES 212*</td>
<td>Chicano/Latino Experience: Political and Ideological Perspectives</td>
</tr>
<tr>
<td>ES 213*</td>
<td>Chicano/Latino Experience: Contemporary</td>
</tr>
<tr>
<td>ES 221*</td>
<td>African American Experience: Down From the Pyramids, Up From Slavery 10,000 BCE-1877</td>
</tr>
<tr>
<td>ES 241*</td>
<td>Native American Experience: Consequences of Native American and European Contact</td>
</tr>
<tr>
<td>ES 244*</td>
<td>Native American Story Telling</td>
</tr>
<tr>
<td>ES 250/ESCON 250*</td>
<td>Class, Race, and Gender in the U.S. Economy</td>
</tr>
<tr>
<td>GEOG 141</td>
<td>Natural Environment</td>
</tr>
<tr>
<td>GEOG 142*</td>
<td>Introduction to Human Geography</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>GEOG 201*</td>
<td>World Regional Geography</td>
</tr>
<tr>
<td>GIS/GEOG 151</td>
<td>Digital Earth</td>
</tr>
<tr>
<td>GIS 245</td>
<td>GIS 1</td>
</tr>
<tr>
<td>GIS 246</td>
<td>GIS 2</td>
</tr>
<tr>
<td>HE 255*</td>
<td>Global Health and Sustainability</td>
</tr>
<tr>
<td>HST 101,102,103</td>
<td>History of Western Civilization</td>
</tr>
<tr>
<td>HST 104*,105*,106*</td>
<td>World History</td>
</tr>
<tr>
<td>HST 155</td>
<td>History of Islam</td>
</tr>
<tr>
<td>HST 195*</td>
<td>History of the Vietnam War</td>
</tr>
<tr>
<td>HST 201,202,203</td>
<td>History of the United States</td>
</tr>
<tr>
<td>HST 207</td>
<td>History of the American West</td>
</tr>
<tr>
<td>HST 208</td>
<td>U.S. History Since 1945</td>
</tr>
<tr>
<td>HST 209</td>
<td>American History: The Civil War</td>
</tr>
<tr>
<td>HST 266*</td>
<td>U.S. Women's History</td>
</tr>
<tr>
<td>HUM 100</td>
<td>Humanities through the Arts</td>
</tr>
<tr>
<td>PHL 201</td>
<td>Ethics</td>
</tr>
<tr>
<td>PHL 201_H</td>
<td>Ethics-Honors</td>
</tr>
<tr>
<td>PHL 202</td>
<td>Theories of Knowledge</td>
</tr>
<tr>
<td>PHL 203</td>
<td>Theories of Reality</td>
</tr>
<tr>
<td>PHL 205*</td>
<td>Contemporary Moral Issues</td>
</tr>
<tr>
<td>PHL 205_H*</td>
<td>Contemporary Moral Issues-Honors</td>
</tr>
<tr>
<td>PHL 211</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>PHL 221_H</td>
<td>Critical Thinking-Honors</td>
</tr>
<tr>
<td>PS 201,202</td>
<td>U.S. Government and Politics</td>
</tr>
<tr>
<td>PS 203</td>
<td>State and Local Government and Politics</td>
</tr>
<tr>
<td>PS 204*</td>
<td>Introduction to Comparative Politics</td>
</tr>
<tr>
<td>PS 205*</td>
<td>International Relations</td>
</tr>
<tr>
<td>PS 208</td>
<td>Introduction to Political Theory</td>
</tr>
<tr>
<td>PS 211</td>
<td>Peace and Conflict Studies: Global</td>
</tr>
<tr>
<td>PS 212</td>
<td>Peace and Conflict Studies: National</td>
</tr>
<tr>
<td>PS 213</td>
<td>Peace and Conflict Studies: Local</td>
</tr>
<tr>
<td>PS 225</td>
<td>Political Ideology</td>
</tr>
<tr>
<td>PS 275</td>
<td>Legal Processes Through Civil Rights and Liberties</td>
</tr>
<tr>
<td>PS 297</td>
<td>Environmental Politics</td>
</tr>
<tr>
<td>PS 297_H</td>
<td>Environmental Politics-Honors</td>
</tr>
<tr>
<td>PSY 201,202,203</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PSY 214</td>
<td>Introduction to Personality</td>
</tr>
<tr>
<td>PSY 215</td>
<td>Lifespan Developmental Psychology</td>
</tr>
<tr>
<td>PSY 216</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>PSY 218*</td>
<td>Multicultural Psychology</td>
</tr>
<tr>
<td>PSY 235,236</td>
<td>Human Development 1,2</td>
</tr>
<tr>
<td>PSY 239</td>
<td>Introduction to Abnormal Psychology</td>
</tr>
<tr>
<td>REL 160*</td>
<td>World Religions</td>
</tr>
<tr>
<td>REL 201*</td>
<td>Religions of India (Hinduism, Buddhism)</td>
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<td>Religions of China and Japan (Taosim, Confucianism, Buddhism, and Shinto)</td>
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<td>Religions of the Middle East (Judaism, Christianity, and Islam)</td>
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<td>Christian Beginnings</td>
</tr>
<tr>
<td>REL 231*</td>
<td>Buddhist Meditation Traditions</td>
</tr>
<tr>
<td>REL 243</td>
<td>Nature, Religion, and Ecology</td>
</tr>
<tr>
<td>SLD 103*</td>
<td>Post-Racial America: Challenges and Opportunities</td>
</tr>
<tr>
<td>SLD 112</td>
<td>Chicano/Latino Leadership 2: Cultural Heroes</td>
</tr>
<tr>
<td>SLD 113</td>
<td>Chicano/Latino Leadership 3: Affirmation and Resistance</td>
</tr>
<tr>
<td>SLD 121*</td>
<td>African American Leadership: History, Philosophy and Practice</td>
</tr>
<tr>
<td>SOC 108A*</td>
<td>Selected Topics: Women's Studies: Women's Bodies, Women's Selves</td>
</tr>
<tr>
<td>SOC 204</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOC 205</td>
<td>Social Stratification and Social Systems</td>
</tr>
<tr>
<td>SOC 206</td>
<td>Institutions and Social Change</td>
</tr>
<tr>
<td>SOC 207*</td>
<td>Women and Work</td>
</tr>
<tr>
<td>SOC 208*</td>
<td>Sport and Society</td>
</tr>
<tr>
<td>SOC 210</td>
<td>Marriage, Family and Intimate Relations</td>
</tr>
<tr>
<td>SOC 211</td>
<td>Social Deviance</td>
</tr>
<tr>
<td>SOC 213*</td>
<td>Race and Ethnicity</td>
</tr>
<tr>
<td>SOC 215*</td>
<td>Social Class</td>
</tr>
<tr>
<td>SOC 216*</td>
<td>Global Social Movements</td>
</tr>
<tr>
<td>SOC 218*</td>
<td>Sociology of Gender</td>
</tr>
<tr>
<td>SOC 225</td>
<td>Social Problems</td>
</tr>
<tr>
<td>SOC 228</td>
<td>Introduction to Environmental Sociology</td>
</tr>
<tr>
<td>WS 101*</td>
<td>Introduction to Women's Studies</td>
</tr>
</tbody>
</table>

### Science, Mathematics, and Computer Science

#### Biological Sciences with laboratories

**Note:** Only one of the BI 101s, and one of the BI 102s, and one of the BI 103s 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.)

<table>
<thead>
<tr>
<th>BI 101,102,103</th>
<th>General Biology (See note below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 102*</td>
<td>Ethnobotany and BI103* General Biology: Global Ecology also will satisfy the Cultural Literacy requirement.</td>
</tr>
<tr>
<td>BI 212</td>
<td>Principles of Biology (formerly BI 201, BOT 201 or Z 201)</td>
</tr>
<tr>
<td>BI 212</td>
<td>Principles of Biology (formerly BOT 202 or Z 202)</td>
</tr>
<tr>
<td>BI 231,232,233</td>
<td>Human Anatomy and Physiology 1,2,3</td>
</tr>
<tr>
<td>BI 234</td>
<td>Introductory Microbiology</td>
</tr>
<tr>
<td>BOT 213</td>
<td>Principles of Botany (formerly BOT 203)</td>
</tr>
<tr>
<td>Z 213</td>
<td>Principles of Zoology (formerly Z 203)</td>
</tr>
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#### Physical Sciences with laboratories

| ASTR 107      | Astronomy +L |
| ASTR 121      | Astronomy of the Solar System +L |
| ASTR 122      | Stellar Astronomy +L |
| ASTR 123      | Cosmology and the Universe +L |
| CH 104        | Introductory Chemistry 1 |
| CH 106        | Introductory Chemistry 3 |
| CH 114        | Introduction to Forensics |
| CH 221,222,223 | General Chemistry 1,2,3 |
| CH 241,242,243 | Organic Chemistry |
| CJA 214       | Introduction to Forensic Science |
| ENSC 181      | Terrestrial Environment |
| ENSC 182      | Aquatic Environment and Population |
| ENSC 183      | Aquatic Environment |
| ENSC 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 148         | Geologic Hazards |
| 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       | GIS 1 |
| GIS 246       | GIS 2 |
| GIS 249       | Raster Analysis and Remote Sensing |
| GIS 260       | Applications in GIS |
| GS 101        | General Science Nature of the Northwest |
| GS 104,105,106 | Physical Science |
| GS 142        | Earth Science: Earth Revealed +L |
| GS 147        | Oceanography +L |
| PH 101,102,103 | Fundamentals of Physics |
| PH 190        | Physics Investigative Lab +L |
| 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, exception is PH 190 which is a science lab with three credits

#### Other Science/Math/Computer Science Courses (including non-laboratory biological and physical sciences)

| ANTH 101 | Physical Anthropology |
| ASTR 107 | Astronomy |
| CH 112   | Chemistry for Health Occupations |
| CJA 214  | Intro to Forensic Science |
| CS 160   | Orientation to Computer Science |
| CS 161 C+, 162 C+ | Computer Science 1,2 |
| CS 233 N | Intermediate Programming: C# |
| CS 233 P | Intermediate Programming: Python |
| CS 260   | Data Structures 1 |
requirement and Arts and Letters category can only be used to fulfill
The same Dance (D) courses listed under both Health/Wellness
Or a combination of 3 credits of PE and/or D Activity classes –
HI 101+
HE 290
HE 275
HE 262
HE 255
HE 250
HE 240
HE 232
HE 209
HE 222
HE 200
HE 152
HE 125
HE 112
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D 256
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D 3
D 2
D 1

Associate of Science Degree

For students intending to transfer, the Associate of Science (AS) degree may best match general education requirements of some four-year colleges or universities. Requirements of the AS include a rigorous general education program balanced with electives.

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 AS is NOT a block transfer degree. It does not guarantee that a student will have met the lower division general education requirements for baccalaureate degree programs.

Each student is strongly encouraged to work with an academic advisor to match career goals with an appropriate major and to select appropriate courses at an intended transfer institution.

Guidelines
1. Complete a total of 90 credits of college-level coursework (see notes).
2. Complete at least 24 credits at Lane.
3. 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.
4. All Elective courses may be any number of credits.

Omitting Table
5. Pass all Foundational Skills courses with a grade of “C-” or “P” or better. Pass all Discipline Studies and Elective courses with a grade of “D-” or “P” or better.
6. Maximum 16 credits “P” may be used toward degree. This limit does not include courses only offered P/NP.
7. Cumulative GPA must be at least 2.0 when the Associate of Science degree is awarded.

I. Foundational Skills

Writing
Two courses (minimum 3 credits each): WR 115 (summer 1999 or after), WR 121/WR 121_H, WR 122/WR 122_H, WR 123, WR 227

Mathematics
One course (minimum 4 credits): MTH 105 or higher

Health/Wellness/Fitness

Physical Education
Three credits: one course required from the AAOT list of activity classes under Health/Wellness/Fitness, plus two additional credits from PE 181-298. One credit from PE 186W accepted to meet this requirement. OR

Health Education
One course from this list: EXMS 214, FN 225, HE 152, 209, 222, 240, 250, 265, 262, 275 or 290; or HE 125, 252 (summer 1997 or later), HI 101

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

Arts and Letters
Three courses from the following: Art, Art History, Communication, Dance, Effective Learning, Film Arts, Languages (CW, FR, SPAN, ASL, and other Transfer Languages), Humanities, Journalism, Literature, Music, Philosophy, Religion, Theater Arts, Writing, CW 201-203, ES 244

Social Science
Three courses from the following: Anthropology, Career Guidance, Economics, Ethnic Studies, Geographic Information Science, Geography, History, Human Development, Human Services, Philosophy, Political Science, Psychology, Religion, Sociology, Women’s Studies.

Science/Math/Computer Science
Nine courses from the following: Astronomy, Biology, Botany, Chemistry, Computer Science (CS prefix courses only, not CIS), Engineering, Geographic Information Science (GIS), Geology (G or ENSC), Mathematics (MTH 105 and higher), Physical Science (GS prefix), Physics, Zoology; ANTH 101, CJA 214, DA 110, DFR 205, DFR 207, ET 129, ET 130, ET 131, ET 145, ET 146, ET 151, ET 152, FT 113, GEOG 141, HO 150, HO 152, PSY 217, WST 230.

NOTE: Only one of the BI 101s, and one of the BI 102s and one of the BI 103s will meet the Science/Math/Computer Science requirements for any Lane Degree. (See the course description for more information).

III. Electives
Any college-level courses that bring total credits to 90 credits, including:
- Up to 18 credits of Cooperative Education may be included as electives. See Cooperative Education/Internships in the Course Descriptions.
- 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).
- Up to 12 credits of Career Technical Education. See the list of Career Technical course prefixes in the Associate of Applied Science Degree section. Career Technical courses fulfilling Health/Wellness/Fitness requirements will not be counted in the 12-credit limit on Career Technical courses. Policies on accepting Career Technical credits vary at the four-year institutions in Oregon. Consult an academic advisor about taking Career Technical courses as Electives.

Notes
1. College-level courses are numbered 100 or higher. Courses numbered 001-099 identify developmental courses (e.g. RD 090), with the exception of ENG 110, 116, 117; MTH 100, RD 115, WR 110, 120 and WR 115 (taken before summer 1999), which are considered developmental.
2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or academic advisor. Waiver testing is not the same as placement testing.
3. University second language admission requirements for transfer students graduating high school in 1997 and thereafter include one of the following:
   a) two terms of a college-level second language with an average grade of C- or above, OR
   b) two years of the same high school-level second language with an average grade of C- or above, OR
   c) satisfactory performance on an approved second language assessment of proficiency.
   d) demonstrated proficiency in American Sign Language meets this second language admission requirement.
4. Credit-by-Exam and Credit-by-Assessment may comprise up to 25% of total degree credits.
5. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements.
6. 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 public universities in Oregon. In such cases, the courses in question will normally transfer as electives.
7. 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 academic advisor or counselor.

Associate of Science: University of Oregon

For students intending to transfer, the following Associate of Science (AS) degree may best match general education requirements for the University of Oregon (UO). Requirements of the AS degree include a rigorous general education program balanced with electives.

The AS-UO is NOT a block transfer degree. It does not guarantee that a student will have met the lower division general education requirements for baccalaureate degree programs. For some students planning to transfer to the UO, the AS-UO may be a better option than the AAOT.

Each student is strongly encouraged to work with an academic advisor to match career goals with an appropriate major and to select appropriate courses for transfer to the UO.

Guidelines
1. Complete a total of 90 credits of college-level coursework (see notes).
2. Complete at least 24 credits at Lane.
3. Foundational Skills and Discipline Studies courses must be a minimum of 3 credits.
4. All Elective courses may be any number of credits.
5. Pass all Foundational Skills courses with a grade of “C-” or “P” or better. Pass all Discipline Studies and Elective courses with a grade of “D-” or “P” or better.
6. Maximum 16 credits “P” may be used toward degree. This limit does not include courses only offered P/NP.
7. Cumulative GPA must be at least 2.0 when the Associate of Science: University of Oregon degree is awarded.

**I. Foundational Skills**

**Writing**
Two courses (minimum 3 credits each): WR 121/WR 121_H and either WR 122/WR 122_H or WR 123

**Mathematics**
One course (minimum of 4 credits): MTH 105 or higher

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

Each Discipline Studies area must include:
1. At least two courses from one subject area and at least two different subject areas
2. No more than three courses from the same subject area.

**Arts/Letters**
15 credits from the Arts and Letters: AS-UO list

**Social Science**
15 credits from the Social Science: AS-UO list

**Science/Math/Computer Science**
15 credits from the Science/Math/Computer Science: AS-UO list

NOTE: Only one of the BI 101s, and one of the BI 102s and one of the BI 103s will meet the Science/Math/Computer Science requirements for any Lane Degree. (See the course description for more information).

**III. Electives**
Any college-level courses that bring total credits to 90 credits. No more than 24 total credits of electives may be used from the following areas, with no more than 12 credits in any one area:
1. Career Technical courses. See the list of Career Technical course prefixes in the Associate of Applied Science section.
2. PE and dance activity courses (Dance majors see Academic Advising team for limitations in major requirements)
3. Studio instruction in music – MUP (Music majors see Academic Advising team for limitations in major requirements)
4. Cooperative Education and supervised field experiences
5. WR 115 may be included in the degree as an elective if completed summer 1999 or later.

**Notes**
1. College-level courses are numbered 100 or higher. Courses numbered 001-099 identify developmental courses (e.g. RD 090), with the exception of ENG 110, 116, 117; MTH 100, RD 115, WR 110, 120 and WR 115 (taken before summer 1999), which are considered developmental.
2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or academic advisor. Waiver testing is not the same as placement testing.
3. University second language admission requirements for transfer students graduating high school in 1997 and thereafter include one of the following:
   a) two terms of a college-level second language with an average grade of C- or above, OR
   b) two years of the same high school-level second language with an average grade of C- or above, OR
   c) satisfactory performance on an approved second language assessment of proficiency.
   d) demonstrated proficiency in American Sign Language meets this second language admission requirement.
4. Credit-by-Exam and Credit-by-Assessment may comprise up to 25% of total credits.
5. Repeatable courses may be used once to meet Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements. See limitations under Electives for maximum credits allowed for subject categories.
6. 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 public universities in Oregon. In such cases, the courses in question will normally transfer as electives.
7. 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 academic advisor or counselor.
8. The UO only allows one course in a student’s major subject to count in a Discipline area. Example: Biology majors can only count one Biology course in the Science/Math/CS area at the UO.
9. A student selecting this transfer option still must meet the UO admission requirements, including course standing, grade point average and foreign language.

**Note:** UO requires a minimum 2.25 GPA in all transfer credits for Oregon Residents (2.5 for nonresidents) for admission purposes.

**Group I: ARTS AND LETTERS: AS-UO**
* Courses used to fulfill the Arts and Letters group requirements cannot also be used to meet the foreign language requirements for the B.A. degree

**American Indian Language**
CW 201, 202, 203* Chinuk Wawa

**Art History**
ARH 111 Intro to Visual Arts
ARH 113 History of Photography 1
ARH 200 Graphic Design History
ARH 202 Survey of Western Art
ARH 203 Surv American Indian Art & Arch
ARH 203, 204 Surv American Indian Art & Arch-Honors
ARH 204, 205, 206 History of Western Art
ARH 207 Arts of India
ARH 208 Arts of China
ARH 209 Arts of Japan
ARH 211, 212 Survey of Visual Arts: Modern Art
ARH 213 History of Photography 2
ARH 214 Arts of the United States
ARH 217 Islamic Art
ARH 265 Studies in Contemporary Photography

**Communication**
COMM 100 Basic Communication
COMM 111 Public Speaking
COMM 115 Intro Intercultural Communication
COMM 218 Interpersonal Communication
COMM 220 Communication, Gender & Culture

**Dance**
D 251 Looking at Dance

**English**
ENG 100 Children's Literature
ENG 104, 105, 106 Introduction to Literature
ENG 107 Survey of World Literature
ENG 109 Survey of World Literature
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>ENG 121</td>
<td>Detective Fiction</td>
</tr>
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<td>ENG 151</td>
<td>Black American Literature</td>
</tr>
<tr>
<td>ENG 194</td>
<td>Literature of Comedy</td>
</tr>
<tr>
<td>ENG 195, 196, 197</td>
<td>International Film Histories</td>
</tr>
<tr>
<td>ENG 201, 203</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>ENG 204, 205</td>
<td>Survey of British Literature</td>
</tr>
<tr>
<td>ENG 213</td>
<td>Survey of Asian Literature</td>
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<tr>
<td>ENG 215</td>
<td>Latino/a Literature</td>
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<tr>
<td>ENG 222</td>
<td>Literature and Gender</td>
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<tr>
<td>ENG 232</td>
<td>Native American Literature</td>
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<td>ENG 240</td>
<td>Nature Literature</td>
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<tr>
<td>ENG 243</td>
<td>Native American Autobiography</td>
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<td>ENG 244</td>
<td>Asian American Literature</td>
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<tr>
<td>ENG 250</td>
<td>Intro. to Folklore &amp; Mythology</td>
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<tr>
<td>ENG 253, 254</td>
<td>Survey of American Literature</td>
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<td>ENG 257</td>
<td>American Working Class Lit./Film</td>
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<td>ENG 260</td>
<td>Intro. to Women Writers</td>
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<td>ENG 261</td>
<td>Science Fiction</td>
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<td>ENG 270</td>
<td>Bob Dylan: American Poet</td>
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<td>ENG 271, 272, 273</td>
<td>Film: Horror/Comedy/Film Noir</td>
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<td>FA 255**</td>
<td>Underst Movies: American Cinema</td>
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<td>FA 263**</td>
<td>Film in the Fifties</td>
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<td>FA 264**</td>
<td>Women Make Movies</td>
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<tr>
<td>FR 201, 202, 203*</td>
<td>Second Year French</td>
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<td>HUM 100</td>
<td>Humanities Through the Arts</td>
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<td>MUS 101</td>
<td>Music Fundamentals</td>
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<td>MUS 102</td>
<td>Jazz Fundamentals</td>
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<td>MUS 201, 202, 203</td>
<td>Intro to Music and Its Literature</td>
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<td>MUS 205</td>
<td>Intro to Jazz History</td>
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<td>MUS 261, 262, 263</td>
<td>Music History</td>
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<td>Ethics</td>
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<td>PHL 205</td>
<td>Contemporary Moral Issues</td>
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<td>PHL 205_H</td>
<td>Contemporary Moral Issues-Honors</td>
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<td>PHL 221</td>
<td>Critical Thinking</td>
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<td>PHL 221_H</td>
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<td>REL 160</td>
<td>World Religions</td>
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<td>REL 203</td>
<td>Religions of Middle East</td>
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<td>REL 211</td>
<td>Intro to the Bible</td>
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<td>REL 231</td>
<td>Buddhist Meditation Traditions</td>
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<tr>
<td>SPAN 201, 202, 203*</td>
<td>Second Year Spanish</td>
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**Group II: SOCIAL SCIENCE: AS-UO**

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<td>ANTH 102_H</td>
<td>World Archaeology-Honors</td>
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<tr>
<td>ANTH 103</td>
<td>Cultural Anthropology</td>
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<tr>
<td>ANTH 227</td>
<td>Prehistory of Mexico</td>
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<td>ANTH 228</td>
<td>Cultures of Mexico</td>
</tr>
<tr>
<td>ANTH 229</td>
<td>Chicano Culture</td>
</tr>
<tr>
<td>ANTH 231, 232, 233</td>
<td>American Indian Studies</td>
</tr>
<tr>
<td>BA 101</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Introduction to Economics</td>
</tr>
<tr>
<td>ECON 201, 202</td>
<td>Intro to Micro/Macroeconomics</td>
</tr>
<tr>
<td>ECON 204</td>
<td>Intro to International Economics</td>
</tr>
<tr>
<td>ECON 250</td>
<td>Class, Race, Gender US Econ</td>
</tr>
<tr>
<td>ECON 260</td>
<td>Intro. Environ. &amp; Nat. Resources</td>
</tr>
<tr>
<td>ES 101, 102</td>
<td>Hist/Contemp Racial/Ethnic Issues</td>
</tr>
<tr>
<td>ES 211, 212, 213</td>
<td>Chicano/Latino Experience</td>
</tr>
<tr>
<td>ES 221, 222, 223</td>
<td>African American Experience</td>
</tr>
<tr>
<td>ES 231, 232, 233</td>
<td>Asian American Experience</td>
</tr>
<tr>
<td>ES 241, 242, 243</td>
<td>Native American Experience</td>
</tr>
<tr>
<td>ES 244</td>
<td>Native American Story Telling</td>
</tr>
<tr>
<td>ES 250</td>
<td>Class/Race/Gender in US Econ</td>
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<tr>
<td>GEG 142</td>
<td>Intro to Human Geography</td>
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<tr>
<td>GEG 201</td>
<td>World Regional Geography</td>
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<tr>
<td>GEG 216</td>
<td>Geography of Pacific Asia</td>
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<tr>
<td>GIS 151</td>
<td>Digital Earth</td>
</tr>
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<td>HST 101, 102, 103</td>
<td>History of Western Civilization</td>
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<tr>
<td>HST 104, 105, 106</td>
<td>World History</td>
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<td>HST 155</td>
<td>History of Islam</td>
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<td>HST 195</td>
<td>History of the Vietnam War</td>
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<td>HST 201, 202, 203</td>
<td>History of the United States</td>
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<td>HST 207</td>
<td>History of the American West</td>
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<td>HST 208</td>
<td>US History Since 1945</td>
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<tr>
<td>HST 209</td>
<td>American History: The Civil War</td>
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<td>HST 266</td>
<td>US Women's History</td>
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<tr>
<td>PS 104</td>
<td>Problems in US Politics / Film 1</td>
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<tr>
<td>PS 105</td>
<td>Problems in US Politics / Film 2</td>
</tr>
<tr>
<td>PS 201, 202</td>
<td>American Gov &amp; Politics</td>
</tr>
<tr>
<td>PS 203</td>
<td>State and Local Government</td>
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<td>PS 204</td>
<td>Intro to Comparative Politics</td>
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<td>PS 205</td>
<td>International Relations</td>
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<tr>
<td>PS 208</td>
<td>Intro to Political Theory</td>
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<tr>
<td>PS 211, 212, 213</td>
<td>Peace/Conflict: Global/National/Local</td>
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<td>PS 225</td>
<td>Political Ideology</td>
</tr>
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<td>PS 275</td>
<td>Legal Processes</td>
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<td>PSY 202</td>
<td>General Psychology</td>
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<td>PSY 214</td>
<td>Intro to Personality</td>
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<tr>
<td>PSY 215</td>
<td>Lifespan Develop Psychology</td>
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<td>PSY 216</td>
<td>Social Psychology</td>
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<tr>
<td>PSY 218</td>
<td>Multicultural Psychology</td>
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<tr>
<td>PSY 231</td>
<td>Human Sexual Behavior</td>
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<tr>
<td>PSY 235</td>
<td>Human Development I</td>
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<tr>
<td>PSY 239</td>
<td>Intro to Abnormal Psychology</td>
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<td>REL 201</td>
<td>Religions of India</td>
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<td>REL 230</td>
<td>Christian Beginnings</td>
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<td>REL 243</td>
<td>Nature, Religion &amp; Ecology</td>
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<td>SOC 108A</td>
<td>Select Topics; Women's Studies/Bodies/Selves</td>
</tr>
<tr>
<td>SOC 204</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOC 205</td>
<td>Social Stratification and Social Systems</td>
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<tr>
<td>SOC 206</td>
<td>Institutions &amp; Social Change</td>
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<tr>
<td>SOC 207</td>
<td>Women and Work</td>
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<tr>
<td>SOC 208</td>
<td>Sport and Society</td>
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<tr>
<td>SOC 210</td>
<td>Marriage, Family &amp; Intimate Relations</td>
</tr>
<tr>
<td>SOC 211</td>
<td>Social Deviance</td>
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<tr>
<td>SOC 213</td>
<td>Race &amp; Ethnicity</td>
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<td>SOC 215</td>
<td>Social Class</td>
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<td>Global Social Movements</td>
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<td>SOC 218</td>
<td>Sociology of Gender</td>
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<tr>
<td>SOC 225</td>
<td>Social Problems</td>
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**Women's Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS 101</td>
<td>Intro to Women's Studies</td>
</tr>
</tbody>
</table>
GROUP III: SCIENCE/MATH/COMPUTER SCIENCE: AS-UO

* Students may receive credit for only one Calculus 1 class and one Calculus 2 class.
** Courses used to fulfill the Science group requirement cannot also be used to meet mathematics or computer and information science requirements for the B.S. degree.

### Anthropology
- ANTH 101: Physical Anthropology

### Astronomy
- ASTR 107: Astronomy
- ASTR 121: Astronomy of Solar System
- ASTR 122: Stellar Astronomy
- ASTR 123: Cosmology and the Universe

### Biology
- BI 101 E to K: General Biology
- BI 101_H: General Biology-Honors
- BI 102 B to J: General Biology
- BI 102_H: General Biology-Honors
- BI 103 A to M: General Biology
- BI 112: Cell Biology for Health Occupations
- BI 211, 212: Principles of Biology 1, 2
- BI 231, 232, 233: Human Anatomy & Physiology 1, 2, 3
- BI 234: Introductory Microbiology
- BOT 213: Principles of Botany
- Z 213: Principles of Zoology

### Chemistry
- CH 104: Introduction to General Chemistry
- CH 106: Intro to Organic and Biological Chemistry
- CH 112: Chemistry for Health Occupations
- CH 114: Introduction to Forensic Chemistry
- CH 221, 222, 223: General Chemistry 1, 2, 3
- CH 241, 242, 243: Organic Chemistry 1, 2, 3

### Computer and Information Science**
- CS 160: Orientation to Programming
- CS 161C+, 162C+: Computer Science 1, 2
- CS 234G: Advance C++ Game Programming
- CS 234N: Advanced Programming: C#
- CS 260: Data Structures 1

### Environmental Science
- ENSC 181, 182, 183: Environ: Terrestrial/Atmosphere/Aquatic
- ENSC 184: Global Climate Change

### Geography
- GEOG 141: Natural Environment

### Geology
- G 101, 102, 103: Geology: Earth Interior/Surface/Evolving
- G 146: Rocks and Minerals
- G 147: National Parks Geology
- G 148: Geologic Hazards
- G 201, 202, 203: Geology: Earth Mat./Surface/Evolution

### General Sciences
- GS 101: General Science: Nature of the NW
- GS 104, 105, 106: Physical Science
- GS 109: Meteorology
- GS 142: Earth Science: Earth Revealed
- GS 147: Oceanography

### Health Occupations
- HO 150: Human Body Systems 1
- HO 152: Human Body Systems 2

### Mathematics**
- MTH 105: Intro to Contemporary Math
- MTH 211, 212, 213: Fundamentals of Elementary Math 1, 2, 3
- MTH 231, 232, 233: Discrete Mathematics
- MTH 241, 242*: Elementary Calculus 1, 2
- MTH 243: Intro to Probability and Statistics
- MTH 251, 252, 253*: Calculus 1, 2, 3
- MTH 265: Statistics for Scientists / Engineers

### Physics
- PH 101, 102, 103: Fundamentals of Physics

### General Physics
- PH 201, 202, 203: General Physics
- PH 211, 212, 213: General Physics with Calculus

### Psychology
- PSY 201: General Psychology
- PSY 212: Theoretical Principles of Learning
- PSY 217: Intro to Experimental Psychology

### MULTICULTURAL REQUIREMENT: AS-UO
Bachelor’s degree candidates at the University of Oregon, including those with Associate of Arts Oregon Transfer degrees, must complete one course in two of the following categories: (A) American Cultures (AC); (B) Identity, Pluralism and Tolerance (IP); and (C) International Cultures (IC). A minimum of 6 credits in approved courses must be earned. Courses that satisfy this requirement are listed below.

### Area A: American Cultures
- ANTH 229: Chicano Culture
- ANTH 231, 232, 233: American Indian Studies
- ART 203: Surv American Indian Art & Arch
- ART 203_H: Surv American Indian Art & Arch-Honors
- ENG 151: Black American Literature
- ENG 232: Native American Literature
- ENG 259: Afr-Am. Poetry, Plays and Film
- ES 101, 102: Historical/Contemporary Racial Ethnic
- ES 211, 212: Chicano/Latino Experience
- ES 221, 222, 223: African American Experience
- ES 231, 232, 233: Asian American Experience
- ES 241, 242, 243: Native American Experience
- ES 244: Native American Story Telling
- MUS 102: Jazz Fundamentals
- MUS 205: Intro to Jazz History
- MUS 264, 265, 266: History of Rock Music I, II, III
- SOC 225: Social Problems

### Area B: Identity, Pluralism and Tolerance
- COMM 115: Intro to Intercultural Communications
- COMM 220: Communication, Gender & Culture
- ECON 250: Class, Race, & Gender U.S. Economy
- ENG 222: Literature and Gender
- ENG 250: Introduction to Folklore & Myth
- ENG 260: Introduction to Women Writers
- ES 213: Chicano/Latino Experience
- ES 250: Class, Race, & Gender U.S. Economy
- FA 264: Women Make Movies
- HST 155: History of Islam
- HST 195: History of the Vietnam War
- HST 266: US Women’s History
- REL 203: Religions of Middle East
- SOC 108A: Selected Topics in Women’s Studies
- SOC 204: Intro to Sociology
- SOC 205: Social Stratification & Social Systems
- SOC 207: Women and Work
- SOC 213: Race and Ethnicity
- SOC 215: Social Class
- SOC 218: Sociology of Gender

### Area C: International Cultures
- ANTH 103: Cultural Anthropology
- ANTH 227: Prehistory of Mexico
- ANTH 229: Cultures of Mexico
- ART 207, 208, 209: History of Asian Art
- ART 217: Islamic Art
- ENG 107, 109: Survey of World Literature
- ENG 213: Survey of Asian Literature
- ENG 215: Latino/a Literature
- ENG 244: Asian American Literature
- GEOG 142: Intro Human Geography
- GEOG 201: World Regional Geography
- GEOG 216: Geography of Pacific Asia
- HST 104, 105, 106: World History
- PSY 218: Multicultural Psychology
- REL 160: World Religions
- REL 201: Religions of India
- REL 202: Religions of China and Japan
- SOC 216: Global Social Movements
Associate of Science: Oregon State University

For students intending to transfer, the following Associate of Science (AS) degree may best match general education requirements for Oregon State University (OSU). Requirements of the AS degree include a rigorous general education program balanced with electives.

The AS-OSU is not a block transfer degree. It does not guarantee that a student will have met the lower division general education requirements for baccalaureate degree programs. For some students planning to transfer to OSU, the AS-OSU may be a better option than the AAOT.

Each student is strongly encouraged to work with an academic advisor to match career goals with an appropriate major and to select appropriate courses for transfer to OSU.

Guidelines

1. Complete a total of 90 credits of college-level coursework (see notes).
2. Complete at least 24 credits at Lane.
3. Skill Courses and Perspectives Courses must be a minimum of 3 credits.
4. All Elective courses may be any number of credits.
5. Pass all Skills Courses with a grade of “C-” or “P” or better. Pass all Perspectives Courses and Elective courses with a grade of “D-” or “P” or better.
6. Maximum 16 credits “P” may be used toward degree. This limit does not include courses only offered P/NP.
7. No single course can be used to satisfy more than one area of the Skill or Perspectives courses, even though some courses are approved for more than one area.
8. Cumulative GPA must be at least 2.0 when the Associate of Science degree is awarded.

I. Skill Courses

1. Writing I (3 credits) -- see the Skill Courses: AS-OSU list
2. Writing II (3 credits) -- see the Skill Courses: AS-OSU list
3. Writing III/Speech (3 credits) -- see the Skill Courses: AS-OSU list
4. Mathematics (3 credits) -- see the Skill Courses: AS-OSU list
5. Health/Fitness (3 credits) -- see the Skill Courses: AS-OSU list

II. Perspectives Courses

In addition to Skill Courses, students must select additional courses in each of the areas identified below. No more than two courses from any one department may be used to satisfy the Perspectives area.

1. Physical Science with lab (4 credits) -- see the Perspectives Courses: OSU list
2. Biological Science with lab (4 credits) -- see the Perspectives Courses: OSU list
3. Choice of an additional Physical or Biological Science with lab (4 credits) -- see the Perspectives Courses: OSU list
4. Western Culture (3 credits) -- see the Perspectives Courses: OSU list
5. Cultural Diversity (3 credits) -- see the Perspectives Courses: OSU list
6. Literature and the Arts (3 credits) -- see the Perspectives Courses: OSU list
7. Social Processes and Institutions (3 credits) -- see the Perspectives Courses: OSU list
8. Difference, Power, and Discrimination (3 credits) -- see the Perspectives Courses: OSU list

III. Electives

Any college-level courses that bring total credits to 90 credits. Limitations include:

1. Career Technical courses - 12 credit maximum. See the list of Career Technical course prefixes in the Associate of Applied Science section.
2. PE and dance activity courses -- 11 credit maximum (Dance majors see Academic Advising team for limitations in major requirements)
3. Studio instruction in music (MUP) -- 12 credit maximum (Music majors see Academic Advising team for limitations in major requirements)
5. WR 115 may be included in the degree as an elective if completed summer 1999 or later.

Notes

1. College-level courses are numbered 100 or higher. Courses numbered 001-099 identify developmental courses (e.g. RD 090), with the exception of ENG 110, 116, 117; MTH 100, RD 115, WR 110, 120 and WR 115. (taken before summer 1999), which are considered developmental.
2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or academic advisor. Waiver testing is not the same as placement testing.
3. University second language admission requirements for transfer students graduating high school in 1997 and thereafter include one of the following:
   a) two terms of a college-level second language with an average grade of C- or above, OR
   b) two years of the same high school-level second language with an average grade of C- or above, OR
   c) satisfactory performance on an approved second language assessment of proficiency.
   d) demonstrated proficiency in American Sign Language meets this second language admission requirement.
4. Credit-by-Exam and Credit-by-Assessment may comprise up to 25% of total degree credits.
5. Repeatable courses may be used once to meet Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements. See limitations under Electives for maximum credits allowed for subject categories.
6. 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 public universities in Oregon. In such cases, the courses in question will normally transfer as electives.
7. 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 later may be reviewed and approved for Discipline Studies.
8. Only the highest grade for a repeated course will be calculated in the GPA for the purposes of admissions to OSU.
9. OSU requires an additional 9 credits of junior or senior year courses to satisfy general education ("Baccalaureate Core") requirements for all bachelor’s degrees. These credits must be taken at OSU.
10. A student selecting this transfer option must still meet OSU admission requirements, including course standing, grade point average and foreign language. Note: OSU requires a minimum 2.25 GPA in college-level transfer credits for admission purposes.

Skill Courses: AS-OSU

Writing I
WR 121 Intro to Academic Composition
WR 121_H Intro to Academic Composition-Honors

Writing II
BA 214 Business Communications
BI 101  General Biology
BI 101H  General Biology-Honors
BI 101E  Gen Bio - Ocean Life Foundation
BI 101F  Gen Biology-Geology
BI 101J  Gen Bio - Unseen Life on Earth
BI 101K  Gen Biology: Intro to Genetics
BI 102  General Biology
BI 102H  General Biology-Human Biology
BI 102J  General Biology - Ethnobotany
BI 103  General Biology
BI 103A  Gen Biology-Birds of Oregon
BI 103B  Gen Biology-Field Biology
BI 103D  Gen Biology-Sea Birds/Mammals
BI 103E  Gen Bio: Wildflowers of Oregon
BI 103F  Gen Biology-Global Ecology
BI 103G  Gen Biology-Mushrooms
BI 103H  Gen Biology-Animal Behavior
BI 103L  Gen Bio - Evolution & Diversity
BI 103M  Gen Bi - Biodiv & Sustainability
BI 103U  Gen Bio: Sea Birds/Mammals
BI 211  Principles of Biology
BI 212  Principles of Biology
BI 234  Introductory Microbiology
BOT 213  Principles of Botany
Z 213  Principles of Zoology

Western Culture
ARH 202  Survey of Western Art
ARH 204, 205, 206  History of Western Art
ARH 212  Twentieth Century Art
ENG 107, 108, 109  Survey of World Literature
ENG 195, 196, 197  International Film Studies
ENG 201, 203  Shakespeare
ENG 204, 206  Survey of British Literature
ENG 250  Intro to Folklore And Myth
ENG 253  Survey of American Lit
ENG 254  Survey of American Lit
FA 255  Underst Movies: Amer Cinema
HST 101, 102, 103  History Western Civilization
HST 104, 105, 106  World History
HST 201, 202, 203  History of the United States
HST 207  History of the American West
HST 208  Us History Since 1945
PHL 201  Intro Philosophy: Ethics
PHL 201H  Intro Philosophy: Ethics-Honors
PHL 205  Contemporary Moral Issues
PHL 205H  Contemporary Moral Issues-Honors
PS 208  Intro to Political Theory
REL 211  Introduction to the Bible
REL 230  Christian Beginnings

Cultural Diversity
ANTH 227  Prehistory of Mexico
ANTH 228  Cultures of Mexico
ANTH 231, 232, 233  American Indian Studies
ARH 203  Surv Amer Indian Art/Architecture
ARH 203H  Surv Amer Indian Art/Architect-Honors
ARH 207  History of Asian Art: India
ARH 208  History of Asian Art: China
ARH 209  History of Asian Art: Japan
ENG 231, 232  Native American Autobiography
ENG 243  Native American Literature
ENG 244  Asian American Literature
ES 101  Historical Racial & Ethnic Issues
ES 211  Chicano/Latino Experience
ES 222, 223  African-American Experience
ES 231  Asian American Experience
ES 233  Asian American Experience
ES 241  The Native American Experience
GEOG 201  World Regional Geography
HST 104, 105, 106  World History
MUS 108  Music in World Cultures
REL 201  Religions India: Hindu/Buddh
REL 202  Religions China & Japan
The Associate of General Studies degree provides an alternative for students pursuing some transfer programs to meet individual goals, balancing general education and elective transfer or career technical coursework. Award of this degree does not guarantee admission to a state four-year institution, or that all lower division general education requirements have been met, nor does it ensure junior status at a state four-year institution.

A student selecting this option still must meet the receiving university’s admission requirements, including course standing, grade point average and foreign language.

All courses should be aligned with the student’s intended program of study and the degree requirements at the intended transfer institution.

Each student is strongly encouraged to work with an academic 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

1. Complete a total of 90 credits college-level coursework (see notes).

2. Complete at least 24 credits at Lane.

3. 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.

4. All Elective courses may be any number of credits.

5. Pass all Foundational Skills courses with a grade of “C-” or “P” or better. Pass all Discipline Studies and Elective courses with a grade of “D-” or “P” or better.

6. Cumulative GPA must be at least 2.0 when the Associate of General Studies degree is awarded.

7. Maximum 16 credits “P” may be used toward degree. This limit does not include courses only offered P/NP.

### I. Foundational Skills

#### English Composition

Two courses (minimum 3 credits each): WR 115 (summer 1999 or after), WR 121/WR 121_H, WR 122/WR 122_H, WR 123, WR 227
Mathematics
One of the following options:
One Course (minimum 4 credits): MTH 105 or higher
OR
Two courses (minimum 4 credits each): MTH 052 or higher and one of the following: CIS 101 or CS 120 (all credits are counted in this area).

Health/Wellness/Fitness
Three credits, one course required from the list of activity classes from the AAOT, plus additional credits from PE 181-298 or the listing to total three credits. One credit from PE 186W accepted to meet this requirement.

OR
Three credits EXMS 214, FN 225, HE 152, 209, 222, 240, 250, 255, 262, 275 or 290; or HE 125, 252 (summer 1997 or later), Hl 101.

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

Arts and Letters
12 credits from the following: Art, Art History, Communications, Dance, Effective Learning, Film Arts, Language (CW, FR, SPAN, ASL, and other Transfer Languages), Humanities, Journalism, Literature, Music, Philosophy, Religion, Theater Arts, Writing, ES 244

Social Science
12 credits from the following: Anthropology, Career Guidance (CG), Economics, Ethnic Studies, Geographic Information Science (GIS), Geography, History, Human Development (HD), Human Services (HS), Philosophy, Political Science, Psychology, Religion, Sociology, Women's Studies, Humanities

Science/Math/Computer Science
14 credits from the following: Astronomy, Biology, Botany, Chemistry, Computer Science (CS prefix courses only, not CIS), Engineering, Geographic Information Science (GIS), Geology (G or ENSC), Mathematics (MTH 105 and higher), 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, PSY 217, WST 230.

NOTE: Only one of the BI 101s, and one of the BI 102s and one of the BI 103s will meet the Science/Math/Computer Science requirements for any Lane Degree. (See the course description for more information).

III. Electives
Any college-level courses that bring total credits to 90 credits including:

- Up to 10 credits of Cooperative Education may be included as electives. See Cooperative Education/Internships in the Course Descriptions.
- 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).
- Although there are no limits on Career Technical courses for the AGS, policies on accepting Career Technical credits vary at the four-year institutions in Oregon. Consult an academic advisor about taking Career Technical courses as Electives.

Notes
1. College-level courses are numbered 100 or higher. Courses numbered 001-099 identify developmental courses (e.g. RD 090), with the exception of ENG 110, 116, 117; MTH 100, RD 115, WR 110, 120 and WR 115. (taken before summer 1999), which are considered developmental.
2. Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or academic advisor.
3. University second language admission requirements for transfer students graduating high school in 1997 and thereafter include one of the following:
   a) two terms of a college-level second language with an average grade of C- or above, OR
   b) two years of the same high school-level second language with an average grade of C- or above, OR
   c) satisfactory performance on an approved second language assessment of proficiency.
   d) demonstrated proficiency in American Sign Language meets this second language admission requirement.
4. Credit-by-Exam and Credit-by-Assessment may comprise up to 25% of total degree credits.
5. Repeatable courses may be used once to meet a Discipline Studies requirement. Any additional allowable repeats may be used to meet Elective requirements.
6. 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 public universities in Oregon. In such cases, the courses in question will normally transfer as electives.
7. 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.

Associate of Applied Science

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 the index for Career Technical course prefixes.

Students who wish to pursue an AAS degree must choose a career technical program and follow the requirements listed for that program (see Career Technical programs for specific curriculum).

Each student is strongly encouraged to work with a Lane academic 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.
4. Pass all required program core courses with a letter grade of “C-” or better, unless your AAS program has different requirements.
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
Foundational Skills are open to demonstration of proficiency. For information on waiver testing or credit for prior learning, contact a counselor or academic advisor. Waiver testing is not the same as placement testing.

Writing
Three credits (one class). See your program for the specific required class. If none is listed, you must take one course, WR 115 (Summer 1999 or after) 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
Three credits, of any PE activity class.
OR
Three credits EXMS 214, FN 225, HE 152, 209, 222, 240, 250, 255, 262, 275 or 290; or HE 125, 252 (summer 1997 or later), HI 101

II. Discipline Studies
In addition to courses used for Foundational Skills in section 1, twelve additional credits are required from any discipline; 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
Three credits minimum from one subject prefix as specified by program, or if not specified, chosen from Art, Art History, Communication, Dance, Effective Learning, English, Film Arts, Foreign Language, Humanities, Journalism, Literature, Music, Philosophy, Religion, Theater, Arts, Writing, CW 201-203, or ES 244.

Human Relations
Three credits minimum from one subject prefix as specified by program, or if not specified, chosen from the approved Human Relations list.

Social Science
Three credits minimum from one subject prefix as specified by program, or if not specified, chosen from Anthropology, Career Guidance (CG), Economics, Ethnic Studies, Geographic Information Science (GIS), Geography, History, Philosophy, Human Development (HD), Human Services (HS), Political Science, Psychology, Religion, Sociology, Women’s Studies; CJA 214, HUM 100, SLD 103, SLD 121

Science/Math/Computer Science
Three 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 ENSC), 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.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>BA 278</td>
<td>Leadership and Team Dynamics</td>
</tr>
<tr>
<td>CG 100</td>
<td>College Success</td>
</tr>
<tr>
<td>CG 203</td>
<td>Human Relations at Work</td>
</tr>
<tr>
<td>COMM 130</td>
<td>Business and Professional Communication</td>
</tr>
<tr>
<td>COMM 218</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>COMM 219</td>
<td>Small Group Discussion</td>
</tr>
</tbody>
</table>

Career Technical Courses
Policies on accepting career technical credits vary at the four-year colleges in Oregon. Consult an academic advisor 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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>AM</td>
<td>Automotive</td>
</tr>
<tr>
<td>APR</td>
<td>Apprenticeship</td>
</tr>
<tr>
<td>AS</td>
<td>Aerospace Science</td>
</tr>
<tr>
<td>AUD</td>
<td>Audio Production</td>
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<tr>
<td>AV</td>
<td>Aviation Maintenance</td>
</tr>
<tr>
<td>BT</td>
<td>Business Technology</td>
</tr>
<tr>
<td>CA</td>
<td>Culinary Arts</td>
</tr>
<tr>
<td>CIS</td>
<td>Computer Information Systems</td>
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<tr>
<td>CNC</td>
<td>Computer Numerical Control</td>
</tr>
<tr>
<td>CSK</td>
<td>Career Skills</td>
</tr>
<tr>
<td>CST</td>
<td>Construction</td>
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<tr>
<td>DA</td>
<td>Dental Assisting</td>
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<tr>
<td>DH</td>
<td>Dental Hygiene</td>
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<tr>
<td>DRF</td>
<td>Drafting</td>
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<tr>
<td>DS</td>
<td>Diesel</td>
</tr>
<tr>
<td>ECE</td>
<td>Early Childhood Education</td>
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<tr>
<td>EMT</td>
<td>Emergency Medical Technology</td>
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<tr>
<td>ET</td>
<td>Electronic Technology</td>
</tr>
<tr>
<td>EXMS</td>
<td>Exercise and Movement Science</td>
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<tr>
<td>FN</td>
<td>Food and Nutrition</td>
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<tr>
<td>FT</td>
<td>Flight Technology</td>
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<tr>
<td>GD</td>
<td>Graphic Design</td>
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<tr>
<td>GWG</td>
<td>General Work Experience</td>
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<tr>
<td>HDFS</td>
<td>Human Development and Family Studies</td>
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<tr>
<td>HI</td>
<td>Health Informatics</td>
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<tr>
<td>HIM</td>
<td>Health Information Management</td>
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<tr>
<td>HIT</td>
<td>Health Information Technology</td>
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<tr>
<td>HO</td>
<td>Health Occupations</td>
</tr>
<tr>
<td>HRTM</td>
<td>Hotel, Restaurant, Tourism Management</td>
</tr>
<tr>
<td>HS</td>
<td>Human Services</td>
</tr>
<tr>
<td>LA</td>
<td>Legal Assistant</td>
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<tr>
<td>MA</td>
<td>Medical Assisting</td>
</tr>
<tr>
<td>MDP</td>
<td>Multimedia Production</td>
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<td>MFG</td>
<td>Manufacturing</td>
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<tr>
<td>MUL</td>
<td>Multimedia</td>
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<td>NRG</td>
<td>Energy</td>
</tr>
<tr>
<td>NRS</td>
<td>Nursing</td>
</tr>
<tr>
<td>OST</td>
<td>Occupational Skills Training</td>
</tr>
<tr>
<td>PN</td>
<td>Practical Nursing</td>
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<tr>
<td>PTA</td>
<td>Physical Therapist Assistant</td>
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<td>RT</td>
<td>Respiratory Therapy</td>
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<td>RTEC</td>
<td>Regional Technology Education Consortium</td>
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<td>SUST</td>
<td>Sustainability</td>
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<td>VP</td>
<td>Video Production</td>
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Career Technical subject codes previously used by Lane include: AB, AIL, AVN, APPR, BVDP, CSP, EET, ELT, HI, IT, LAT, LE, LGL, MMT, MO, MS, NUR, OA, PA, PGS, PST, PTV, RE, RH, RVS, SS
**Career Technical Certificates**

Students are encouraged to contact an academic 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 degrees. Refer to the individual programs for more specific requirements.

Students should check with their major academic advising team for possible associate degree options.

**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, WR 115 (Summer 1999 or after) or higher.

**Mathematics**

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

**Human Relations**

Three credits minimum as specified by program, or if not specified, chosen from the Human Relations list.

**Career Pathway Certificates**

Career Pathway Certificates of Completion (CPC) are between 12-44 credits and are fully embedded in an Associate of Applied Science degree or One-Year Certificate. They acknowledge proficiency in specific technical skills and are a “milestone” toward completion of a more advanced program. CPCs help students qualify for entry-level jobs, enhance their current program, or advance in their current field of employment.

**Career Pathway Certificates offered at Lane**

Lane divides CPCs into two categories—Model A: Beginning and Model B: Advanced. Curriculum for the following CPCs may be found in the Career Technical program descriptions.

To learn more about Career Pathway Certificates of Completion, contact Counseling and Advising, Building 1, Room 103, lanecc.edu/counseling, 541.463.3200, coundept@lanecc.edu

**Model A Certificates**

These are front end certificates ideal for students transitioning from Adult Basic Skills, English as a Second Language or dislocated workers looking for entry level jobs in a new career field, or those interested in short term training. These certificates may be taken independently and require minimal academic prerequisites or professional preparation.

**Basic Health Care**, embedded in Health Information Management AAS

**Community Health Worker**, embedded in Human Services AAS

**Customer Service**, embedded in Administrative Office Professional AAS

**Early Childhood Teacher’s Aide 1**, embedded in Early Childhood Education AAS

**Group Exercise Instructor**, embedded in Exercise and Movement Science AAS

**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.

- Pass all required program core courses with a letter grade of “C-” or better, unless your AAS program has different requirements.
- Some career technical programs may have higher general education course and/or grade requirements. Only the Academic Requirements Review Committee may waive a college General Education requirement. Petitions are available from Enrollment and Student Financial Services at lanecc.edu/enrollment-services-forms.
- 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 under the Cooperative Education/Internships in the course descriptions may be used.
- A maximum of 12 credits of Physical Education list from the AAO under Health/Wellness/Fitness 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.

**Manufacturing Technician 1**, embedded in Manufacturing Technology AAS

**Meeting, Convention, and Special Events Manager**, embedded in Hospitality Management AAS

**Model B Certificates**

These are advanced certificates ideal for professional development of those currently employed or those seeking to enhance their current or previous educational path. They support the development of specialized skills within a career field. In many cases, they require either significant academic prerequisites or demonstrated professional expertise.

**Computer Network Monitoring and Management**, embedded in Computer Network Operations AAS

**Computer Network Security**, embedded in Computer Network Operations AAS

**Database Specialist**, embedded in Computer Programming AAS

**Guidance and Curriculum**, embedded in Early Childhood Education AAS

**Health Educator**, embedded in Public Health Education and Promotion Specialist

**Infant and Toddler**, embedded in Early Childhood Education AAS

**Legal Office Skills**, embedded in Administrative Office Professional AAS

**Manufacturing Technician 2**, embedded in Manufacturing Technology AAS

**Medical Coding**, embedded in Health Information Management AAS

**MIDI and Audio Production**, embedded in Music Technology and Production AAS

**MIDI Production**, embedded in Music Technology and Production AAS

**Mobile Application Development**, embedded in Computer Programming AAS

**Office Software Specialist**, embedded in Administrative Office Professional AAS

**Shielded Metal Arc Welder**, embedded in Fabrication Welding AAS

**Small Business Ownership**, embedded in Administrative Office Professional AAS

**Wire Drive Welder**, embedded in Welding Processes One-Year Certificate
Oregon Transfer Module

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

For students intending to transfer within a year to a public university in Oregon, 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.

Any student holding an Oregon Transfer Module that conforms to the guidelines below will have met the requirements for the Transfer Module at any Oregon community college or public institution. Oregon Transfer Module credits also may not match program requirements in the receiving school. Students are encouraged to meet with a counselor or academic 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 121_H and WR 122/WR 122_H, WR 123, or WR 227)

Oral Communications
One course of fundamentals of speech or communication (COMM 100, 111, 112, 130, 218, 219)

Mathematics
One course in college-level mathematics designated by the college as meeting the statewide criteria for mathematics.

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

II. Discipline Studies (must be at least 3 credits each)

Arts and Letters
Three courses from approved list under AAOT degree

Social Sciences
Three courses from approved list under the AAOT degree

Science/Math/Computer Science
Three courses from the approved list under the AAOT degree including at least one biological or physical science with a lab

III. Additional Requirements

• Electives as needed to bring the total credits to 45. Courses must be from the Disciplines Studies (Arts and Letters, Social Sciences, or Science/Math/Computer Science).  
• Grades: All courses must have a grade of “C-” or better.
• Cumulative GPA: Students must have a minimum cumulative GPA of 2.0 at the time the module is posted to the student’s transcript.
• Developmental Courses are designed to prepare students for college transfer courses are not applicable to the Oregon Transfer Module.

Notes and Limitations

When choosing courses in science and mathematics, students/advisors should check specific requirements at receiving schools. Courses that include a lab component, or that deal with specific subjects, may be required for majors or degrees.

All Oregon community colleges and public universities in Oregon will offer students the opportunity to complete an Oregon Transfer Module and the OTM designation will be posted on the transcript by the issuing institution upon request. Regionally accredited private colleges and universities within the state may also offer and issue Transfer Modules, which will be accepted at any Oregon public college or university.

Transfer

All Oregon community colleges and public universities in Oregon will offer students the opportunity to complete an Oregon Transfer Module and the OTM designation will be posted on the transcript by the issuing institution upon request. Regionally accredited private colleges and universities within the state may also offer and issue Transfer Modules, which will be accepted at any Oregon public college or university.

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 academic 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 academic 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 advisor. General transfer information is available at oregontransfer.org.

For students intending to become teachers, specific recommendations on structuring their AAOT degrees are given at: How to become an Oregon Teacher, oregon transferring.org/prospstu/teacher.

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 second language with an average grade of C- 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 academic 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 for DPP available through OSU.

DPP will allow students to use financial aid to take courses at both campuses. Regardless of the number of credits, the financial aid is administered by OSU.

Degrees For information about degrees and limitation, see the Degree and Certificate Overview section.

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### Career Technical Programs and Transfer Interest Areas

To help students explore college majors and career fields related to their interests, Lane has organized career-technical programs and transfer interest areas into eight categories:

- Arts and Communications;
- Business and Office Professionals;
- Computer Science and Information Technology;
- Culinary, Hospitality, and Tourism;
- Health, Medical, and Fitness;
- Industrial Trades, Technologies, Transportation, and Apprenticeship;
- Science, Natural Resources, Math, and Engineering;
- Social Sciences, Social Services, and Education.

We encourage students to browse one or more categories of interest and review the list of related majors. Consider taking courses in these areas to explore your interests, meet with the assigned academic advising teams to learn about classes and degree options, and visit the Career Center to explore career fields and occupations.

### Career-Technical Programs

Career-technical programs train graduates for immediate employment and direct entry into the workforce.

Curriculum requirements and descriptions for Lane's career-technical degrees and certificates may be found in the Career-Tech section of this catalog. In the Career-Technical section, the Career Pathways Certificates are listed with their corresponding AAS degrees. 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 the academic advising teams or the department offering a particular program. Work closely with the academic advising team assigned to these programs to plan your courses and stay on track toward completion. Email addresses for academic advising teams are listed in the following chart.

Depending upon the career-technical program in which they are enrolled, students can earn: an Associate of Applied Science degree, a two-year Certificate of Completion, a one-year Certificate of Completion, a less-than-one-year certificate, a Career Pathways Certificate, or a combination of these.

Lane also offers noncredit opportunities for career training and continuing education. See Continuing Education.

### Transfer Interest Areas

The following chart contains a list of transfer interest areas (majors) to help students choose Lane courses that may transfer to another college or university. Not all majors are offered at every college or university, and there are many additional majors not listed here. For some of these transfer areas, Lane may have specific articulation agreements and transfer guides with Oregon universities, but not for all. (An articulation agreement is a signed agreement with a specific college or university that specifies a list of courses to be equivalent for a particular major or for general degree requirements.) Although the majority of these transfer areas lead to bachelor's degrees, some lead to associate's degrees at other community colleges and some require graduate-level education beyond a bachelor's degree (these are designated as "pre-professional").

Lane offers six transfer degrees: Associate of Arts Oregon Transfer (AAOT), Associate of Science: University of Oregon (AS:UO), Associate of Science: Oregon State University (AS:OSU), Associate of Science Oregon Transfer: Business (ASOT: BUS), Associate of Science Oregon Transfer: Computer Science (ASOT: CS), and the Associate of Science (AS). Learn more about transfer degrees in the Degree and Certificate Overview.

Work closely with the academic advising team assigned to these transfer interest areas to plan your courses and develop the best transfer plan for your goals. Email addresses for academic advising teams are listed in the chart.

On the following chart, the notations in each column indicate the following:

- 1-yr: One-Year Certificate of Completion
- 2-yr: Two-Year Certificate of Completion
- AAS: Two-year Associate of Applied Science Degree;
- CPC: Career Pathway Certificate
- LTOY: Less Than One-Year Certificate of Completion

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### Degree Partnership Program (DPP)

Lane Community College and Oregon State University (OSU) 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.

Lane and OSU students can be jointly admitted and enrolled at Lane and OSU. Students must be admitted to the Degree Partnership Program (DPP) administered by the University of Oregon.

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.

For information about degrees and limitation, see the Degree and Certificate Overview section.
• Transfer Interest Area: Work closely with assigned academic advising team to develop a transfer plan before transferring to another college or university.

**Note:** Some programs listed below can be pursued as either a career-technical program or a transfer interest area. Work closely with the academic advising team to decide which fits your goals.

### ARTS AND COMMUNICATIONS

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### CULINARY, HOSPITALITY, AND TOURISM

| Baking and Pastry | ☑ | | | CulinaryHospPrograms@lanecc.edu |
| Culinary Arts and Food Service Management | | ☑ | | CulinaryHospPrograms@lanecc.edu |
| Hospitality Management | | | ☑ | CulinaryHospPrograms@lanecc.edu |
| Hotel/Restaurant/ Tourism Management | | | ☑ | CulinaryHospPrograms@lanecc.edu |
| Meeting, Convention, and Special Events Manager | ☑ | | | CulinaryHospPrograms@lanecc.edu |

### HEALTH, MEDICAL, AND FITNESS

<p>| Basic Health Care | ☑ | | | <a href="mailto:HIMProgram@lanecc.edu">HIMProgram@lanecc.edu</a> |
| Chiropractic Medicine (pre-professional) | | ☑ | | <a href="mailto:Sci-MathPrograms@lanecc.edu">Sci-MathPrograms@lanecc.edu</a> |
| Communication Disorders and Sciences | | | ☑ | <a href="mailto:SocSci-LLCPrograms@lanecc.edu">SocSci-LLCPrograms@lanecc.edu</a> |
| Community Health Worker | ☑ | | | <a href="mailto:SocSci-LLCPrograms@lanecc.edu">SocSci-LLCPrograms@lanecc.edu</a> |
| Dance | | | ☑ | <a href="mailto:ArtsPrograms@lanecc.edu">ArtsPrograms@lanecc.edu</a> |
| Dental Assisting | ☑ | | | <a href="mailto:DAProgram@lanecc.edu">DAProgram@lanecc.edu</a> |
| Dental Hygiene | | | ☑ | <a href="mailto:DHProgram@lanecc.edu">DHProgram@lanecc.edu</a> |
| Dentistry (pre-professional) | | | ☑ | <a href="mailto:Sci-MathPrograms@lanecc.edu">Sci-MathPrograms@lanecc.edu</a> |
| Emergency Medical Technician | ☑ | | | <a href="mailto:EMTParamedicProgram@lanecc.edu">EMTParamedicProgram@lanecc.edu</a> |
| Fire Suppression | | | ☑ | <a href="mailto:EMTParamedicProgram@lanecc.edu">EMTParamedicProgram@lanecc.edu</a> |
| Fitness Specialist Level 1 | | ☑ | | <a href="mailto:EMSPrograms@lanecc.edu">EMSPrograms@lanecc.edu</a> |
| Group Exercise Instructor | ☑ | | | <a href="mailto:EMSPrograms@lanecc.edu">EMSPrograms@lanecc.edu</a> |
| Health Care Administration | | | ☑ | <a href="mailto:AlliedTransferPrograms@lanecc.edu">AlliedTransferPrograms@lanecc.edu</a> |
| Health Educator | ☑ | | | <a href="mailto:AlliedTransferPrograms@lanecc.edu">AlliedTransferPrograms@lanecc.edu</a> |
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## INDUSTRIAL TRADES, TECHNOLOGIES, TRANSPORTATION, APPRENTICESHIP

### Apprenticeship

Lane offers apprenticeship programs in the following industries, with options to earn a 1-year certificate or AAS degree: Carpenters, HVAC Technicians/Installers, Inside Electricians, Limited Energy Technicians, Limited Maintenance Electricians, Manufacturing Plant Electricians, Millwrights, Plumbers, Sheet Metal Workers

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**SOCIAL SCIENCES, SOCIAL SERVICES, AND EDUCATION**

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During the refund period, students will be assigned for each class unless the student drops the course which they have enrolled. A grade or a withdrawal notation will be recorded in the student's record. Students will be held accountable for attending each class in their scheduled class activity. Failure to comply will result in the instructor notifying the Academic Requirements Review Committee.

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. Through Lane's No Show Drop Procedure, students must attend at least one full class session during the first week of the class and for online classes participate in at least one meaningful activity. Failure to comply will result in the instructor notifying the academic department to process a "No Show Drop." Students entering late who may have missed this announcement should contact the instructor for the attendance policy.

Cooperative Education

Cooperative education provides students with the opportunity to learn on-the-job while earning 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 Dean, students must enroll in a minimum of three credits of co-op per term.

Course 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 are encouraged to use the Transfer Tool (lanecc.edu/esfs/general-information-transferring-credits) in order to see how credits from other institutions transfer to Lane. Transfer 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 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 to learn on-the-job while earning 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 Dean, 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. A student who does not identify 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.

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.

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### Policies and Procedures

#### 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 ensure 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/esfs/enrollment-services-forms and are processed by completion specialists.

**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. See Academic Standards and Alert System in the index.

**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. Through Lane’s No Show Drop Procedure, students must attend at least one full class session during the first week of the class and for online classes participate in at least one meaningful class activity. Failure to comply will result in the instructor notifying the academic department to process a “No Show Drop.” 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.
option classes. Admission into the Lane Honors Program, however, requires a formal application. For more information, visit lanec.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. See the index Career Technical course prefixes.

- **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/certification completion in myLane under the myGradPlan tab.

### Oregon Transfer Module

OTM designation will be posted in the student's transcript upon completion.

### 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

Processes online admissions, provides registration and billing assistance to all students.

### Financial Aid

Building 1, First Floor (Lobby), 541.463.3400

Financial Aid responds to all questions and issues regarding financial aid.

### 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 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) credit 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, 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 lanec.edu.

### Program

A Career Technical 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
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. You must provide and accurate Social Security number to be eligible for a 1098-T.

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 develop 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. 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 Educational 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
- Participation in official activities/sports
- Most recent previous school attended
- Weight/height of athletic team members

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. Students wishing to have transfer work evaluated must submit the online transcript evaluation form at lanecc.edu/fsfs/request-transcript-evaluation.

**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>+ or -</td>
<td></td>
<td>Plus or minus 0.30 points, effective July 1, 1999</td>
</tr>
</tbody>
</table>
Academic Progress Standards (APS) Academic Progress Standards are based on academic performance for each term. Students are required to attain a minimum GPA of 2.0 and complete at least 67% of attempted credits each term.

Special Note: Attempted credits include all credits a student is enrolled in at the beginning of the second week of the term, after the Refund Deadline. Refund deadlines for summer terms can vary. Check the Refund Schedule lanecc.edu/efs/refund-drop-schedule-change-deadline-information for details.

<table>
<thead>
<tr>
<th>Term</th>
<th>GPA</th>
<th>Completion Rate</th>
<th>Academic Standing</th>
<th>Intervention</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Less than 2.0</td>
<td>Less than 67%</td>
<td>Alert 1</td>
<td>Requires completion of Keys to Success Workshop (online) accessed on your Moodle page</td>
</tr>
<tr>
<td>2nd</td>
<td>Less than 2.0</td>
<td>Less than 67%</td>
<td>Alert 2</td>
<td>Requires Keys to Success Workshop (in-person) lanecc.edu/counseling/keys-success-workshop</td>
</tr>
<tr>
<td>3rd</td>
<td>Less than 2.0</td>
<td>Less than 67%</td>
<td>Alert 3</td>
<td>Requires enrollment in College Success: Back On Course (1 credit) lanecc.edu/counseling/keys-success-workshop</td>
</tr>
<tr>
<td>4th</td>
<td>Less than 2.0</td>
<td>Less than 67%</td>
<td>Dismissal</td>
<td>Requires out for two terms a completed petition to return lanecc.edu/counseling/keys-success-workshop</td>
</tr>
</tbody>
</table>

Petitions to return to Lane Students who do not meet the Academic Progress Standards for a fourth term will be dismissed from college credit classes and programs for a minimum of two academic terms. To be reinstated, students will submit a completed Petition to Return to Lane available at the Alert 4 Information Session and on the Alert 4/Dismissal Moodle site. Petitions must be turned in a minimum of six weeks prior to the beginning of the academic term the student wants to return.

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
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.

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, 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 Request to Absolve Repeated Courses from the Cumulative Grade Point Average form. The form is available in myLane under the Enrollment tab. 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.

Student Policies and Complaint Procedures
Lane Community College policies and procedures are subject to change without prior notice.

Board Policies Directly Affecting Lane Students
Student Services—Global Directions BP720
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 BP630
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 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 BP410
No person, including students, employees, college patrons and vendors may bring, possess, 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 BP420
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
Admissions for Credit Students PB705
Lane Community College accepts all students who are 18 or over or have a high school diploma or GED. Students who are under 18 and have not graduated may still attend if they follow the guidelines for Under 18 Students. 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, mental or physical disability, religion, expunged record, veterans' status or association with any member of these protected groups.

Tuition BP725
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).

For adjustments:
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. Prior to approval of the tuition increase, the board will review the index options, affordability and access for students, and the revenue requirements of the college.

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: Center for Accessible Resources, Building 1, Room 218, 541.463.5059, TTY Relay: 711
- Problems with access to Lane’s facilities: Todd Smith, Interim Director, Facilities Management and Planning, Building 7, Room 204B, 541.463.5566
- Employee workplace accommodations: Sharon Daniel, Human Resources, Building 3, Room 114, 541.463.5589
- Disability related complaints/Section 504 Coordinators: Center for Accessible Resources, Building 1, Room 218, 541.463.3010, 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: Kerry Levett, 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.
- For any other issues, including those covered by board of education policy, use the student complaint process. For copies of the complete student code and complaint process and for more information, visit or call the Office of Academic and Student Affairs, second floor, Administration Building, main campus, phone 541.463.5732.

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; dependency; damage to lungs and nasal membranes; heart problems; paranoia; convulsions; death. Affects fetus.

Depressants
- Relax the central nervous system. (A.) Barbiturates (‘downers’). (B.) Tranquilizers (valium, librium). (C.) Methaqualone (‘ludes’) confusion; loss of coordination; tolerance; dependency; seizures, coma; death. In combination with alcohol, especially dangerous.

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 Diethlamide (“LSD,” “acid”). (B.) Mescaline, MDMA, DMT, STP, Psilocybin hallucinations; panic; tolerance; “flashbacks”; possible birth defects in user’s children. (B.) Phencyclidine (“PCP,” “Angel Dust”) depression; irrational behavior; confusion; convulsions; hallucinations; coma; death.

Narcotics

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 lanecc.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 in district 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. Accommodations for Access
Center for Accessible 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 Center for Accessible 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 Student Policies and Complaint Procedures.

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, recommendation 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 Jornalistic 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 insure 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 grievance procedures: The Student Code of Conduct, Student Complaint Procedure, and the Student Sexual Misconduct and Harassment Procedure. These procedures are available on the college's website, myLane, and Org-Sync. Contact Office of Academic and Student Affairs, 541.463.5732.

V. Discipline

The Student Code of Conduct and the student conduct process apply to the conduct of individual students and all College affiliated student organizations. For the purposes of student conduct, a student (a) is enrolled as a student and/or registered for one or more credit hours including dually enrolled students in multiple institutions; (b) is enrolled in a non-credit program or (c) was enrolled under (a) or (b) within four preceding terms is considered a “Student” for purposes of the procedure or (d) if the person has submitted an application for admission, financial aid or any other service provided by the College that requires student status.

The Student Code of Conduct is not applicable to students enrolled only in College Now courses on their local high school campuses. Lane Community College reserves the right to clarify appropriate students to whom the Student Code of Conduct is applicable.

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, staff 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. Dismissal as a result of faculty action is counted toward the maximum number of absences allowed in the class.

If a student is dismissed for inappropriate behavior, faculty may 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 through the processes outlined in the Student Code of Conduct.

Campus Public Safety may be called to assist in any disciplinary situation. The assisting Public Safety officer must file a report on all situations involving 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
Lane Community College is a community learning institution committed to fostering a campus environment conducive to academic inquiry, a productive campus life, and thoughtful study and discourse. The student conduct program, within the Office of Academic and Student Affairs, is committed to an educational and developmental process that balances the interests of individual students with the interests of the College community.

A community exists on the basis of shared values and principles. At the College, student members of the community are expected to uphold and abide by certain standards of conduct that form the basis of the Student Code of Conduct. These standards are embodied within a set of Values that include integrity, social justice, respect, community, and responsibility.

Each member of the College community bears responsibility for their individual conduct and is expected to assume reasonable responsibility for the behavior of others. When members of the community fail to exemplify these five values by engaging in violation of the rules below, campus conduct proceedings are used to assert and uphold the Student Code of Conduct.

The student conduct process at Lane Community College is not intended to punish students; rather, it exists to protect the interests of the community and to challenge those whose behavior is not in accordance with the college’s policies and procedures. Sanctions are intended to challenge students’ moral and ethical decision-making and to help bring behavior into accord with community expectations. When a student is unable to conform their behavior to community expectations, the student conduct process may determine the student should no longer share in the privilege of participating in this community.

The purpose of this Student Code of Conduct is to protect the individual rights of students and employees 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 employees, property protection, record security, and other education-related services.

Through this Student 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 should be aware that the student conduct process is quite different from criminal and civil court proceedings. Procedures and rights in student conduct procedures are conducted with fairness to all, but do not include the same protections of due process afforded by the courts. Due process, as defined within these procedures, assures written notice and a Student Conduct Conference before an objective decision-maker. No student will be found in violation of College policy or procedure without information showing it is more likely than not (preponderance of evidence) that a violation occurred, and any sanctions will be proportionate to the severity of the violation and to the cumulative conduct history of the student. This determination does not require a standard beyond a reasonable doubt, and the technical rules of evidence applicable to civil and criminal procedures shall not apply.

Students cited with code violation are entitled to due process as described in the code and may appeal certain consequences of violations.

NOTE: At the time of the catalog publication, the Student Code of Conduct was in the process of revision. The Student Code of Conduct can be found on the college’s website, myLane, and OrgSync. For a written copy of the Student Code of Conduct, please contact the Executive Dean of Student Affairs, 541.463.5725.
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 Annual Security (Clery) Report is located at lanecc.edu/psd/clery-compliance-information 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, and the Downtown Center. The Cottage Grove and Florence campuses, Lane’s Aviation Academy, KLCC radio station, and the Willamette Dental Clinic receive investigative, training, prevention, and consulting services from Public Safety, but are primarily served by their local law enforcement agencies. Police departments in these jurisdictions also report incidents to the college’s Public Safety department. Public Safety provides services at the Downtown Campus including the Titan Court residential facility 7 days a week. In order to contact a downtown officer, call 541.463.6267.

Lane Community College Public Safety Officers are certified under the Oregon Department of Public Safety Standards and Training. 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, active shooter/violent actor response, 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. Special note: Marijuana use or possession in any form remains illegal on all of Lane Community College’s campuses and properties.

Lighting and Landscaping College staff work constantly to maintain good lighting and to clear undergrowth to improve visual access on campus and prevent crime.

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 Homeland Security and the FBI.

Emergency Assistance

Public Safety Officers are always on duty (24/7/365) 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.

Campus Elevators All call boxes in elevator cars connect to Public Safety Emergency (5555).

Emergency Car Services Emergency car battery packs are offered 24 hours a day. Call or visit Public Safety. Individuals must pick up the packs at Public Safety, Building 13, Room 107 and a valid photo ID is necessary for this free service. 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 taken into custody, cited, issued an order to appear, or subject to other campus and court referrals. Public Safety Officers may also facilitate contact between the victim and other law enforcement agencies.

Services

In addition to direct law enforcement services and support, Public Safety will also make referrals to other appropriate campus offices to assist complainants and crime victims. These referrals include, but are not limited to: The Women’s Center, the Title IX officer, Academic and Student Affairs, Veterans Resource Office, Human Resources, the Center for Accessibility Resources, and the Counseling Department.

Other Services Public Safety provides numerous other services including: criminal background checks, access control system assistance, electronic fingerprinting, dignitary protection, alarm monitoring and response, safety escorts, copies of accident reports, and personal safety instruction.

Public Safety is also the primary facilitator and supporter of a campus warming center. This center provides shelter and meals for any individual when the temperature drops to 30 degrees F or lower.

Public Safety also maintains the official campus lost and found service. Individuals who have lost or found property, should contact Public Safety at 541.463.5558 or stop by the Public Safety office.

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, as well as the complete campus Annual Security Report, 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

To request this information in an alternate format please contact the Center for Accessible Resources at 541.463.5150 or accessibleresources@lanecc.edu.
Career Technical Programs

Accounting
Offered by the Business Department 541.463.5221
Associate of Applied Science Degree

Program Coordinator Chris Culver, 541.463.5153, culverc@lanecc.edu

Purpose To prepare graduates to enter the field of accounting.

Learning Outcomes The student who successfully completes all Accounting requirements will:

• anticipate and actively explore innovative solutions to technological and organizational challenges.
• 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.
• organize and manage the daily business functions of an organization.
• 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.
• use software including word processing, spreadsheets, and databases to input, manage, and interpret information to meet organizational needs.
• work independently within diverse business environments; apply individual strengths and critical thinking to collaborative efforts.
• create and present professional documents, work papers, and presentations for both internal and external users.
• apply accounting theory to analyze accounting information.
• understand and monitor the financial, tax, payroll, legal, and other compliance requirements for a variety of organizational entities.
• plan, budget, and evaluate financial performance.

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, kelschj@lanecc.edu.

Job Openings Projected through 2020
Lane County openings - 23 annually
Statewide openings - 251 annually

Wages
Lane County average hourly - $18.20; average annual - $37,784
Oregon average hourly - $19.12; average annual - $39,756

Costs
Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.
Books .................................................. $3,528
Computers/Internet Service .......................... $1,500
Resident Tuition and General Student Fees .......... $10,830
Total Estimated Cost $15,858

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• An approved 3-credit Health class can be substituted for the PE requirements. Please speak with your academic advisor.
• BT 020 must be taken for a letter grade, not P/NP.
• Students must place at least into WR 121 or WR 121_H and MTH 095, or take classes to reach these levels before enrolling in program courses. Consult course descriptions for prerequisites on other courses.
• All program core courses (BA, BT) 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.
• Foundational Requirements (writing, math, communication and Health/Wellness/Fitness courses) may be completed with a grade of “C-” or a “Pass”.
• 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.
• Before enrolling in BA 214 Business Communications, students must pass BT 108 Business Proofreading and Editing.

Prerequisites
BT 108 Business Proofreading and Editing .................. 4

First Year
Fall
CG 203 Human Relations at Work .......................... 3
MTH 095 Intermediate Algebra or higher ............... 5
Physical Education Requirement ................. 1
BT 120 MS WORD for Business ...................... 4
Choice of:
WR 121 Academic Composition .............. 4
WR 121_H Academic Composition-Honors .......... 4

Winter
BA 101 Introduction to Business ...................... 4
BA 165 Introduction to the Accounting Cycle ........ 4
BA 214 Business Communications .............. 4
BA 281 Personal Finance ......................... 4

Spring
BT 163 QuickBooks .................................... 4
BT 206 Co-op Ed: Business Seminar .............. 2
Physical Education Requirement ............ 1
MTH 105 Math in Society or higher ............ 4
BT 123 MS EXCEL for Business .............. 4

Second Year
Fall
BA 211 Financial Accounting .................... 4
BA 170 Payroll Records and Accounting ........ 4
BA 278 Leadership and Team Dynamics ........ 4
Communication Course ......................... 4

Winter
BA 226 Business Law ................................ 4
BT 221 Budgeting for Managers .................. 4
BT 223 MS EXCEL for Business-Expert .......... 4
BT 230 Sustainable Paperless Office Practices using Adobe Acrobat .......................... 4

Spring
BT 286 Professional Bookkeeping .............. 4
Physical Education Requirement ............ 1
BA 280AC Co-op Ed: Accounting .............. 3
BT 272 Tax concepts and Preparation .......... 4
Administrative Office Professional

Offered by the Business Department, 541.463.5221

Associate of Applied Science Degree

Career Pathway Certificate - Administrative Office Professional: Customer Service
Career Pathway Certificate - Administrative Office Professional: Office Software Specialist
Career Pathway Certificate - Administrative Office Professional: Small Business Ownership
Career Pathway Certificate - Administrative Office Professional: Legal Office Skills

Program Coordinator Judy Boozer, Bldg. 19, Rm. 253C, 541.463.5765, boozerj@lanecc.edu

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 student who successfully completes all Administrative Office Professional requirements will:

- organize and manage the daily business functions of an organization.
- 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.
- 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.
- have enhanced employment opportunities based on selection of directed electives, such as accounting, legal, and medical.
- use communication, teamwork, and interpersonal skills for internal and external customer support.
- perform in office management level positions after additional office experience is acquired.
- understand accounting as the ‘language of business’.
- 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.

- use software including word processing, spreadsheet, database, and presentation tools to input, manage, and interpret information to meet organizational needs.
- engage customers and co-workers in a purposeful manner listening to and accurately interpreting their responses within diverse cultural contexts.

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, Administrative Office Professional Co-op Coordinator, Bldg. 19, Rm. 253A, 541.463.5540, kelschj@lanecc.edu

Job Openings Projected through 2020
Lane County openings - 42 annually
Statewide openings - 485 annually

Wages
Lane County average hourly - $16.59; average annual - $34,494
Oregon average hourly - $17.46; average annual - $36,308

Costs
Books ........................................... $3,190
Computers/Internet Service ........................................... $1,800
Resident Tuition and General Student Fees ........................................... $11,144

Total Estimated Cost $15,834

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Prerequisites are required for some courses. See course descriptions.
- All Business Department majors must have a computer that meets minimum system requirements. Contact the department or academic advisor for details.
- 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.
- Foundational Requirements (writing, math, communication and Health/Wellness/Fitness courses) may be completed with a grade of ‘C’ or ‘Pass’.
- Students must place at least into WR 121 or WR 121_H and MTH 065, or take classes to reach these levels before enrolling in program core courses.
- 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.
- Before enrolling in BA 214 Business Communications, students must pass BT 108 Business Proofreading and Editing.
- The AOP program has graded keyboarding skill levels built into several courses. For details: lanecc.edu/business/testing/keyboarding-skill-competency-recommendations.

Prerequisites
BT 108 Business Proofreading and Editing .................. 4

First Year

Fall
CG 203 Human Relations at Work .................. 3
BT 120 MS WORD for Business .......................... 4
CS 120 Concepts of Computing: Information Processing ........................................... 4

Choice of:
WR 121 Academic Composition
WR 121_H Academic Composition Honors ........................................... 4

Winter
BA 101 Introduction to Business .................. 4
Purpose

Program Coordinator

Career Pathway Certificate

Offered by the Business Department 541.463.5221

Program Coordinator LuAnne Johnson, Bldg. 19, Rm. 254B, 541.463.5767, johnsonlm@lanecc.edu

Purpose

The graduate of the Customer Service Certificate of Completion will be able to:

- utilize keyboarding and business software skills to help support customers.
- communicate in written and verbal forms to help serve customers.
- work effective as an individual and within teams to help meet customer needs.
- deliver effective initial customer service and promote customer satisfaction.

Administrative Office Professional:

Office Software Specialist

Offered by the Business Department, 541.463.5221

Career Pathway Certificate

Program Coordinator Judy Boozer, Bldg. 19, Rm. 253C, 541.463.5765, boozerj@lanecc.edu

Purpose

This Career Pathway Certificate 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:

- navigate the Windows operating environment.
- create, format, save, edit, paginate, and print documents.
- create, run, and save macros.
- 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, resize and scale objects, 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.
• create and apply character and paragraph styles, generate and update document indexes, tables of contents, and captions; demonstrate mastery in working with document sections, templates, and mail merge.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• All Business Department majors must have a computer that meets minimum system requirements. Contact the department or academic advisor for details.
• 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.
• The AOP program has graded keyboarding skill levels built into several courses. For details: lanec.edu/business/testing/keyboarding-skill-competency-recommendations
• Students must place at least into WR 121 or WR 121H and MTH 065, or take classes to reach these levels before enrolling in program core courses. WR 121 or WR 121_H and MTH 065 must be taken for a letter grade, and must be completed with a grade of 'C'.
• 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.

BT 120 MS WORD for Business……………………………………. 4
BT 122 MS POWERPOINT for Business…………………………… 3
BT 123 MS EXCEL for Business…………………………………… 4
BT 220 MS WORD for Business Expert………………………….. 3
BT 223 MS EXCEL for Business-Expert……………………………. 4
BT 228 Integrated Office Applications……………………………. 4
CIS 125D Software Tools 1: Databases……………………………. 4

Administrative Office Professional: Legal Office Skills

Offered by the Business Department 541.463.5221

Career Pathway Certificate

Program Coordinator Judy Boozer, Bldg. 19, Rm. 253C, 541.463.5765, boozerj@lanec.edu

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 freelance 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 organization's 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.

Fall
BA 101 Introduction to Business………………………………….. 4
BT 123 MS EXCEL for Business…………………………………… 4
BT 165 Introduction to the Accounting Cycle……………………. 4

Winter
BA 223 Marketing……………………………………………………. 4
BA 226 Business Law……………………………………………….. 4
BT 221 Budgeting for Managers…………………………………… 4
BT 150 Business Web Pages with WordPress……………………. 3

Spring
BA 206 Management Fundamentals…………………………….. 3
BA 250 Small Business Management……………………………. 4
BT 163 QuickBooks………………………………………………….. 4

Administrative Office Professional: Legal Office Skills

Offered by the Business Department, 541.463.5221

Career Pathway Certificate

Program Coordinator Business Department, Bldg. 19, Rm. 137, 541.463.5221

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.
Purpose

To prepare the graduate for employment as an Automotive Service Technician working at company-owned repair stations, fleets, independent garages, gas stations, or new car dealerships.

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.
- successfully complete ASE certification tests.
- demonstrate and use industry safety 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.

Accreditation

Automotive Technology, certified by the National Automotive Technicians Education Foundation, a non-profit foundation within the National Institute for Automotive Service Excellence

Admission Information

Lanecc.edu/advttech/at/admission-information or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Advising and Counseling

classes.lanecc.edu/course/view.php?id=31255

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 Chuck Fike, Automotive Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206, 541.463.5078, fikecc@lanecc.edu

Job Openings Projected through 2020

Lane County openings - 21 annually
Statewide openings - 303 annually

Wages

Lane County average hourly - $19.53; average annual - $40,612
Oregon average hourly - $19.95; average annual - $41,499

Costs

(Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)

Books ................................................................. $1,257
Differential Fees* ................................................ $2,717
Instruments/Tools ............................................... $2,750
Program Specific Fees ........................................... $1,100
Resident Tuition and General Student Fees ................ $12,210

Total Estimated Cost $20,034

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

- 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.
- WR115W and the PE/Health requirements must be passed with a “C-” or better to fulfill program requirements.
- Prerequisites are required for some courses. See course descriptions.
- 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.
- 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 eligibility skill levels. Students who are unable to meet the minimum eligibility for English composition courses must complete WR115W and the PE/Health requirements must be passed with a “C-” or better to fulfill program requirements.
- 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.
- The LA course sequence is offered through Umpqua Community College Fall, Winter Spring and Winter, Spring, Summer.

Choice of:

Fall

WR 121 Academic Composition .......................... 4
WR 121_H Academic Composition Honors ........... 4
LA 100 Legal Procedures ................................. 4
LA 102 Legal Terminology ............................... 3
BT 108 Business Proofreading and Editing ......... 4

Winter

CS 120 Concepts of Computing: Information Processing ........................................ 4
LA 101 Introduction to Paralegal Studies .............. 3
LA 128 Legal Procedures 2 .............................. 4
MTH 065 Elementary Algebra or higher .............. 4

Spring

Choice of:

COMM 105 Listening and Critical Thinking .................... 4
COMM 218 Interpersonal Communication ............... 4
COMM 219 Small Group Discussion ..................... 4
BA 214 Business Communications ..................... 3
LA 105 Civil Litigation .................................... 3
LA 132 Ethics for the Legal Professional ............... 3

Automotive Technology

Offered by the Advanced Technology Division, 541.463.5380

Associate of Applied Science Degree

Two-Year Certificate of Completion - Automotive Technology

Program Coordinator

Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

Purpose

To demonstrate an understanding of pretrial and trial procedures.

To develop questions for gathering information and facts in preparation for trial.

To evaluate and practice rules of ethics as they would apply to civil litigation.

To demonstrate an understanding of ethics as they relate to confidentiality, competence, fees, billing, conflicts of interest, and UPL.

To demonstrate an understanding of the purposes and functions of court rules, schedules, and procedures.

To demonstrate a basic knowledge of requirements for recording and filing documents with the proper court offices.

To demonstrate an understanding of and use a variety of legal office systems including document management and calendaring.

To demonstrate an understanding of and practice basic functions of legal billings and timekeeping, client relations, and litigation support.

To use law library, computing and communication services to obtain legal forms, information, and data from regional, national, and international networks.

To work independently within diverse business environments; apply individual strengths and critical thinking to collaborative efforts.

To use research and analytical skills to support the activities of the organization.

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- 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.
- 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 eligibility skill levels. Students who are unable to meet the minimum eligibility for English composition courses must complete WR115W and the PE/Health requirements must be passed with a “C-” or better to fulfill program requirements.
- 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.
- The LA course sequence is offered through Umpqua Community College Fall, Winter Spring and Winter, Spring, Summer.

Choice of:

Fall

WR 121 Academic Composition .......................... 4
WR 121_H Academic Composition Honors ........... 4
LA 100 Legal Procedures ................................. 4
LA 102 Legal Terminology ............................... 3
BT 108 Business Proofreading and Editing ......... 4

Winter

CS 120 Concepts of Computing: Information Processing ........................................ 4
LA 101 Introduction to Paralegal Studies .............. 3
LA 128 Legal Procedures 2 .............................. 4
MTH 065 Elementary Algebra or higher .............. 4

Spring

Choice of:

COMM 105 Listening and Critical Thinking .................... 4
COMM 218 Interpersonal Communication ............... 4
COMM 219 Small Group Discussion ..................... 4
BA 214 Business Communications ..................... 3
LA 105 Civil Litigation .................................... 3
LA 132 Ethics for the Legal Professional ............... 3
• See course descriptions for prerequisite information.
• For choices in Foundational Skills and Discipline Studies, see AAS degree description.
• 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.

### Prerequisites

**AM 245 Introduction to Hybrid Vehicles** (optional elective) ............................................................... 4

#### First Year

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>MTH 085 Applied Geometry for Technicians ........................................ 4</td>
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<tr>
<td></td>
<td>AM 243 Electrical and Electronic Systems ........................................ 12</td>
</tr>
<tr>
<td>Winter</td>
<td>AM 145 Engine Repair ........................................................................... 12</td>
</tr>
<tr>
<td></td>
<td>WLD 121 Shielded Metal Arc Welding 1 .............................................. 4</td>
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<td></td>
<td>PE/Health Requirement ......................................................................... 3</td>
</tr>
<tr>
<td>Spring</td>
<td>AM 147 Suspension and Steering .......................................................... 6</td>
</tr>
<tr>
<td></td>
<td>AM 149 Manual Drive Trains and Axles ................................................ 6</td>
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<tr>
<td></td>
<td>WR 115W Introduction to College Writing: Workplace Emphasis .............. 3</td>
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<tr>
<td></td>
<td><strong>AM 124 Engine Performance</strong> ................................................................ 12</td>
</tr>
<tr>
<td></td>
<td><strong>CG 203 Human Relations at Work</strong> .................................................... 3</td>
</tr>
<tr>
<td>Fall</td>
<td><strong>Choice of:</strong> COMM 100 Basic Communications ..................................... 8</td>
</tr>
<tr>
<td></td>
<td>COMM 105 Listening and Critical Thinking .......................................... 4</td>
</tr>
<tr>
<td></td>
<td>COMM 218 Interpersonal Communications ............................................ 4</td>
</tr>
<tr>
<td>Winter</td>
<td><strong>AM 244 Engine Performance</strong> ................................................................ 12</td>
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<tr>
<td></td>
<td><strong>AM 246 Heating and Air Conditioning</strong> ............................................ 4</td>
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<tr>
<td></td>
<td><strong>CS 120 Concepts of Computing: Information Processing</strong> ..................... 4</td>
</tr>
<tr>
<td></td>
<td><strong>ET 129 Electrical Theory</strong> .................................................................. 4</td>
</tr>
<tr>
<td>Spring</td>
<td><strong>AM 248 Automatic Transmissions/Transaxles</strong> ..................................... 12</td>
</tr>
<tr>
<td></td>
<td><strong>AM 245 Introduction to Hybrid Vehicles</strong> ......................................... 4</td>
</tr>
<tr>
<td></td>
<td><strong>AM 280 Co-op Ed: Automotive</strong> ......................................................... 3</td>
</tr>
</tbody>
</table>

### Automotive Technology

**Offered by the Advanced Technology Division**, 541.463.5380

**Program Coordinator** Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

**Purpose** To prepare the graduate for employment as an Automotive Service Technician working at company-owned repair stations, fleets, independent garages, gas stations, or new car dealerships.

**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.
- successfully complete ASE certification tests.
- demonstrate and use industry safety 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.

**Admission Information** lanec.edu/advtech/at/admission-information or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

**Advising and Counseling** classes.lanecc.edu/course/view.php?id=31255

### 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 Chuck Fike, Automotive Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206. 541.463.5078, fikec@lanecc.edu

**Job Openings Projected through 2020**

- **Lane County**: 21 positions
- **Statewide**: 303 positions

**Wages**

- Lane County average hourly - $19.53; average annual - $40,612
- Oregon average hourly - $19.95; average annual - $41,499

**Costs** (Estimates based on 2016-17 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>Books</th>
<th>Differential Fees*</th>
<th>Instruments/Tools</th>
<th>Program Specific Fees</th>
<th>Resident Tuition and General Student Fees</th>
<th>Total Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$903</td>
<td>$2,543</td>
<td>$2,750</td>
<td>$1,080</td>
<td>$10,920</td>
<td>$18,196</td>
</tr>
</tbody>
</table>

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

**Gainful Employment Disclosure**

49-3023.01

Standard Occupational Classification: 43-3023.01 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

In academic year 2014-15, 9 students completed this certificate.

The program is designed to take 8 terms, or about 24 months of study to complete.

Lane Community College is committed to protecting student privacy and does not publish this rate for fewer than 10 graduates.

For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates.

**Explanation of costs:** lanec.edu/esfs/credit-fees-and-expenses

**Course Requirements**

- 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.
- WR 115W and the PE/Health courses must be completed with a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
Pass or “C-” or better to fulfill program requirements.
• See course descriptions for prerequisite information.
• 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.

Prerequisites
AM245 Introduction to Hybrid Electric Vehicles
(Other Elective) ........................................................... 4

First Year
Fall AM 243 Electrical and Electronic Systems ................. 12 MTH 085 Applied Geometry for Technicians ................. 4
Winter AM 145 Engine Repair ........................................... 12 WLD 121 Shielded Metal Arc Welding 1 ....................... 4
Spring AM 147 Suspension and Steering .......................... 6 AM 149 Manual Drive Trains and Axles .......................... 6
PE/Health Elective ....................................................... 3

Second Year
Fall AM 143 Brakes ................................................................ 8
AM 246 Heating and Air Conditioning ............................... 4
WR 115W Introduction to College Writing: Workplace Emphasis ............................................. 3
Winter AM 244 Engine Performance .................................... 12
CG 203 Human Relations at Work ................................. 3
Spring AM245 Introduction to Hybrid Electric Vehicles
(Other Elective) ........................................................... 4
AM 242 Automatic Transmissions/Transaxles ................. 12
AM 280 Co-op Ed: Automotive ..................................... 3

Aviation Maintenance Technician
Offered by the Aviation Academy, 541.463.4195
Associate of Applied Science Degree
Two-Year Certificate of Completion - Aviation Maintenance Technician
Program Coordinator Stephen Boulton, Aviation Academy Director, Eugene Airport Campus, 541.463.4302, boultons@lanecc.edu

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 certificate.

Learning Outcomes The student who successfully completes all Aviation Maintenance Technician requirements 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.

Accreditation Aviation Maintenance, approved under Part 147 of the Federal Aviation Regulations of the Federal Aviation Administration

Advising and Counseling Aviation Maintenance Program Advisors are:
• Carolyn Litty: Office: Bldg. 12, Rm. 202, Phone: 541.463.5236, Email: litty@lanecc.edu
• Trish Lytton, Phone: 541.463.5292 Email: lyttonp@lanecc.edu
• Claudia Riumallo: Office: Bldg. 12, Rm. 203, Phone: 541.463.5378, Email: riumalloc@lanecc.edu

Advisor Drop-in hours are updated weekly at: lanecc.edu/advtech/counselor-and-advisor-drop-hours

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 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 Chuck Fike, Aviation Maintenance Co-op Coordinator, Bldg. 19, Rm. 266 or Bldg 12, Rm 209, 541.463.5078, fikec@lanecc.edu
Job Openings Projected through 2020
Lane County openings - 5 annually
Statewide openings - 34 annually
Graduates may have many opportunities nationally.

Wages
Lane County average hourly - $25.88 average annual - $53,820
Oregon average hourly - $27.18; average annual - $56,537

Costs Estimate based on 2016-17 costs. All amounts are subject to change. See the online credit class schedule for the most current information.

Books ................................................................. $500
Certification, Licensure, Exams, Physicals .................... $1,300
Instruments/Tools .................................................. $2,100
Program Specific Fees ............................................ $2,700
Resident Tuition and General Student Fees ..................... $12,573

Total Estimated Cost $19,173

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• See course descriptions for prerequisite and corequisite information.
• 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.
• WR and PE/Health requirement must be passed with a Pass or ‘C-’ or better to fulfill program requirements.
• MTH 060 and 065 or MTH 070 may substitute for MTH 075.
• MTH 075 or equivalent is a prerequisite but in any case must be completed before the end of the First Year.
• MTH 085 (or higher math) must be taken no later than the second winter term.
• WR 115W Introduction to College Writing: Workplace Emphasis or higher writing is a prerequisite but in any case must be completed before the end of the Second Year.
• Foundational Skills (except MTH) and Discipline Studies are not required for two-year FAA Airframe and Powerplant airman’s certificate exams.
• For choices in Foundational Skills and Discipline Studies, see AAS degree description.
• graduates may also transfer to a four-year university preparing for a professional degree.
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 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 Chuck Fike, Aviation Maintenance Co-op Coordinator, Bldg. 19, Rm. 266 or Bldg 12, Rm. 208, 541.463.5078, fikec@lanecc.edu

Job Openings Projected through 2020
Lane County: 5 positions
Statewide: 34 positions
Graduates may have many opportunities nationally.

Wages
Lane County hourly average - $25.88; annual average - $53,820
Oregon hourly average - $27.18; annual average - $56,537

Costs Estimate based on 2016-17 costs and are subject to change. See the online credit class schedule for the most current information.

Books $500
Certification, Licensure, Exams, Physicals $1,300
Instruments/Tools $2,100
Program Specific Fees $2,700
Resident Tuition and General Student Fees $12,250

Total Estimated Cost $18,850

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Gainful Employment Disclosure
49-3011.00

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 Office Clerks, General onetonline.org/link/summary/43-9061.00

In academic year 2014-15, 15 students completed this certificate.

The program is designed to take 8 terms, or about 24 months of study to complete.

Of students who completed this certificate in the 2014-15 academic year, 80% completed on time. Note: The federally required method for calculating this rate assumes students will declare their completion program major immediately, enroll full-time each term, and remain enrolled at Lane continuously until they complete their program. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change majors, and brush-up on their academic skills to be better prepared for college level courses, all of which affect this narrowly defined on-time graduation rate.

The median loan debt incurred by students who completed the program in 2014-15 = $0.

Explanation of costs: lanecc.edu/esfs/credit-fees-and-expenses

Course Requirements
- See course descriptions for prerequisite and corequisite information.
- 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.
- MTH 060 and 065 or MTH 070 may substitute for MTH 075.
- MTH 075 is a prerequisite, but in any case must be completed before the end of the first year.
- MTH 085 (or higher) must be completed no later than the second winter term.
- WR and PE/Health requirement must be passed with a Pass or “C” or better to fulfill program requirements.
- WR 115W is a prerequisite and should be taken before the first year.

Prerequisites
MTH 075 Applied Algebra for Technicians .................. 4
WR 115W Introduction to College Writing: Workplace Emphasis .................................................. 3

First Year
Fall
AV 193 General 102 ........................................... 6
AV 192 General 101 ........................................... 6

Winter
PE/Health Elective ........................................... 3
AV 279 Airframe (Section 2) ............................... 6
AV 196 General 105 ........................................... 6
AV 194 General 103 ........................................... 6

Spring
AV 195 General 104 ........................................... 6
AV 279 Airframe (Section 3 and 4) ....................... 12

Second Year
Fall
Human Relations requirement ............................. 3
AV 281 Powerplant (Section 1 and 2) .................... 12
AV 279 Airframe (Section 1) ............................... 6

Winter
MTH 085 Applied Geometry for Technicians ........... 4
AV 281 Powerplant (Section 3 and 4) .................... 12

Spring
AV 283 Powerplant Return to Service ................... 6
AV 282 Airframe Return to Service ..................... 6

Business Assistant
Offered by the Business Department, 541.463.5221

One-Year Certificate of Completion

Program Coordinator Business Department, Bldg. 19, Rm. 137, 541.463.5221

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:
- 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.
- work independently within diverse business environments; apply individual strengths and critical thinking to collaborative efforts.
- 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.
- 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.
- 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.

Job Openings Projected through 2020
Lane County: 32 positions
Statewide: 384 positions

Wages
Lane County average hourly - $13.75; average annual - $28,616
Oregon average hourly - $14.15; average annual - $29,443

Costs (Estimates based on 2016-17 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Books ......................................................... $2,038
Computers/Internet Service ................................ $1,500
Resident Tuition and General Student Fees ................. $5,814
Total Estimated Cost $9,352

Gainful Employment Disclosure
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. Consult Lane’s website for updated tuition and fees.

In academic year 2014-15, 18 students completed this certificate. The program is designed to take 4 terms, or about 15 months of study to complete.

Of students who completed this certificate in the 2014-15 academic year, 6% completed on time. Note: The federally required method for calculating this rate assumes students will declare their completion program major immediately, enroll full-time each term, and remain enrolled at Lane continuously until they complete their program. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change majors, and brush-up on their academic skills to be better prepared for college level courses, all of which affect this narrowly defined on-time graduation rate.

The median loan debt incurred by students who completed the program in 2014-15 = $19,439.

Explanation of costs: lanec.edu/esfs/credit-fees-and-expenses

Course Requirements
- See course descriptions for prerequisite requirements
- Students must place at least into WR 121 or WR 121_H and MTH
Associate of Applied Science (AAS) degree will be prepared for posi-
tions in management, marketing, and accounting. The degree includes electives to enable students to focus on one business area or develop a general background prior to assuming management positions.

Learning Outcomes The student who successfully completes all Business Management requirements will:

- demonstrate an understanding of the functions of leading, planning, organizing, and controlling in an organization.
- make informed business decisions based on the use analysis of financial and budgetary data.
- select appropriate marketing strategies for an organization.
- apply critical thinking and analytical skills in decision-making and problem solving.
- use software including word processing, spreadsheets, and databases to manage and interpret information to meet organizational needs.
- perform on the job in ways that reflect professional ethics, legal standards, and organizational expectations.
- apply adaptive managerial, supervisory and leadership practices in a variety of situations.
- contribute to the planning, implementation, and evaluation of organizational goals and work products.

Job Openings Projected through 2020
Lane County openings - 91 annually
Statewide openings - 1,121 annually

Wages
Lane County average hourly - $42.32; average annually - $88,012
Oregon average hourly - $49.16; average annually - $102,249

Course Requirements
- An approved 3-credit Health class can be substituted for the PE requirements. Please speak with your academic advisor.
- All program core courses (BA, BT) 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.
- Foundational Requirements (writing, math, communication and Health/Wellness/Fitness courses) may be completed with a grade of “C-” or a “Pass”

First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
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<td>Fall</td>
<td>CG 203</td>
<td>Human Relations at Work</td>
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<tr>
<td></td>
<td>BT 120</td>
<td>MS WORD for Business</td>
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<tr>
<td></td>
<td>CS 120</td>
<td>Concepts of Computing: Information Processing</td>
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<td>WR 121</td>
<td>Academic Composition</td>
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Winter

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<td>MS EXCEL for Business</td>
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<td>BT 165</td>
<td>Introduction to the Accounting Cycle</td>
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<td>MTH 065</td>
<td>Elementary Algebra or higher</td>
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Spring

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<th>Course Code</th>
<th>Course Title</th>
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<td>Management Fundamentals</td>
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<td>BA 214</td>
<td>Business Communications</td>
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<td>BT 163</td>
<td>QuickBooks</td>
<td>4</td>
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<tr>
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<td>BT 206</td>
<td>Co-op Ed: Business Seminar</td>
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<td>Choice of:</td>
<td></td>
<td></td>
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<td></td>
<td>BT 144</td>
<td>Administrative Procedures</td>
<td>3</td>
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<tr>
<td></td>
<td>BA 281</td>
<td>Personal Finance</td>
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</table>

Business Management

Offered by the Business 541.463.5221

Associate of Applied Science Degree

Program Coordinator LuAnne Johnson 541.463.5221

Purpose Students completing the Business Management Associate of Applied Science (AAS) degree will be prepared for positions in management, marketing, and accounting. The degree includes electives to enable students to focus on one business area or develop a general background prior to assuming management positions.

Learning Outcomes The student who successfully completes all Business Management requirements will:

- demonstrate an understanding of the functions of leading, planning, organizing, and controlling in an organization.
- make informed business decisions based on the use analysis of financial and budgetary data.
- select appropriate marketing strategies for an organization.
- apply critical thinking and analytical skills in decision-making and problem solving.
- use software including word processing, spreadsheets, and databases to manage and interpret information to meet organizational needs.
- perform on the job in ways that reflect professional ethics, legal standards, and organizational expectations.
- apply adaptive managerial, supervisory and leadership practices in a variety of situations.
- contribute to the planning, implementation, and evaluation of organizational goals and work products.

Computer Information Systems

Offered by the Computer Information Technology Department, 541.463.5221

Associate of Applied Science Degree

Accounting Applications Option
Geographic Information Systems Option
Programming Option

Program Coordinator Contact the CIT Dept., Bldg. 19, Rm. 137, 541.463.5221

Purpose To train entry level computer support specialists OR computer power users to work in a variety of organizational settings.
Learning Outcomes: Graduates will be able to:
- use and assist users with the fundamental features of operating system, spreadsheet, and database software.
- find solutions to fundamental computer related problems using known problem solving methods.
- demonstrate understanding of fundamental computer networking concepts.
- apply standard project management techniques.
- work as a member of a team.

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. Gerry Meenaghan, Cooperative Education Coordinator, Bldg. 19, Rm. 154, 541.463.5883.

Job Openings Projected through 2020
Lane County openings - 18 annually
Statewide openings - 256 annually

Wages
Lane County average hourly - $16.46; average annual - $34,236
Oregon average hourly - $18.31; average annual - $38,084

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane's website for updated tuition.)
- Books $2,110
- Program Specific Fees $208
- Resident Tuition and General Student Fees $10,478

Total Estimated Cost $12,796

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Prerequisites are required for some courses. See course descriptions
- All courses must be completed for a letter grade of C, except for the Communications, Writing, Math, PE/Health, and Human Relations requirements and CS 206 which may be completed with a “Pass” grade
- 2ND YEAR - A personal laptop is recommended for second-year students in the degree program. Please contact the CIT Department for options and system requirements
- Students are required to take a minimum of two elective clusters.
- Some elective clusters may require additional pre-requisites: consult the course catalog for pre-requisites.
- Pathway certificates are available for some elective clusters.

First Year
CIS 100 Computing Careers Exploration ................................. 1
CIS 140W Introduction to Operating Systems: Windows Clients .......................................................... 4
MTH 095 Intermediate Algebra or higher .............................. 5
CS 120 Concepts of Computing: Information Processing ......................... 4

Winter
HIM 101 Introduction to Health Care and Public Health in the US .................................................. 4
CIS 125M Software Tools: Mobile Development ......................... 4
CS 179 Introduction to Computer Networks ........................... 4
Choice of:
- WR 121 Academic Composition
- WR 121_H Academic Composition-Honors ................................. 4

Spring
CG 203 Human Relations at Work .......................................... 3
CIS 125D Software Tools 1: Databases ..................................... 4
CS 206 Co-op Ed: Computer Information Technology Seminar .................................................. 2

CS 133P Beginning Programming: Python ......................... 4
GIS 151 Digital Earth .............................................................. 4

Second Year
Fall
WR 227 Technical Writing ...................................................... 4
CIS 195 Web Authoring 1 ........................................................... 3
CIS 244 Systems Analysis ......................................................... 4
MTH 082 Math for Network Operations ................................. 4

Winter
Choice of:
- COMM 111 Fundamentals of Public Speaking
- COMM 130 Business and Professional Speech
- COMM 218 Interpersonal Communication
- COMM 219 Small Group Discussion
- COMM 220 Communications, Gender, and Culture .................. 4
- CS 279 Essentials of Network Administration ........................ 4
- CIS 225 Computer End-User Support ....................................... 4
- BT 123 MS EXCEL for Business ........................................... 4

Spring
CS 280IS Co-op Ed: Computer Information Systems ............... 3
CIS 245 Project Management ..................................................... 4
CS 240W Advanced Windows: Server Management ................. 4
Elective ................................................................. 4

Computer Information Systems: Accounting Applications Option

Offered by the Computer Information Technology Department, 541.463.5221

Associate of Applied Science Degree Option

Learning Outcomes: In addition to the core Computer Information Systems learning outcomes, the graduate of the Accounting Applications Option will also be able to:
- understand accounting as both an information system and the language of business.
- use computerized and manual systems to record data and prepare accounting statements and reports.
- use software including spreadsheets, and databases to input, manage, and interpret information to meet organizational needs.

Job Openings Projected through 2020
Lane County openings - 256 annually
Statewide openings - 18 annually

Wages
Lane County average hourly - $16.46; average annual - $34,236
Oregon average hourly - $18.31; average annual - $38,084

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane's website for updated tuition.)
- Books $1,552
- Program Specific Fees $208
- Resident Tuition and General Student Fees $10,478

Total Estimated Cost $12,238

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

First Year
Fall
CIS 100 Computing Careers Exploration ................................. 1
CIS 140W Introduction to Operating Systems: Windows Clients .......................................................... 4
CS 120 Concepts of Computing: Information Processing ......................... 4

Winter
HIM 101 Introduction to Health Care and Public Health in the US .................................................. 4
CIS 125M Software Tools: Mobile Development ......................... 4
CS 179 Introduction to Computer Networks ........................... 4
Choice of:
- WR 121 Academic Composition
- WR 121_H Academic Composition-Honors ................................. 4

Spring
HIM 101 Introduction to Health Care and Public Health in the US .................................................. 4
CIS 125M Software Tools: Mobile Development ......................... 4
CS 179 Introduction to Computer Networks ........................... 4
Computer Information Systems
Geographic Information Systems Option

Offered by the Computer Information Technology Department, 541.463.5221

Associate of Applied Science Degree Option

Learning Outcomes The graduate of the Geographic Information Systems Option will also be able to:
• collect and input data into a GIS system.
• create, manage and update spatial data.
• design and generate various cartographic products for planning or presentations.

Job Openings Projected through 2020
Lane County openings - 2 annually
Statewide openings - 31 annually

Wages
Lane County average hourly - $17.33; average annual - $36,046
Oregon average hourly - $19.68; average annual - $40,934

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)
Books ................................................................. $1,552
Program Specific Fees .............................................. $208
Resident Tuition and General Student Fees .................. $10,478
Total Estimated Cost $12,238

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

GIS courses (151, 245, and 246) are being reviewed with possible updates being made in the future. Contact Counseling and Advising at 541.463.3200 for information about these GIS courses.

First Year
CIS 100 Computing Careers Exploration ....................... 1

CIS 140W Introduction to Operating Systems:
Windows Clients ................................................. 4
CS 120 Concepts of Computing: Information
Processing ........................................................... 4
MTH 095 Intermediate Algebra or higher ................. 5

Winter
Choice of:
WR 121 Academic Composition
WR 121_H Academic Composition - Honors .......... 4
HIM 101 Introduction to Health Care and Public Health in the US ................................................. 4
CIS 125M Software Tools: Mobile Development .......... 4
CS 179 Introduction to Computer Networks ............. 4

Spring
CG 203 Human Relations at Work ......................... 3
CIS 125D Software Tools 1: Databases .................. 4
CS 206 Co-op Ed: Computer Information Technology
Seminar .............................................................. 2
CS 133P Beginning Programming: Python ............. 4

Second Year
Fall
BT 272 Tax concepts and Preparation .................. 4
BT 165 Introduction to the Accounting Cycle .......... 4
CIS 195 Web Authoring I .................................... 3
CS 280IS Co-op Ed: Computer Information Systems ... 4

Winter
BT 120 MS WORD for Business ....................... 4
BT 123 MS EXCEL for Business ...................... 4
BA 211 Financial Accounting ............................ 4

Choice of recommended Communication courses:
COMM 111 Fundamentals of Public Speaking
COMM 130 Business and Professional Speech
COMM 218 Interpersonal Communication
COMM 219 Small Group Discussion
COMM 220 Communication, Gender and Culture .... 4

Spring
CS 280IS Co-op Ed: Computer Information Systems ... 3
CIS 245 Project Management .................................. 4
BT 163 QuickBooks ............................................. 4
BT 276 Automated Accounting Systems ................. 4

Second Year
Fall
CS 275 Database Systems and Modeling .............. 4
DRF 220 Building Information Modeling ............... 4
DRF 167 CAD 1 ................................................. 4

Winter
GIS 245 GIS 1 ..................................................... 4
GIS 246 GIS 2 ..................................................... 4
CS 276 Database SQL Programming .................. 4
CS 280IS Co-op Ed: Computer Information Systems ... 3

Computer Information Systems: Programming Option

Offered by the Computer Information Technology Department, 541.463.5221

Associate of Applied Science Degree Option

Learning Outcomes The graduate of the Programming Option will also be able to:
• design, implement, test and debug client side web based computer programs using a variety of current tools and technologies.
• design, implement, test and debug object oriented desktop computer programs using a variety of current tools and technologies.
• understand the mathematical concepts of a programming related problem solving task and translate them into programming logic and expressions.

Job Openings Projected through 2020
Lane County openings - 4 annually
Statewide openings - 43 annually

Wages
Lane County average hourly - $19.22; average annual - $39,978
Oregon average hourly - $22.19; average annual - $46,155

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)
Computer Network Operations

Offered by the Computer Information Technology Department, 541.463.5221

Associate of Applied Science Degree

Career Pathway Certificate - Computer Network Monitoring and Management

Career Pathway Certificate - Computer Network Security

Program Coordinator Joseph Colton, Bldg. 19, Room 144, 541.463.5249, coltonj@lanecc.edu

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 student who successfully completes all Computer Network Operations requirements will:

- install and configure workstations and servers.
- 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.
- demonstrate an understanding of network security issues and tools.
- demonstrate an understanding of the basic features of wireless networking.
- develop skills for doing network performance monitoring.
- 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.

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. 154, 541.463.5883.

Job Openings Projected through 2020

Lane County openings - 18 annually
Statewide openings - 256 annually

Wages
Lane County average hourly - $21.52; average annual - $44,745
Oregon average hourly - $24.83; average annual - $51,660

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)

Books ....................................................... $1,540
Program Specific Fees ............................................ $208
Resident Tuition and General Student Fees ....................... $10,099

Total Estimated Cost $11,847

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- All courses must be completed for a letter grade of C+, except for the Communications, Writing, Math, PE/Health, and Human Relations requirements and CS 206 which may be completed with a “Pass” grade.
- 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, 260 Discrete Mathematics 1, 2, 3.
- The Computer Network Operations degree contains 3 second-year CS/CIS/GIS electives. Students may want to consider using electives to take a sequence of courses from the Network Security certificate curriculum, or from one of the other degrees or certs.
- For more information about electives, students should contact the program lead to help determine what elective courses best fit their goals.
- Instead of CS 133P and CS 233P the student may take any two required programming courses that are a sequence from one of the other CIT degree programs.
- Approved Communication Electives: COMM 100 - Basic Communications COMM 111 Fundamentals of Public Speaking COMM 112 - Persuasive Speech COMM 130 Business and Professional Speech COMM 219 Small Group Discussion COMM 220 - Comm., Gender and Culture
- Second-Year Requirements - A personal laptop is recommended for second-year students in the degree program. Please contact the Program Lead for options and system requirements.
First Year

Fall
CS 100 Computing Careers Exploration............................. 1
CS 179 Introduction to Computer Networks ......................... 4
CS 140W Introduction to Operating Systems: Windows Clients ......................................................... 4
Choice of: MTH 082 Math for Network Operations ............. 4-5

Winter
CS 206 Co-op Ed: Computer Information Technology Seminar ................................................................. 2
PE/Health Requirement .................................................. 3
CS 125D Software Tools 1: Databases........................................... 4
CS 279 Essentials of Network Administration ....................... 4
CS 287 Microcomputer Hardware ........................................ 4

Spring
Human Relations Requirement
CG 203 Human Relations at Work recommended ............. 3-4
CS 133P Beginning Programming: Python............................ 4
CS 240W Advanced Windows: Server Management ............ 4
Choice of: WR 121 Academic Composition...................... 4
WR 121_H Academic Composition - Honors .................... 4

Second Year

Fall
CS/CIS/GIS Elective
CS188 Wireless Networking recommended .................... 4
CS 233P Intermediate Programming: Python ..................... 4
CS 140U Introduction to Unix/Linux............................... 4
CS 284 Network Security Fundamentals .......................... 4
Choice of:
CIS 225 Computer End-User Support ......................... 4
CIS 245 Project Management ....................................... 4
CS/CIS/GIS Elective
CS 285 Operating Systems Hardening recommended .... 4
CS 289 Cisco Router and Switch Administration ............ 4
CS 240U Advanced Unix/Linux: Server Management .......... 4

Winter
Choice of:
CS 226 SQL Database Management ............................. 4
CS 227 Programming with Python ............................... 4
CS/CIS/GIS Elective
CS 287 Microcomputer Hardware .................................. 4
CS 188 Wireless Networking ....................................... 4
CS 233P Intermediate Programming: Python ................. 4
CS 140U Introduction to Unix/Linux ......................... 4
CS 284 Network Security Fundamentals ..................... 4

Spring
CS/CIS/GIS Elective or Communication Elective
CS 286 Firewalls and VPNs recommended ..................... 4
CS 280CN Co-op Ed: Computer Network Operations .......... 3
CS 288 Network Monitoring and Management ............... 4
WR 227 Technical Writing ........................................... 4

Computer Network Monitoring and Management
Offered by the Computer Information Technology Department, 541.463.5221

Career Pathway Certificate

Program Coordinator Joseph Colton, Bldg. 19, Room 144, 541.463.5249, colton@lanec.edu

Purpose
Prepare graduates to manage and monitor modern computer networks efficiently.

Learning Outcomes
The student who successfully completes all Computer Network Monitoring and Management requirements will:
- understand the performance fundamentals required to keep computer networks efficient.
- install and configure Windows and Linux servers and Cisco routers and switches.
- identify sources of network performance problems and resolve them.
- implement the SNMP protocol on various networked devices.
- understand the importance of proactive management and planning for growth.

- install and configure an enterprise network monitoring package to track performance and availability of services.
- learn how to implement event handlers and notification/alert systems.
- learn to use protocol analysis software to monitor traffic and solve network problems.

Course Requirements
- All courses must be completed with a letter grade of “C-” or better.

Computer Network Security
Offered by the Computer Information Technology Department, 541.463.5221

Career Pathway Certificate

Program Coordinator Don Easton, Bldg.19 Rm. 148

Purpose
To train those who already have networking skills to secure workstations, servers, and other networking devices.

Learning Outcomes
The student who successfully completes all Computer Network Security requirements will:
- understand the security 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.

Course Requirements
- All courses must be completed with a letter grade of “C-” or better.

Computer Programming
Offered by the Computer Information Technology Department, 541.463.5221

Associate of Applied Science Degree

Career Pathway Certificate - Database Specialist

Career Pathway Certificate - Mobile Application Development

Program Coordinator Mari Good, Bldg. 19, Rm. 158, 541.463.5838, goodm@lanec.edu

Purpose
To prepare technicians for entry-level positions as software developers.

Learning Outcomes
The student who successfully completes all Computer Programming requirements 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.
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.

Job Openings Projected through 2020
Lane County openings - 11 annually
Statewide openings - 170 annually

Wages
Lane County average hourly - $32.22; average annual - $67,021
Oregon average hourly - $40.33; average annual - $83,876

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane's website for updated tuition.)
Books .......................................................... $2,543
Program Specific Fees ....................................... $208
Resident Tuition and General Student Fees ................. $10,203
Total Estimated Cost $12,954
*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• Communications, Writing, Math, PE/Health, and Human Relations requirements and CS 206 may be completed with a ‘Pass’ grade.
• CS 133N, CS 233N, and CS 234N must be completed for a letter grade of B-. All other courses must be completed for a letter grade of C-.
• For more specific information about the Fall/Winter/Spring CS/CIS/GIS elective sequences please contact the Program Lead 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 electives.
• Students who complete the Computer Programming Degree will have completed all of the coursework to earn the Database Specialist Career Pathway Certificate.
• Second Year Requirements - A personal laptop is recommended for second-year students in the degree program. Please contact the Program Lead for options and system requirements.

First Year
Communications Elective choice of:
COMM100 Basic Communications
COMM111 Fundamentals of Public Speaking
COMM112 Persuasive Speech
COMM130 Business and Professional Speech
COMM219 Small Group Communication
COMM220 Communication, Gender and Culture ........ 4
CIS 100 Computing Careers Exploration .................. 1
CS 133N Beginning Programming: C# .................... 4
CIS 195 Web Authoring 1 ................................... 3
PE/Health requirement ........................................ 3

Winter
Choice of:
WR 121 Academic Composition
WR 121 Academic Composition - Honors ................. 4
ART 288 Introduction to Web Design ....................... 3
CS 233N Intermediate Programming C# ................ 4
CG 203 Human Relations at Work ....................... 3
CS 133JS Beg. Programming: JavaScript ................ 4

Spring
CS/CIS/GIS Elective
CS 295P Web Development 1: PHP recommended .... 4
MTH 095 Intermediate Algebra or higher ................ 5
CIS 125D Software Tools 1: Databases ................ 4
CS 234N Advanced Programming: C# .................. 4

Second Year
Fall
CS/CIS/GIS Elective
CS 296P Web Development 2: PHP recommended .... 4
CIS 244 Systems Analysis .................................... 4
CS 295N Web Development 1: ASP.NET ................ 4
WR 227 Technical Writing ................................... 4
CS 206 Co-op Ed: Computer Information Technology Seminar ........................................... 2

Winter
CS 275 Database Systems and Modeling .................. 4
CS 296N Web Development 2: ASP.NET ................ 4
CS 246 System Design ........................................ 4
CS/CIS/GIS Elective ............................................ 4

Spring
CS/CIS/GIS Elective ............................................ 4
CS 280PR Co-op Ed: Computer Programming .......... 3
CS 276 Database SQL Programming ..................... 4
CS 297 Programming Capstone ................................ 5

Database Specialist
Offered by the Computer Information Technology Department, 541.463.5221

Career Pathway Certificate
Program Coordinator Mari Good, Bldg. 19, Rm. 158, 541.463.5838, goodm@lanecc.edu
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.
• translate database related problems into SQL logic and expressions.
• use appropriate library and information resources to research database technologies and support lifelong technical learning.

Course Requirements
• All courses must be completed with a letter grade of ‘C-’ or better
• Prerequisites are required for some courses. See course descriptions
• 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, 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.

Winter
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
CIS 76R Data Integration Analytics and Reports .......... 4

Mobile Application Development
Offered by the Computer Information Technology Department, 541.463.5221

Career Pathway Certificate
Program Coordinator Brian Bird, Bldg. 19, Rm. 152, 541.463.3024, birdb@lanecc.edu
Purpose To prepare technicians for entry-level positions as mobile application programmers.
Learning Outcomes: The student who successfully completes all Mobile Application Development requirements will:

- design, implement, test, debug and document mobile application-based computer programs using a variety of current tools and technologies.
- understand the use of mobile application programming to support 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.

Course Requirements:
- Prerequisites are required for some courses. See course descriptions.
- All courses must be completed with a letter grade of 'C-' or better.
- Students completing the Computer Programming AAS degree must complete CS 133N and CS 233N with a letter grade of 'B-' or better.
- Students are expected to be comfortable working on a computer, including the ability to create files with a text editor and manage file folders.

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 133N Beginning Programming: C#</td>
<td>4</td>
</tr>
<tr>
<td>CS 233N Intermediate Programming C#</td>
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</tr>
<tr>
<td>CS 235IM Introduction to Mobile Applications Development: iOS</td>
<td>4</td>
</tr>
<tr>
<td>CS 235AM Intermediate Mobile Application Development: Android</td>
<td>4</td>
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</tbody>
</table>

Computer Simulation and Game Development

Offered by the Computer Information Technology Department, 541.463.5221

Associate of Applied Science Degree

Program Coordinator: Jim Bailey, Bldg. 19, Rm. 146, 541.463.3148, baileyj@lanecc.edu

Purpose: To prepare students for entry-level positions in the simulation and game development industries or to transfer to a four-year school for additional education.

Learning Outcomes: The student who successfully completes all Computer Simulation and Game Development requirements will:

- create computer simulations or games using industry standard development tools.
- design, program, test, debug and document computer simulation or game programs using a variety of current tools and technologies.
- develop programming knowledge and skills with a current commercial programming language.
- develop skills and knowledge in computer animation using industry standard tools.
- learn mathematical concepts related to simulation and game development and use those concepts in class projects.
- use appropriate library and information resources to research simulation and game development issues, programming tools and technologies and to support lifelong technical learning.

Cooperative Education (Co-op): Co-op is a required and important part of the Computer Simulation and Game Development 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.

Job Openings Projected through 2020

Lane County openings - 11 annually
Statewide openings - 170 annually

Wages

Lane County average hourly - $32.22; average annual - $67,021
Oregon average hourly - $40.33; average annual - $83,876

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)

Books ............................................................... $1,345
Computers/Internet Service ................................... $1,500
Program Specific Fees ............................................ $208
Resident Tuition and General Student Fees ............... $10,726

Total Estimated Cost $13,779

Course Requirements:

- Prerequisites are required for some courses. See course descriptions.
- All courses must be completed with a letter grade of 'C-' or better except for Communications, Writing, Math, PE/Health, and Human Relations requirements and CS 206 which may be completed with a ‘Pass’ grade.
- 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 Program Lead for options and system requirements.

First Year

Fall
- CIS 100 Computing Careers Exploration.................. 1
- CIS 125G Software Tools 1: Game Development........ 4
- CIS 161C+ Computer Science 1............................. 4
- Elective .................................................................. 4

Winter
- Choice of:
  - MTH112 Trigonometry
  - MTH252 Calculus 2
  - MTH 231 Discrete Mathematics 1.......................... 4
  - FA 221 Computer Animation.................................. 4
  - CS 162C+ Computer Science 2............................. 4
  - ART 245 Drawing for Media.................................. 4

Spring
- CS 233N Intermediate Programming C# ................. 4
- CIS 126 Game Design: Principles and Practices......... 4
- FA 222 Computer Animation 2................................ 4

Second Year

Fall
- CS 260 Data Structures 1..................................... 4
- CS 206 Co-op Ed: Computer Information Technology 2
- Choice of:
  - WR 121 Academic Composition
  - WR 121_H Academic Composition - Honors............. 4
  - PE/Health Requirement....................................... 3
  - CIS 135G Software Tools 2: Game Development........ 4

Winter
- Elective .................................................................. 4
- CS 246 System Design.......................................... 4
- WR 227 Technical Writing..................................... 4
- Communication Requirement................................. 4

Spring
- Elective .................................................................. 4
- CS 297 Programming Capstone.............................. 5
- Human Relations requirement......................... 3-4
- CG 203 Human Relations at Work recommended........ 3-4
- CS 280GD Co-op Ed: Computer Simulation and Game Development.........................
Construction Technology

Offered by the Advanced Technology Division, 541.463.5380

Associate of Applied Science Degree

One-Year Certificate of Completion - Construction Technology

Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

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 Upon completion of this degree, 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.

Admission Information See lanecc.edu/advtech/cst or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Advising and Counseling classes.lanecc.edu/course/view.php?id=31255

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 Chuck Fike, Construction Technology Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206. 541.463.5078, fkec@lanecc.edu

Job Openings Projected through 2020
Lane County openings - 34 annually
Statewide openings - 590 annually

Wages
Lane County average hourly - $23.39; average annual - $48,645
Oregon average hourly - $22.48; average annual - $46,754

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)
Books................................................................. $2,185
Instruments/Tools .............................................. $250
Program Specific Fees............................................ $465
Resident Tuition and General Student Fees........ $10,920

Total Estimated Cost $13,820

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

• For choices in Foundational Skills and Discipline Studies, see AAS degree description.
• See course descriptions for prerequisite and corequisite information.
• 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.

First Year

Fall
CIS 101 Computer Fundamentals........................................... 4
CST 110 Blueprint Reading 1.................................................. 3
CST 111 Construction Orientation and Environment............... 2
CST 118 Building Construction.............................................. 5
MTH 085 Applied Geometry for Technicians......................... 4

Winter
WR 115 Introduction to College Writing................................... 4
CST 118 Building Construction.............................................. 5
CST 122 Construction Codes.................................................. 2
CST 211 Blueprint Reading 2.................................................. 3
PE/Health Elective............................................................... 3

Spring
CST 116 Construction Estimating............................................. 4
CST 118 Building Construction.............................................. 5
CST 119 Building Construction Surveying................................ 3
Human Relations Requirement.............................................. 3

Second Year

Fall
Directive Elective (see list of courses below)......................... 4
Science or Computer Science Course.................................... 3
Choice of:
DRF137 Architectural Plans
DRF211 Sustainable Building Systems............................... 4
CST 280 Co-op Ed: Construction......................................... 3

Winter
CST 280 Co-op Ed: Construction......................................... 6
Choice of:
Arts/Letters, Science or Computer Science course,
Social Science/Human Relations requirement..................... 3
Directed Electives (see list of courses below)......................... 8

Spring
Directed Electives: Apprenticeship/Electronics Courses
APR 101 Trade Skills Fundamentals...................................... 4
ET 129 Electrical Theory 1.................................................... 4
ET 130 Electrical Theory 2.................................................... 4

Directed Electives: Business Courses
BA 101 Introduction to Business......................................... 4
BT 165 Introduction to the Accounting Cycle......................... 4

Directed Electives: Drafting Courses
DRF 205 Drafting: Structures................................................ 4
DRF 207 Drafting: Strength of Materials.............................. 4

Directed Electives: Skill Development Courses
WLD 121 Shielded Metal Arc Welding 1............................ 4
WLD 122 Shielded Metal Arc Welding 2............................ 4

Directed Electives: Mathematics Courses
MTH 070 Introductory Algebra............................................. 5
MTH 075 Applied Algebra for Technicians......................... 4
MTH 095 Intermediate Algebra............................................. 5

Construction Technology

Offered by the Advanced Technology Division, 541.463.5380

One-Year Certificate of Completion

Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu
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:
- 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.

Admission Information See lanecc.edu/advtech/cst 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 Chuck Fike, Construction Technology Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206. 541.463.5078, fikec@lanecc.edu

Job Openings Projected through 2020
Lane County: 26 positions
Statewide: 579 positions

Wages
Lane County average hourly - $17.16; average annual - $35,680
Oregon average hourly - $17.99; average annual - $37,429

Costs (Estimates based on 2016-17 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Books ................................................................. $997
Instruments/Tools .................................................. $250
Program Specific Fees ........................................... $155
Resident Tuition and General Student Fees .................. $5,690
Total Estimated Cost ............................................. $7,092

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Gainful Employment Disclosure
47-2061.00

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

In academic year 2014-15, 6 students completed this certificate.
The program is designed to take 4 terms, or about 15 months of study to complete.
Lane Community College is committed to protecting student privacy and does not publish this rate for fewer than 10 graduates.
For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.

Explaination of costs: lanecc.edu/esfs/credit-fees-and-expenses

Course Requirements
- 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.
- WR and PE/Health requirement must be passed with a “C-” or better to fulfill program requirements.
- See course descriptions for prerequisite information.
- 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.

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>CIS 101 Computer Fundamentals</td>
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<tr>
<td>CST 122 Construction Codes</td>
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<tr>
<td>CST 211 Blueprint Reading 2</td>
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<tr>
<td>PE/Health Elective</td>
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<tr>
<td>WR 115 Introduction to College Writing</td>
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</tbody>
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<table>
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<tr>
<td>CST 118 Building Construction</td>
</tr>
<tr>
<td>CST 119 Building Construction Surveying</td>
</tr>
<tr>
<td>Human Relations Requirement</td>
</tr>
</tbody>
</table>

Construction Trades, General Apprenticeship

Offered by the Advanced Technology Division, 541.463.5380
Associate of Applied Science Degree

One-Year Certificate of Completion - Construction Trades, General Apprenticeship

Program Coordinator Joy Crump, Bldg. 15 Rm. 201, 541.463.5496, crumpj@lanecc.edu.

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 attitudes conducive to improved customer relations skills in the construction trades.
- demonstrate 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.
• complete 8000 hours State of Oregon-approved on-the-job training.

Licensing and Certification 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, ladder 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 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: 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.

Advising and Counseling lanecc.edu/advtech/counselor-and-advisor

Job Openings Projected through 2020

Carpenter
Job Openings Projected through 2022
Lane County openings - 34 annually
Statewide openings - 590 annually

HVAC
Job Openings Projected through 2022
Lane County openings - 6 annually
Statewide openings - 95 annually

Plumber
Job Openings Projected through 2022
Lane County openings - 9 annually
Statewide openings - 143 annually

Sheet Metal
Job Openings Projected through 2022
Lane County openings - 6 annually
Statewide openings - 97 annually

Wages
Carpenter
Lane County average hourly - $23.39; average annual - $48,845
Oregon average hourly - $22.48; average annual - $46,754

HVAC
Lane County average hourly - $26.13; average annual - $54,350
Oregon average hourly - $24.45; average annual - $50,873

Plumber
Lane County average hourly - $29.76; average annual - $61,894
Oregon average hourly - $35.53; average annual - $73,917

Sheet Metal
Lane County average hourly - $24.35; average annual - $50,644
Oregon average hourly - $24.94; average annual - $51,875

Costs Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.
Books ................................................................. $1,500
Resident Tuition and General Student Fees ................................ $11,225
Total Estimated Cost $12,725

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• 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
• WR 115W and MTH 060 must be completed with a grade of “Pass” or “C-” or better.
• See AAS degree page for choices in Arts and Letters, Human Relations, and Science/Math/Computer Science.
• 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.

General Education
WR 115W Introduction to College Writing: Workplace Emphasis or higher......................................................... 3
MTH 060 Beginning Algebra or higher ................................................. 4
PE/Health Requirement ................................................................ 3
Arts and Letters requirement ......................................................... 3
Human Relations requirement ......................................................... 3
Science/Math/Computer Science requirement.......................... 3
Choice of: Arts and Letters requirement
Human Relations/Social Science requirement
Science/Math/Computer Science requirement.......................... 3

Carpenter (36 credits)
APR 115 Carpentry Skill Fundamentals................................. 3
APR 116 Carpentry Framing Fundamentals................................. 3
APR 117 Carpentry Framing and Introduction to Concrete ......................................................... 3
APR 118 Carpentry Framing and Finishing ........................................... 3
APR 119 Carpenter Commercial Plans and Exterior Finish ......................................................... 3
APR 120 Carpenter Interior Finish ......................................................... 3
APR 201 Carpentry 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 172 Sheet Metal/HVAC/R Blueprint Reading ........................................... 3
APR 210 HVAC Systems 1 ......................................................... 4
APR 211 HVAC Systems 2 ......................................................... 4
APR 212 HVAC Systems 3 ......................................................... 4
APR 220 Electrical Apprenticeship Code and Exam Preparation ......................................................... 6-9
APR 190 Electrical Theory 1 ......................................................... 4
APR 191 Electrical Theory 2 ......................................................... 4
APR 285 Motors .......................... 4
APR 286 Motors 2 ......................................................... 4
Construction Trades, General Apprenticeship

Offered by the Advanced Technology Division, 541.463.5380

One-Year Certificate of Completion

Program Coordinator Joy Crump, Bldg. 15 Rm. 201, 541.463.5496, crumpj@lanecc.edu.

Purpose Students may earn a Certificate of Completion in Construction Trades, General Apprenticeship by successfully completing 36-46 core related training credits with a grade of “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.

Licensing and Certification

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.

Advising and Counseling lanecc.edu/advtech/counselor-and-advisor

Lane County average hourly - $24.35; average annual - $50,644

Oregon average hourly - $35.53; average annual - $73,917

Carpenter

Lane County openings - 6 annually

Statewide openings - 95 annually

Wages

Carpenter

Lane County average hourly - $23.39; average annual - $48,645

Oregon average hourly - $22.48; average annual - $46,754

HVAC

Lane County average hourly - $26.13; average annual - $54,350

Oregon average hourly - $24.45; average annual - $50,873

Plumber

Lane County average hourly - $29.76; average annual - $61,894

Oregon average hourly - $35.53; average annual - $73,917

Sheet Metal

Lane County average hourly - $24.35; average annual - $50,644

Oregon average hourly - $24.94; average annual - $51,875
### Course Requirements
- Complete 8000 hours of State of Oregon-approved on-the-job training and provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD Certificate of Completion in BOLI-ATD Trade: Carpenter, HVAC Technician, Plumber, or Sheet Metal Worker.
- Complete related instruction (communication, computation, human relations) 9 credits
- Complete core-related training 36-46 credits
- Minimum placement scores reading 68, writing 64, and readiness for MTH 060, or prior college. Note: See the counselor or advisor to obtain the suggested entry-level skills for successful completion of these programs.

### Criminal Justice
**Offered by the Social Science Division, 541.463.5427**

**Associate of Applied Science Degree**

**Program Coordinator** Caomhín ÓFeargháil, 541.463.5361, ofearghail@lanecc.edu

**Purpose** To offer men and women preparation for career employment in law enforcement, 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 student who successfully completes all Criminal Justice requirements will:
- Apply sociological theory to better understand criminal behavior.
- Discuss 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.
- Express a thorough knowledge of the criminal justice system.
- Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them.
- Qualify for education requirements for entry-level public safety careers.
- Understand the importance of inter-disciplines and the need for a well-rounded education in public safety.
- Use appropriate library and information resources to research professional issues and support lifelong learning.

**Cooperative Education (Co-op)** Co-op provides opportunities for field experience with various local public safety agencies including local law enforcement, corrections, courts, and commercial security organizations. Students may participate on a full or part-time basis.

**Job Openings Projected through 2020**

<table>
<thead>
<tr>
<th>Field</th>
<th>Opening Projected</th>
<th>Wages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law Enforcement</td>
<td>14 annually</td>
<td>$32.44; average annual - $67,461</td>
</tr>
<tr>
<td>Law Enforcement Statewide</td>
<td>191 annually</td>
<td></td>
</tr>
<tr>
<td>Correctional Officers</td>
<td>122 annually</td>
<td>$67,189</td>
</tr>
</tbody>
</table>

**Costs** (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.) Criminal Justice course fees
and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.
Books .................................................................................. $2,600
Resident Tuition and General Student Fees ......................... $11,565
Total Estimated Cost $14,165

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- All CJA courses must be completed with a letter grade of ‘C’ or better to satisfy program requirements.
- PSY, SOC, and WR courses must be completed with a letter grade of C or better to satisfy program requirements.
- Courses that satisfy transfer general education requirements are recommended: BI, BOT, Z, CH, G, GS, PH
- Directed electives (choose 6 credits total)
- CJA 201 Juvenile Delinquency 3
  CJA 210 Criminal Investigation 1
  CJA 214 Introduction to Forensic Science 4
  CJA 232 Correctional Casework 3
  CJA 243 Narcotics and Dangerous Drugs 3
  SOC 211 Social Deviance 3
- CJA 214 Introduction to Forensic Science can be used to meet Directed Elective or Biological/Physical Science Elective.
- CH 114 Forensic Chemistry can satisfy the Biological or Physical Science requirement

First Year

Fall

Choice of:
- WR121 Academic Composition
- WR121_H Academic Composition Honors .................. 4
- CJA 100 Introduction to Criminal Justice 1 ..................... 3
- Directed Elective .......................................................... 3
- SOC 204 Introduction to Sociology ................................ 4
- COMM 105 Listening and Critical Thinking .................... 4
- Arts and Letters elective .............................................. 3
- CJA 110 Introduction to Criminal Justice 2 .................... 3
- SOC 205 Social Stratification and Social Systems ......... 4
- COMM 100 Basic Communications ........................... 4
- WR 122 Argument, Research and Multimodal Composition ................................................................. 4
- CJA 101 Introduction to Criminology ............................ 3
- CS 120 Concepts of Computing: Information Processing or higher .................................................. 4
- SOC 206 Institutions and Social Change ...................... 4
- Choice of:
  - HE 250 Personal Health
  - HE 262 First Aid
  - 275 Lifetime Health and Fitness .............................. 3

Winter

- CJA 201 Juvenile Delinquency 3
- CJA 210 Criminal Investigation 1
- CJA 214 Introduction to Forensic Science 4
- CJA 232 Correctional Casework 3
- CJA 243 Narcotics and Dangerous Drugs 3
- SOC 211 Social Deviance 3
- Directed Elective .......................................................... 3
- COMM 204 Introduction to Sociology .......................... 4
- WR 122 Argument, Research and Multimodal Composition ................................................................. 4
- PS 201 U.S. Government and Politics ........................ 3
- Choice of:
  - PHL201 Introduction to Philosophy: Ethics
  - PHL205 Contemporary Moral Issues
  - ANTH103 Cultural Anthropology ............................. 4

Second Year

Fall

- Biological or Physical Science requirement .................. 3-4
- CJA 213 Interviewing and Interrogation ...................... 3
- CJA 220 Introduction to Criminal Law ........................ 3
- PS 201 U.S. Government and Politics ........................ 3
- Choice of:
  - PHL201 Introduction to Philosophy: Ethics
  - PHL205 Contemporary Moral Issues
  - ANTH103 Cultural Anthropology ............................. 4
- Biological or Physical Science elective ........................ 4-5
- CJA 222 Criminal Law: Procedural Issues .................. 3
- CJA 280 Co-op Ed: Criminal Justice .......................... 3
- Directed elective .......................................................... 3
- PS 202 U.S. Government and Politics ........................ 3

Winter

- Biological or Physical Science elective ........................ 5
- CJA 280 Co-op Ed: Criminal Justice .......................... 3
- PS 203 State and Local Government and Politics .......... 3
- PSY 203 General Psychology ....................................... 4
- Arts and Letters elective .............................................. 3

Criminal Justice: Juvenile Corrections

Offered by the Social Science Division, 541.463.5427

One-Year Certificate of Completion

Program Coordinator Coimhin OFearghail, 541.463.5361
coimhin.ofearghail@lanecc.edu

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 student who successfully completes all Criminal Justice: Juvenile Corrections requirements 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.

Advising and Counseling Andy Graham Academic Advisor and Susan Shipp Academic Counselor contact at socsci-llcprograms@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 Coimhin OFearghail, Juvenile Corrections Co-op Coordinator, 541.463.5361, OFearghail@lanecc.edu

Job Openings Projected through 2020

This certificate meets the minimum level pre-employment requirement for the Oregon Youth Authority.

Statewide openings: 122

Wages

Group Life Coordinator II beginning wage is approximately $3,038 - $4,413 monthly.

Corrections Officers

Oregon average hourly - $26.98; average annual - $56,117

Costs Estimates based on 2016-17 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.

Books .................................................................................. $1,400
Resident Tuition and General Student Fees ......................... $6,000
Total Estimated Cost $7,400

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Gainful Employment Disclosure

21-1021.00

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 onetonline.org/link/summary/21-1021.00 Or check on these O*Net Related Occupations: Probation Officers and Correctional Treatment Specialists onetonline.org/link/summary/21-1092.00

In academic year 2014-15, 1 student completed this certificate.

The program is designed to take 4 terms, or about 15 months of study to complete.
Lane Community College is committed to protecting student privacy and does not publish this rate for fewer than 10 graduates.

For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.

Explanation of costs: lanecc.edu/esfs/credit-fees-and-expenses

Course Requirements
- Prerequisites are required for some courses. See course descriptions.
- All CJA, HS, PSY, and SOC courses must be completed with a letter grade of 'C' or better to satisfy program requirements.
- WR courses must be completed with a letter grade.
- MTH 095 is recommended for students going on to complete the 2-yr AAS degree in Criminal Justice.
- Students should be advised that it may take up to 4 terms to complete.

Choice of:

WR121 Intro to Academic Composition
WR121_H Intro to Academic Composition ................. 4
HS 206 The Criminal Addict: Issues and Interventions .... 3
MTH 080 Beginning Algebra or higher .......................... 4
PSY 201 General Psychology .................................. 4
SOC 225 Social Problems ..................................... 4

Fall

CJA 201 Juvenile Delinquency .................................. 3
CS 120 Concepts of Computing: Information Processing .... 4
HS 205 Youth Substance Abuse ................................. 3
PSY 202 General Psychology .................................. 4
PSY 239 Introduction to Abnormal Psychology .............. 3

Winter

CJA 101 Introduction to Criminology .......................... 3
CJA 232 Correctional Casework ................................ 3
CJA 280 Co-op Ed: Criminal Justice .......................... 3
HS 209 Crisis Intervention and Prevention .................... 3
PSY 215 Lifespan Developmental Psychology ............... 4

Spring

Course Requirements
- Prerequisites are required for some courses. See course descriptions.
- All CJA, HS, PSY, and SOC courses must be completed with a letter grade of 'C' or better to satisfy program requirements.
- WR courses must be completed with a letter grade.
- MTH 095 is recommended for students going on to complete the 2-yr AAS degree in Criminal Justice.
- Students should be advised that it may take up to 4 terms to complete.

Fall

WR121 Intro to Academic Composition
WR121_H Intro to Academic Composition ................. 4
HS 206 The Criminal Addict: Issues and Interventions .... 3
MTH 080 Beginning Algebra or higher .......................... 4
PSY 201 General Psychology .................................. 4
SOC 225 Social Problems ..................................... 4

Winter

CJA 201 Juvenile Delinquency .................................. 3
CS 120 Concepts of Computing: Information Processing .... 4
HS 205 Youth Substance Abuse ................................. 3
PSY 202 General Psychology .................................. 4
PSY 239 Introduction to Abnormal Psychology .............. 3

Spring

CJA 101 Introduction to Criminology .......................... 3
CJA 232 Correctional Casework ................................ 3
CJA 280 Co-op Ed: Criminal Justice .......................... 3
HS 209 Crisis Intervention and Prevention .................... 3
PSY 215 Lifespan Developmental Psychology ............... 4

Culinary Arts and Food Service Management

Offered by Culinary Arts and Hospitality Management, 541.463.3518

Associate of Applied Science Degree

Less than One-Year Certificate of Completion - Baking and Pastry

Program Coordinator: Wendy Milbrat, Project Specialist, 541.463.3518, milbratw@lanecc.edu; or email: CulinaryHospPrograms@lanecc.edu

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.

Learning Outcomes
The student who successfully completes all Culinary Arts and Food Service Management requirements 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.

Accreditation
Culinary Arts, 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).

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 204 or online at lanecc.edu/culinary. Or email: CulinaryHospPrograms@lanecc.edu

Advising and Counseling
Program Advisor, Claudia Riumallo and Tricia Lytton; Program Counselor, Carolyn Litty

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, mccullyj@lanecc.edu

Job Openings Projected through 2020

Chefs and Head Cooks
Lane County openings - 4 annually
Statewide openings - 55 annually

Food Service Managers
Lane County openings - 11 annually
Statewide openings - 145 annually

Production Bakers
Lane County openings - 12 annually
Statewide openings - 96 annually

Restaurant Cooks
Lane County openings - 68 annually
Statewide openings - 1161 annually

Supervisors and Managers of Food Preparation and Serving Workers
Lane County openings - 40 annually
Statewide openings - 559 annually

Wages

Chefs and Head Cooks
Lane County average hourly - $19.82, average annual - $41,229
Oregon average hourly - $22.52, annual average annual - $46,828

Food Service Managers
Lane County average hourly - $20.26, average annual - $42,136
Oregon average hourly - $24.20, average annual - $50,337

Production Bakers
Lane County average hourly - $15.05, average annual - $31,287
Oregon average hourly $14.30, average annual - $29,753

Restaurant Cooks
Lane County average hourly - $12.38, average annual - $25,754
Oregon average hourly $12.19, average annual - $25,338
CAREER TECHNICAL

Supervisors and Managers of Food Preparation and Serving Workers
Lane County average hourly - $14.02, average annual - $29,158
Oregon average hourly $15.02, average annual - $31,240

Costs (Estimate based on 2016-17 tuition and fees for 2-yr program) The total of all the differential fees attached to Culinary Arts courses and other fees may change during the year — see the online credit class schedule for fees assigned to courses.
Books .................................................................................................................. $850
Differential Fees* .............................................................................................. $2,760
Instruments/Tools ............................................................................................. $190
Program Specific Fees ...................................................................................... $1,910
Resident Tuition and General Student Fees .................................................. $11,260
Uniforms ............................................................................................................. $170

Total Estimated Cost $17,140

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Must be a credit-level student. 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-70, reading-68 and readiness for MTH 025* taking the Arithmetic section of the Accuplacer test and scoring 75 or higher and attach copies of test score sheets to application.
- A Lane County Food Handlers card is required for entry into the program.
- Prerequisites are required for some courses. See course descriptions.
- All courses required for this program must be taken for a letter grade, not P/IP, and must be passed with a grade of C- or better.
- 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.
- Students may take Cooperative Education any term approved by the coordinator.
- To reach 2nd year status, the following classes must be taken and passed with min grade of C-: CA 163, CA 175, CA 200, HRTM 105, HRTM 106, and MTH 025 or higher.
- Students interested in transferring to a four-year institution should take: 1. Substitute WR 121 or WR 121_H for WR 115W 2. Add MTH 111 or MTH 112 3. Add a speech course 4. Add WR 122 and WR 123.
- MS PowerPoint and Excel are used extensively. If students are not familiar with these programs, they are encouraged to take these classes prior to or during their first year in the program.
- General Education Requirements may be completed prior to program entry or any program term. For complete details refer to the college catalog or meet with your academic advisor.

First Year

Fall
CA 160 Introduction to Cooking Theories 1 ............................................. 6
CA 175 Foodservice Sanitation and Safety ............................................. 2
HRTM 105 Restaurant Operations ......................................................... 3
MTH 025 Basic Mathematics Applications or higher ............................. 3

Winter
HRTM 106 Introduction to Hospitality Management .......................... 3
CA 162 Introduction to Cooking Theories 2 ........................................ 7
FN 105 Nutrition for Foodservice Professionals .................................. 3
General Education Requirement: HE 252 First Aid ............................ 3

Spring
General Education Requirement: WR 115 Introduction to college Writing or higher .................................................. 4
General Education Requirement: Science/Math /Computer Science ............................................. 3

Second Year

Fall
General Education Requirement: Human Relations ................................ 3
General Education Requirement: Arts and Letters .................................. 3
CA 292 Advanced Cooking Theories 1 .................................................. 7
HRTM 265 Hospitality Financials 1 ......................................................... 3

Winter
CA 293 Advanced Cooking Theories 2 .................................................. 7
HRTM 275 Hospitality Financials 2 ......................................................... 3
HRTM 220 Sustainability in the Hospitality Industry .......................... 2
HRTM 280 Hospitality Human Resources and Supervision .................. 3
Directed Elective ....................................................................................... 2
General Education Requirement: Choice of: Social Science or Science/Math/Computer Science or Arts and Letters requirement ............................................. 3

Spring
CA 294 Advanced Cooking Theories 3 .................................................. 7
HRTM 290 Hospitality Leadership .......................................................... 3
CA 178 Concepts of Taste and Flavor ..................................................... 3
Directed Elective ....................................................................................... 2

Summer
CA 280 Co-op Ed: Culinary Arts, Second Year ..................................... 7

Directed Electives

Directed Electives (4 total credits required for Culinary Arts and Food Service Management AAS degree)
BA 278 Leadership and Team Dynamics .................................................. 4
BI 103H General Biology-Mushrooms .................................................. 4
BT 163 QuickBooks ................................................................................. 4
BT 123 MS EXCEL for Business ............................................................. 4
BT 122 MS POWERPOINT for Business .............................................. 3
BT 120 MS WORD for Business ............................................................ 4
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 .......... 2
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 ............................................. 2
CA 163C Advanced Baking and Pastry .................................................. 3
CS 120 Concepts of Computing: Information Processing .................. 2
FN 110 Personal Nutrition ........................................................................ 2
HRTM 100 Introduction to Culinary and Hospitality Management ........ 3
HRTM 104 Introduction to Travel and Tourism ..................................... 3
HRTM 109 Principles of Meetings and Convention Management ........ 3
HRTM 110 Hospitality Sales and Marketing ......................................... 3
HRTM 140 Hospitality Law and Security ............................................. 3
HRTM 209 Advanced Principles of Meeting, Convention, and Special Event 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
COMM 115 Introduction to Intercultural Communication .................... 4
COMM 130 Business and Professional Communication .................... 4
SUST 101 Introduction to Sustainability ................................................ 3
SUST 120 Gardening and Sustainable Food Systems .......................... 3
Choice of:
WR 121 Academic Composition ......................................................... 4
WR 121_H Academic Composition ....................................................... 4

General Education Requirement (21 total credits required for Culinary Arts and Food Service Management AAS degree)
MTH 025 Basic Mathematics Applications or higher ............................. 3

Uniforms

Resident Tuition and General Student Fees ............................................. $12,360
Uniforms ..................................................................................................... $190

Total Estimated Cost $14,550

*Estimate based on 2016-17 tuition and fees for 2-yr program
Baking and Pastry

Offered by the Culinary Arts and Hotel/Restaurant/Tourism Management, 541.463.3518

Less than One-Year Certificate of Completion

Program Coordinator Wendy Milbrat, Project Specialist, 541.463.3618, milbratw@lanecc.edu

Purpose The certificate in Baking and Pastry is for students who want to gain entry into the food service industry as beginning bakers and pastry cooks.

Learning Outcomes The student who successfully completes all Baking and Pastry requirements 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 Hotel/Restaurant/Tourism Management office, Building 19, Room 204 or online at lanecc.edu/culinary; or email: CulinaryHospPrograms@lanecc.edu

Advising and Counseling Program advisors, Claudia Riumallo and Tricia Lytton; Program counselor, Carolyn Litty

Costs (Estimate based on 2016-17 tuition and fees for program)

<table>
<thead>
<tr>
<th>Books</th>
<th>Differential Fees</th>
<th>Program Specific Fees</th>
<th>Resident Tuition and General Student Fees</th>
<th>Total Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$250</td>
<td>$831</td>
<td>$1,463</td>
<td>$2,666</td>
<td>$5,210</td>
</tr>
</tbody>
</table>

* This is the total of all differential fees attached to the course fees in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

- Must be a credit level student. Complete college placement tests with the following minimum scores: writing 70, reading 68 and readiness for MTH 025 or higher, taking the Arithmetic section of the Accuplacer test and scoring 75 or higher and attach copies of test score sheets to application.
- This certificate is a fall term start only.
- A Lane County Food Handlers card is required for entry into the program.
- Prerequisites are required for some courses. See course descriptions.
- All courses required for this certificate must be taken for a letter grade, not P/NP, and must be passed with a grade of C- or better.

<table>
<thead>
<tr>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 175 Foodservice Sanitation and Safety</td>
</tr>
<tr>
<td>MTH 025 Basic Mathematics Applications: MTH 025C</td>
</tr>
<tr>
<td>Basic Mth. App. Culinary Only strongly recommended</td>
</tr>
<tr>
<td>CA 163A Beginning Baking and Pastry</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 120 Culinary Adventuring: Seasonal Baking and Pastry</td>
</tr>
<tr>
<td>CA 163B Intermediate Baking and Pastry</td>
</tr>
<tr>
<td>CA 123 Culinary Adventuring: International Baking and Pastry</td>
</tr>
<tr>
<td>CA 122 Artisan Breads</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 163C Advanced Baking and Pastry</td>
</tr>
<tr>
<td>CA 120 Culinary Adventuring: Seasonal Baking and Pastry</td>
</tr>
<tr>
<td>CA 121 Culinary Adventuring: The Composition of Cake</td>
</tr>
</tbody>
</table>

Dual-Degree Option for Culinary Arts Students/Graduates

Offered by the Culinary Arts and Hospitality Management, 541.463.3518

Associate of Applied Science Degree

Program Coordinator Wendy Milbrat, Project Specialist, 541.463.3518, milbratw@lanecc.edu; or email: CulinaryHospPrograms@lanecc.edu

Purpose Advising Plan for Culinary Arts AAS students (Completing a second Two-Year Associate of Applied Science degree) Students who have obtained the 2 yr. AAS degree in Culinary Arts during the 2012-13 academic year or later may also complete the 2 yr AAS degree in Hospitality Management to enhance their industry skill set and education. This list shows the nine classes (24 credits) needed to complete this degree. Note: This dual degree is not an option for Hospitality Management graduates seeking a Culinary Arts 2 yr. AAS degree.

Costs This cost is in addition to the AAS Culinary Arts and Food Service Management degree.

| Books | $350 |
| Resident Tuition and General Student Fees | $2,760 |

| Total Estimated Cost | $3,110 |

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

<table>
<thead>
<tr>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 225 Banquet Operations</td>
</tr>
<tr>
<td>HRTM 230 Hotel Operations 1</td>
</tr>
<tr>
<td>HRTM 286 Bar and Beverage Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 231 Hotel Operations 2</td>
</tr>
<tr>
<td>HRTM 110 Hospitality Sales and Marketing</td>
</tr>
<tr>
<td>HRTM 225 Banquet Operations</td>
</tr>
<tr>
<td>HRTM 140 Hospitality Law and Security</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 225 Banquet Operations</td>
</tr>
<tr>
<td>HRTM 205 Managing the Restaurant Operation</td>
</tr>
</tbody>
</table>

Dental Assisting

Offered by the Health Professions Division, 541.463.5617

One-Year Certificate of Completion

Program Coordinator Leslie Greer, Dental Assisting Program and Co-op Coordinator, Bldg. 5, Rm. 231, 541.463.5638, greerl@lanecc.edu

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 dental receptionist-bookkeeper.
Learning Outcomes Upon completion of the Dental Assisting program, all graduates will be able to:

- demonstrate knowledge and ability to write/edit multiple types of professional communications.
- demonstrate knowledge and skill required to accurately expose, develop and mount diagnostic radiographs using multiple systems.
- demonstrate knowledge and skills needed to compute mixing amounts and calculate formulas utilized in dental procedures.
- demonstrate knowledge and skills required for business office procedures.
- demonstrate knowledge and skills required to access information via dental journals and web sites.
- demonstrate knowledge and skills required to systematically collect diagnostic data.
- demonstrate knowledge and skills needed to maintain a professional working environment.
- demonstrate knowledge and skills required to provide an aseptic environment and prevent disease transmission.
- demonstrate application of principles of ethical reasoning, decision making and professional responsibility.
- demonstrate interpersonal communication and collaborative skills to effectively interact with diverse population groups, health care providers, dental professionals and community groups.
- demonstrate knowledge and skills required to perform or assist with a variety of clinical treatments used in all areas of dentistry.

Accreditation Dental Assisting, American Dental Association’s Commission on Dental Accreditation, a specialized accrediting board recognized by the U.S. Dept. of Education. The Commission may be contacted at 800.621.8099 or 312.440.4653 or 211 East Chicago Avenue, Chicago, Illinois 60611.

Licensing and Certification Upon graduation and successful completion of the board exams, students will qualify for the following: Certified Dental Assistant (CDA) - National credential
Expanded Function Dental Assistant (EFDA) - Oregon credential
Expanded Function Orthodontic Assistant (EFODA) - OR credential
Oregon Radiological Proficiency - Oregon X-ray license

In academic year 2014-15, 23 students completed the Dental Assisting 1-year certificate.

The program is designed to take 4 terms, or about 15 months of study to complete.

Of students who completed this certificate in the 2014-15 academic year, 9% completed on time. Note: The federally required method for calculating this rate assumes students will declare their completion program major immediately, enroll full-time each term, and remain enrolled at Lane continuously until they complete their program. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change majors, and brush-up on their academic skills to be better prepared for college level courses, all of which affect this narrowly defined on-time graduation rate.

The median loan debt incurred by students who completed the program in 2014-15 = $14,822.

Gainful Employment Disclosure

The employed dental assistant may be eligible to register for any DA course offered if space permits AND the working assistant meets state credentialing qualifications by contacting the Program Coordinator, Leslie Greer 541.463.5638

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 a minimum of 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.

Job Openings Projected through 2020

Lane County: 18
Statewide: 186

Openings are estimated to increase by 25%.

Wages
Lane County hourly average - $19.63; annual average - $40,824
Oregon hourly average - $20.44; annual average - $42,501

Costs (Estimates based on 2015-16 data for full-time students.
Students attending part-time will incur additional term fees.)

Books ........................................................................................................ $600
Certification, Licensure, Exams, Physicals .......................................... $4,317
Differential Fees* ............................................................................... $1,076
Resident Tuition and General Student Fees ..................................... $5,296
Uniforms .............................................................................................. $375

Total Estimated Cost $11,864

*T is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

- All DA courses must be passed with a class average of 75% or higher to remain in the program. (Courses with both a didactic and laboratory/clinical component must have a minimum grade of 75% in BOTH components to qualify as passing.)
- Human Relations prerequisites may be selected from the list below
- HO 150 and 152 are offered Online. Anatomy and Physiology courses (combination of BI 231,232 and 233) can be substituted for the HO 150/152 combo
- Some courses have prerequisites. See course descriptions
- All pre-req courses must be taken for a letter grade and passed with a ‘C’ or higher (C- not accepted).
- For DA courses, students must be accepted and enrolled in the Dental Assisting program*

* The employed dental assistant may be eligible to register for any DA course offered if space permits AND the working assistant meets state credentialing qualifications by contacting the Program Coordinator, Leslie Greer 541.463.5638

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Accreditation Dental Assisting, American Dental Association’s Commission on Dental Accreditation, a specialized accrediting board recognized by the U.S. Dept. of Education. The Commission may be contacted at 800.621.8099 or 312.440.4653 or 211 East Chicago Avenue, Chicago, Illinois 60611.

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In academic year 2014-15, 23 students completed the Dental Assisting 1-year certificate.

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Of students who completed this certificate in the 2014-15 academic year, 9% completed on time. Note: The federally required method for calculating this rate assumes students will declare their completion program major immediately, enroll full-time each term, and remain enrolled at Lane continuously until they complete their program. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change majors, and brush-up on their academic skills to be better prepared for college level courses, all of which affect this narrowly defined on-time graduation rate.

The median loan debt incurred by students who completed the program in 2014-15 = $14,822.

Explanation of costs: lanec.edu/esfs/credit-fees-and-expenses

Course Requirements

- All DA courses must be passed with a class average of 75% or higher to remain in the program. (Courses with both a didactic and laboratory/clinical component must have a minimum grade of 75% in BOTH components to qualify as passing.)
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The median loan debt incurred by students who completed the program in 2014-15 = $14,822.

Explanation of costs: lanec.edu/esfs/credit-fees-and-expenses

Course Requirements

- All DA courses must be passed with a class average of 75% or higher to remain in the program. (Courses with both a didactic and laboratory/clinical component must have a minimum grade of 75% in BOTH components to qualify as passing.)
- Human Relations prerequisites may be selected from the list below
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- All pre-req courses must be taken for a letter grade and passed with a ‘C’ or higher (C- not accepted).
- For DA courses, students must be accepted and enrolled in the Dental Assisting program*

* The employed dental assistant may be eligible to register for any DA course offered if space permits AND the working assistant meets state credentialing qualifications by contacting the Program Coordinator, Leslie Greer 541.463.5638
CAREER TECHNICAL

Dental Assisting - Dental Hygiene

98

Learning Outcomes

• demonstrate critical thinking, problem solving and self-evaluation in the provision of comprehensive care, selection of patient management strategies, and professional competence development.

• select and plan educational and clinical services for periodontal diseases using appropriate interpersonal communication, comprehensive data collection, knowledge of periodontal conditions and therapies, and educational strategies.

• access, critically appraise, apply and communicate evidence based practices for all periodontal classifications within diverse patient populations.

• demonstrate interpersonal communication and collaborative skills to effectively interact with diverse population groups, health care providers, dental professionals and community groups.

• demonstrate application of refined instrumentation skills for periodontal, restorative and therapeutic interventions for individuals at all stages of life.

• demonstrate application of behavioral sciences and patient centered approaches to promote, improve and maintain oral health.

• use assessment, planning, implementation and evaluation for the provision of dental hygiene services and disease prevention strategies within diverse, multicultural and special needs populations, and community groups.

• demonstrate use of mathematical and statistical concepts in the application of clinical and preventive dental care strategies.

• use appropriate library and information resources to research professional issues, develop community health program planning and to support lifelong learning.

• experiential Learning: membership in the Student American Dental Hygienist’s Association (SADHA) at the state and national level. Professional meetings and continuing education offerings. Assessment, Planning, Implementation and Evaluation of community health programs. Off campus experiences with community clinics, school-based screenings, presentations for health fairs, classrooms, inter-professional collaboration and visitations to specialty and general dental offices/clinics.

Accreditation Dental Hygiene, accredited by The American Dental Association’s Commission on Dental Accreditation, a specialized accrediting board recognized by the U.S. Dept. of Education. The Commission may be contacted at 312.440.4653 or 211 East Chicago Avenue, Chicago, Illinois 60611.

Licensing and Certification Registered Dental Hygienist

Admission Information See lanecc.edu/hp/dental/dental-hygiene for additional information and the admission packet.

Advising and Counseling For assistance in meeting program or application requirements, please go to Counseling and Advising in Building 1, Room 103, or e-mail DHProgram@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. Only students who have received their official program acceptance letter or who are currently enrolled in the dental hygiene program may take Dental Hygiene Co-op.

Job Openings Projected through 2020

Mid-Willamette and Mid-Coast region openings - 13 annually

Statewide openings - 148 annually

Wages

Lane County average hourly - $39.40; average annual - $81,959
Oregon average hourly - $37.57; average annual - $78,129

Costs Program costs include: tuition and general student fees; course fees for professional supplies; Instrument and restorative instructional supplies; books, uniforms and magnification lenses; program specific course fees for dental hygiene education; and professional exams, licensure fees and physicals.
**Course Requirements**
- Students must be accepted in Dental Hygiene Program to enroll in DH courses
- All courses listed below must be passed with a letter grade of 'C' or better

**Prerequisites**
- BI 112 Cell Biology for Health Occupations
- CH 112 Chemistry for Health Occupations
- Choice of:
  - WR 121 Academic Composition
  - WR 121H Academic Composition
  - BI 231 Human Anatomy and Physiology 1
  - BI 232 Human Anatomy and Physiology 2
  - BI 233 Human Anatomy and Physiology 3
  - FN 225 Nutrition
- Choice of:
  - SOC 204 Introduction to Sociology
  - Soc 206 Social Stratification and Systems
  - MTH 052 Math for Introductory Physical Sciences
  - Choice of: PSY 201,202,203 General Psychology
  - Choice of: WR 123 Composition: Research WR 227
  - Technical Writing
  - Choice of: COMM 100 Basic Communication

**Books**
- Books ........................................ $1,660
- Certification, Licensure, Exams, Physicals .......... $2,560
- Computers/Internet Service ........................................ $1,500
- Differential Fees* ........................................ $11,712
- Instruments/Tools ........................................ $6,360
- Resident Tuition and General Student Fees ....... $8,019

Total Estimated Cost $31,691

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

**Course Requirements**
- Students must be accepted in Dental Hygiene Program to enroll in DH courses
- All courses listed below must be passed with a letter grade of 'C' or better

**Prerequisites**
- BI 112 Cell Biology for Health Occupations
- CH 112 Chemistry for Health Occupations
- Choice of:
  - WR 121 Academic Composition
  - WR 121H Academic Composition
  - BI 231 Human Anatomy and Physiology 1
  - BI 232 Human Anatomy and Physiology 2
  - BI 233 Human Anatomy and Physiology 3
  - FN 225 Nutrition
- Choice of:
  - SOC 204 Introduction to Sociology
  - Soc 206 Social Stratification and Systems
  - MTH 052 Math for Introductory Physical Sciences
- Choice of: PSY 201,202,203 General Psychology
- Choice of: WR 123 Composition: Research WR 227
  - Technical Writing
  - Choice of: COMM 100 Basic Communication

- DH 234 Introductory Microbiology
- DH 222B Clinical Dental Hygiene 6 Lab
- DH 222A Clinical Dental Hygiene 6

**First Year**
- DH 119A Clinical Dental Hygiene
- DH 119B Clinical Dental Hygiene
- DH 139 Special Needs Patient and Dental Emergencies
- DH 229 Oral Pathology for the Dental Hygienist
- DH 244A Oral Roentgenology 1
- DH 244B Oral Roentgenology 1 Lab
- DH 243B Oral Roentgenology 1

**Second Year**
- DH 220A Clinical Dental Hygiene 2
- DH 270 Periodontology 1
- DH 220B Clinical Dental Hygiene 2
- DH 275 Restorative Dentistry 1

**Winter**
- DH 221A Clinical Dental Hygiene 5
- DH 221B Clinical Dental Hygiene 5 Lab
- DH 237 Community Dental Health
- DH 276 Restorative Dentistry 2

**Spring**
- DH 234 Trends and Issues in Dental Hygiene
- DH 238 Community Dental Health
- DH 277 Restorative Dentistry 3
- BI 234 Introductory Microbiology
- DH 222B Clinical Dental Hygiene 6 Lab
- DH 222A Clinical Dental Hygiene 6

**Utility Courses**
- First Year:
  - DH 276 Restorative Dentistry 1
  - DH 244A Oral Roentgenology 1
  - DH 244B Oral Roentgenology 1 Lab
- Second Year:
  - DH 270 Periodontology 1
  - DH 220A Clinical Dental Hygiene 2

**Purpose**
To prepare the graduate for employment in occupations such as heavy equipment technician and highway truck technician. Possible job opportunities are available with truck fleets, logging fleets, heavy construction companies, OEM dealerships, road construction contractors, parts sales, general heavy equipment repair shops, agriculture fleets and repair shops.

**Learning Outcomes**
The student who successfully completes all Diesel Technology requirements will:
- access library, computing, and communications services and obtain information and data from regional and national networks.
- identify and explain various technologies used in the repair of on- and off-highway vehicles.
- demonstrate and use industry safety standards.
- demonstrate math skills using formulas to find force, pressure, area, and volume.
- use lab station simulators to diagnose and troubleshoot system components.
- demonstrate troubleshooting, maintenance and repair procedures including: testing, disassembly, failure analysis, assembly and operation using industry standard tooling and equipment, to diagnose diesel fuel systems and components found on highway trucks, off highway vehicles and stationary applications including construction equipment, agriculture equipment, marine applications, truck equipment and power generation.
- demonstrate troubleshooting, maintenance and repair procedures including: testing, disassembly, failure analysis, assembly and operation using industry standard tooling and equipment, to diagnose brake systems and components found on highway trucks, off highway vehicles and stationary applications including construction equipment, agriculture equipment, marine applications, truck equipment and power generation.
- demonstrate troubleshooting, maintenance and repair procedures including: testing, disassembly, failure analysis, assembly and operation using industry standard tooling and equipment, to diagnose power train systems and components found on highway trucks, off highway vehicles and stationary applications including construction equipment, agriculture equipment, marine applications, truck equipment and power generation.
- 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 including construction equipment, agriculture equipment, marine applications, truck equipment and power generation.
• 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 including construction equipment, agriculture equipment, marine applications, truck equipment and power generation.

Accreditation Diesel Technology, evaluated and accredited by the Association of Equipment Distributors Foundation (AEDF). Membership: Northwest Diesel Industry Council (NDC) and Oregon Trucking Association (OTA).

Admission Information See lanecc.edu/advtech/ds or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Advising and Counseling classes.lanecc.edu/course/view.php?id=31255

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 Chuck Fike, Diesel Technology Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206, 541.463.5078, fikec@lanecc.edu

Job Openings Projected through 2020

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Oregon</th>
<th>Lane County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Heavy Machinery Mechanics</td>
<td>59</td>
<td>7</td>
</tr>
<tr>
<td>Farm Equipment Mechanics</td>
<td>37</td>
<td>12</td>
</tr>
<tr>
<td>Heavy and Tractor-Trailer Truck Drivers</td>
<td>690</td>
<td>61</td>
</tr>
<tr>
<td>Bus and Truck Mechanics/Diesel Specialists</td>
<td>127</td>
<td>13</td>
</tr>
<tr>
<td>First-Line Supervisors of Mechanics</td>
<td>136</td>
<td>10</td>
</tr>
<tr>
<td>Recreational Vehicle Service Technicians</td>
<td>19</td>
<td>5</td>
</tr>
<tr>
<td>Industrial Machinery Mechanics</td>
<td>274</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1342</td>
<td>126</td>
</tr>
</tbody>
</table>

Wages
Lane County average hourly - $24.21; average annual - $50,353
Oregon average hourly - $24.23; average annual - $50,395

Costs (Estimate based on 2016-17 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

| Books                                             | $2,397 |
| Differential Fees*                                | $2,724 |
| Instruments/Tools                                 | $400   |
| Program Specific Fees                             | $1,651 |
| Resident Tuition and General Student Fees         | $12,425|
| **Total Estimated Cost**                          | $19,597|

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• WR 115 and the PE/Health requirement must be completed with a Pass or "C-" grade or better.
• Arts and Letters choices are listed on the Associate of Applied Science degree page.
• All DS, MFG courses and MTH 075/085 must be completed with a letter grade of "C-" or better.
• 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.

First Year
- Fall
  - DS 155 Heavy Equipment Hydraulics       12
  - MTH 075 Applied Algebra for Technicians 4
- Winter
  - PE/Health Requirement                  3
  - WLD 121 Shielded Metal Arc Welding 1    4
  - DS 154 Heavy Duty Braking Systems       12
- Spring
  - Human Relations Requirement            3
  - DS 158 Heavy Equipment Chassis and Power Trains     12
  - WR 115W Introduction to College Writing: Workplace Emphasis             3

Second Year
- Fall
  - Choice of:
    - MFG101 Safety and Basic Shop Practice 3-4
    - WLD122 Shielded Metal Arc Welding 2                  12
  - DS 256 Diesel and Auxiliary Fuel Systems                      12
  - MTH 085 Applied Geometry for Technicians                   4
- Winter
  - DS 257 Diesel Electrical Systems                               12
  - CS 120 Concepts of Computing: Information Processing            4
  - WLD 143 Wire Drive Welding 1                                 4
- Spring
  - DS 280 Cooperative Education: Diesel                           3
  - DS 259 Diesel Engines and Engine Overhaul                      12
  - Arts and Letters Requirement                                      3

Diesel Technology
Offered by the Advanced Technology Division, 541.463.5380

Two-Year Certificate of Completion
Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

Purpose
To prepare the graduate for employment in occupations such as heavy equipment technician and highway truck technician. Possible job opportunities are available with truck fleets, logging fleets, heavy construction companies, OEM dealerships, road construction contractors, parts sales, general heavy equipment repair shops, agriculture fleets and repair shops.

Learning Outcomes
The graduate will:
• access library, computing, and communications services and obtain information and data from regional and national networks.
• identify and explain various technologies used in the repair of on- and off-highway vehicles.
• demonstrate and use industry safety standards.
• demonstrate math skills using formulas to find force, pressure, area, and volume.
• use lab station simulators to diagnose and troubleshoot system components.
• demonstrate troubleshooting, maintenance and repair procedures including: testing, disassembly, failure analysis, assembly and operation using industry standard tooling and equipment, to diagnose diesel fuel systems and components found on highway trucks, off highway vehicles and stationary applications including construction equipment, agriculture equipment, marine applications, truck equipment and power generation.
• demonstrate troubleshooting, maintenance and repair procedures including: testing, disassembly, failure analysis, assembly and operation using industry standard tooling and equipment, to diagnose brake systems and components found on highway trucks, off highway vehicles and stationary applications including construction equipment, agriculture equipment, marine applications, truck equipment and power generation.
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• demonstrate troubleshooting, maintenance and repair procedures including: testing, disassembly, failure analysis, assembly and operation using industry standard tooling and equipment, to diagnose brake systems and components found on highway trucks, off highway vehicles and stationary applications including construction equipment, agriculture equipment, marine applications, truck equipment and power generation.
and operation using industry standard tooling and equipment, to
diagnose power train systems and components found on
highway trucks, off highway vehicles and stationary applica-
tions including construction equipment, agriculture equipment,
marine applications, truck equipment and power generation.

• demonstrate troubleshooting, maintenance and repair proce-
dures including: testing, disassembly, failure analysis, assembly
and operation using industry standard tooling and equipment
to diagnose hydraulic systems and components found on high-
way trucks, off highway vehicles and stationary hydraulic sys-
tems including construction equipment, agriculture equipment,
marine applications, truck equipment and plant hydraulics.

• demonstrate troubleshooting, maintenance and repair proce-
dures 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 applica-
tions including construction equipment, agriculture equipment,
marine applications, truck equipment and power generation.

Admission Information See lanec.edu/advtech/ds or contact the
Advanced Technology Division, AdvTechPrograms@lanec.edu
Advising and Counseling classes.lanecc.edu/course/view.php?id=
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 Tech-
nology Co-op Coordinator and with instructor consent, a max-
imum of 18 Co-op credits in DS 280 may be earned in lieu of
required Diesel Technology course credits. Contact Chuck Fike,
Diesel Technology Co-op Coordinator, Bldg 19, Rm. 281 or Bldg
12, Rm. 206. 541.463.5078, fikec@lanecc.edu

Job Openings Projected through 2020

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<tr>
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<td><strong>1342</strong></td>
<td><strong>126</strong></td>
</tr>
</tbody>
</table>

Wages
Lane County average hourly - $24.21; average annual - $50,353
Oregon average hourly - $24.23; average annual - $50,395

Costs (Estimate based on 2016-17 data for full-time students.
Students attending part-time will incur additional term fees.
Consult Lane’s website for updated tuition and fees.)

Books ................................................. $2,104
Instruments/Tools ................................ $400
Program Specific Fees ........................ $3,755
Resident Tuition and General Student Fees .......... $10,920

**Total Estimated Cost** $17,179

*Course fees may change during the year. See the online credit class
schedule for fees assigned to courses.

Gainful Employment Disclosure

49-3031.00

Standard Occupational Classification: 49-3031.00 Go to the
Department of Labor’s O*Net website for a profile of this occu-
pation: Bus and Truck Mechanics and Diesel Engine Special-
ists onetonline.org/link/summary/49-3031.00 Or check on these
O*Net Related Occupations: Mobile Heavy Equipment Mechan-
ics, Except Engines onetonline.org/link/summary/49-3042.00

In academic year 2014-15, 8 students completed this certificate.
The program is designed to take 8 terms, or about 24 months of
study to complete.

Lane Community College is committed to protecting student pri-

vacy and does not publish this rate for fewer than 10 graduates.

For privacy reasons under FERPA, loan information is not
disclosed for programs with fewer than 10 graduates in the
reported year.

Explanation of costs: lanec.edu/esfs/credit-fees-and-expenses

Course Requirements

• Prerequisites are required for some courses. See course
descriptions.
• Arts and Letters choices are listed on the Associate of Applied
Science degree page.
• WR115 and the PE/Health requirement must be completed with
a Pass or “C-” grade or better.
• All DS, MFG courses and MTH 075 must be completed with a
letter grade of “C-” or better.
• 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.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 155 Heavy Equipment Hydraulics</td>
<td>12</td>
</tr>
<tr>
<td>MTH 075 Applied Algebra for Technicians</td>
<td>4</td>
</tr>
</tbody>
</table>

Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 121 Shielded Metal Arc Welding 1</td>
<td>4</td>
</tr>
<tr>
<td>DS 154 Heavy Duty Braking Systems</td>
<td>12</td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DS 158 Heavy Equipment Chassis and Power Trains</td>
<td>12</td>
</tr>
<tr>
<td>WR 115W Introduction to College Writing: Workplace</td>
<td>3</td>
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<tr>
<td>Human Relations Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choice of: MFG101 Safety and Basic Shop Practice</td>
<td>3-4</td>
</tr>
<tr>
<td>WLD122 Shielded Metal Arc Welding 2</td>
<td>12</td>
</tr>
<tr>
<td>DS 256 Diesel and Auxiliary Fuel Systems</td>
<td>12</td>
</tr>
</tbody>
</table>

Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 257 Diesel Electrical Systems</td>
<td>12</td>
</tr>
<tr>
<td>WLD 143 Wire Drive Welding 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 259 Diesel Engines and Engine Overhaul</td>
<td>12</td>
</tr>
<tr>
<td>PE/Health Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Drafting

Offered by the Advanced Technology Division, 541.463.5380

Associate of Applied Science Degree

One-Year Certificate of Completion - Drafting

Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151,
reat@lanec.edu

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 communica-
tion 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 manu-
facture of electronics, precision sheet metal, heavy equipment,
steel fabrication, process piping, and plastics.

Learning Outcomes The graduate will be able to:

• 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.
- students will produce 3D parametric models that enable learners to think and create in three dimensions with sophisticated design software. These solid models are the principal means of communicating design ideas and developing new products and systems in the Architectural, Engineering and Construction Industries. Students will then be able to utilize a 3D printer to create an actual model.
- 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.

Admission Information See lanecc.edu/advtech/dft or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Advising and Counseling classes.lanecc.edu/course/view.php?id=31255

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 Gerry Meenaghan, Drafting Co-op Coordinator, Bldg 19, Rm. 231A. 541.463.5883, meenaghan@lanecc.edu

Job Openings Projected through 2020
Lane County openings - 4 annually
Statewide openings - 66 annually

Wages Lane County average hourly - $22.88 to $27.79; average annual - $47,575 to $54,562
Oregon average hourly - $25.41 to $27.79; average annual - $52,861 to $59,799

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane's website for updated tuition.)
Books ........................................ $2,591
Program Specific Fees ........................................ $304
Resident Tuition and General Student Fees .................. $10,510
Total Estimated Cost ........................................ $13,405

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Prerequisites are required for some courses. See course descriptions.
- PE/Health requirement, WR 121, and DRF 206 must be completed with a grade of “Pass” or “C-” or better.
- Human Relations and Health/PE choices are listed on the Associate of Applied Science degree page.
- 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.
- 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. Basic computer literacy skills are a prerequisite to any CAD course.

First Year
Human Relations Requirement ...................................... Fall 3
CS120 Concepts of Computing: Information Processing or higher computer science ........................................ 4
MTH 075 Applied Algebra for Technicians or higher mathematics ........................................ 4
DRF 160 Computer-Aided Drafting and Design .................. 4
Winter
DRF 137 Architectural Plans ........................................ 4
Directed Elective .................................................. 4
MTH 085 Applied Geometry for Technicians or higher mathematics ........................................ 4
CST 122 Construction Codes ..................................... 2

Spring
ET 121 Shop Practices .............................................. 2
COOP 206 Co-op Ed: Internship Seminar ......................... 2
Choice of:
WR 121 Academic Composition .................................. 4
WR 121_H Academic Composition .................................. 4
DRF 121 Mechanical Drafting ..................................... 4
DRF 245 Solid Modeling ........................................... 4
Second Year
Fall
DRF 235 Mechanical Design Skills .................................. 4
DRF 210 Commercial Buildings ..................................... 4
DS 155 Heavy Equipment Hydraulics ............................... 1
PE/Health Requirement ........................................... 3
DRF 205 Drafting: Structures ....................................... 4
Winter
DRF 236 Machine Elements ....................................... 4
DRF 207 Drafting: Strength of Materials ......................... 4
DRF 220 Building Information Modeling ......................... 4
WR 227 Technical Writing ......................................... 4

Spring
Directed Elective .................................................. 3-4
Directed Elective .................................................. 3-4
DRF 211 Sustainable Building Systems ......................... 4
ENGR 280D Co-op Ed: Drafting .................................. 3
Directed Electives
ART 216 Digital Design Tools ..................................... 3
CIS102 Problem Solving with Computers ....................... 3
CIS140W Intro to Operating Systems: Windows ............ 3
CIS 195 Web Authoring .......................................... 3
CS179 Intro to Computer Networks .............................. 3
CST 116 Construction Estimating ................................. 3
DS 154 Heavy Duty Braking Systems (3 credits) .............. 3
DS 257 Diesel Electrical Systems (3 credits) .................. 3
DS 259 Diesel Engines (3 credits) ............................... 3
GIS 151 Digital Earth ............................................. 3
GIS 245 GIS 1 ...................................................... 3
GS 104 Physical Science (physics) ............................... 3
GS 105 Physical Science (chemistry) ......................... 3
MFG 101 Safety and Basic Shop Practice ....................... 3
MUL 101 Intro to Media Arts ..................................... 3
MUL 212 Digital Imaging ......................................... 3
WLD 143 Wire Drive Welding 1 .................................. 3
WLD 151 Fund of Metallurgy ..................................... 3

Drafting
Offered by the Advanced Technology Division, 541.463.5380
One-Year Certificate of Completion

Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, rea@lanecc.edu

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 student who successfully completes all Drafting requirements 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.
- students will produce 3D parametric models that enable learners to think and create in three dimensions with sophisticated design software. These solid models are the principal means of communicating design ideas and developing new products and systems in the Architectural, Engineering and Construction Industries. Students will then be able to utilize a 3D printer to create an actual model.

Admission Information See lanec.edu/advtech/dft or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Advising and Counseling classes.lanec.edu/course/view.php?id=31255

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 Gerry Meenaghan, Drafting Co-op Coordinator, Bldg 19, Rm. 231A. 541.463.5883, meenaghan@lanecc.edu

Job Openings Projected through 2020

Lane County: 4 positions

Statewide: 66 positions

Wages

Lane County average hourly - $22.88 to $26.23; average annual - $47,755 to $56,562

Oregon average hourly - $25.41 to $27.79; average annual - $52,861 to $57,799

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)

Books ................................................................. $1,317

Program Specific Fees ......................................... $140

Resident Tuition and General Student Fees ............... $5,152

Total Estimated Cost ........................................ $6,609

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Gainful Employment Disclosure

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/17-3013.00

In academic year 2014-15, 9 students completed this certificate. The program is designed to take 4 terms, or about 15 months of study to complete.

Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.

Explanation of costs: lanec.edu/esfs/credit-fees-and-expenses

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- PE/Health requirement, WR 121, and DRF 206 must be completed with a grade of “Pass” or “C-” or better.
- Human Relations and Health/PE choices are listed on the Associate of Applied Science degree page.
- 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.
- 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. Basic computer literacy skills are a prerequisite to any CAD course.

Fall

CS 120 Concepts of Computing: Information Processing or higher computer science ........................................ 4
Human Relations Requirement ................................... 3
MTH 075 Applied Algebra for Technicians or higher mathematics ......................................................... 4
DRF 160 Computer-Aided Drafting and Design .......... 4

Winter

DRF 137 Architectural Plans .................................................. 4
MTH 085 Applied Geometry for Technicians or higher mathematics ......................................................... 4

Directed Elective: Choose One ........................................... 4
CST 122 Construction Codes ............................................. 2

Spring

Choice of:

WR 121 Academic Composition
WR 121 H Academic Composition ........................................ 4
ET 121 Shop Practices .................................................... 4
COOP 206 Co-op Ed: Internship Seminar .................... 2
DRF 121 Mechanical Drafting ........................................... 4
DRF 245 Solid Modeling .................................................. 4

Directed Electives

ART 216 Digital Design Tools
CIS102 Problem Solving with Computers
CIS140W Intro to Oper Systems: Windows
CS179 Intro to Computer Networks
CST 116 Construction Estimating
GIS 151 Digital Earth
GIS 245 GIS 1
GS 104 Physical Science (physics)
GS 105 Physical Science (chemistry)
MUL 212 Digital Imaging
WLD 143 Wire Drive Welding 1

Early Childhood Education

Offered by the Social Science Department, 541.463.5427

Associate of Applied Science Degree

One-Year Certificate of Completion - Early Childhood Education

Career Pathway Certificate - Early Childhood Teacher Aide 1

Career Pathway Certificate - Guidance and Curriculum

Career Pathway Certificate - Infant and Toddler

Program Coordinator Jean Bishop, bishopj@lanecc.edu; 541.463.5287, Building 24, Room 121
Purpose
Prepares graduates to work in an early childhood learning environment as classroom teaching assistants.

Learning Outcomes
The graduate will:
• facilitate the operation of child development 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.

Advising and Counseling
Lori Areford can be reached at educationadvising@lanecc.edu or at 541.463.5860. Leslie Soriano can be reached at soriano@lanecc.edu or at 541.463.5512.

Cooperative Education (Co-op)
Please contact Kathleen Lloyd, lloydk@lanecc.edu, 541.463.5527, Building 24/27 Early Childhood Education (ECE) majors are required to complete 5 credits of ED280EC to earn the ECE AAS degree. Students are eligible to enroll in the course once they have completed 5 terms of Practice. Cooperative education work sites and schedules vary.

Job Openings Projected through 2020
Childcare Worker
Lane County openings - 31 annually
Statewide openings - 426 annually
Teacher Assistant
Lane County openings - 51 annually
Statewide openings - 534 annually
Preschool Teacher
Lane County openings - 23 annually
Statewide openings - 230 annually

Wages
Childcare Worker
Lane County average hourly wage - $10.92; average annual - $22,710
Oregon average hourly wage- $11.95; average annual - $24,852
Teacher Assistant
Lane County average annual - $28,513
Oregon average annual - $30,222
Preschool Teacher
Lane County average hourly wage- $13.49; average annual - $28,062
Oregon average hourly wage- $14.91; average annual - $31,026

Costs
(Estimate based on 2015-16 tuition and fees. Consult Lane's website for updated tuition.)

Books .......................................................... $1,800
Program Specific Fees .............................................. $150
Resident Tuition and General Student Fees ........................................... $8,650

Total Estimated Cost $10,600

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• See course descriptions for prerequisite information
• For choices in Foundational Skills and Discipline Studies, see AAS degree description
• MTH course must be taken for a grade, not P/NP
• For choices in Foundational Skills and Discipline Studies, see AAS degree description.

First Year
Fall
ECE 110 Observing Young Children's Behavior.................. 1
ECE 120 Introduction to Early Childhood .................. 2
ECE 130 Guidance of Young Children.......................... 3
WR 115 Introduction to College Writing.......................... 4
ECE 140 Practicum 1 LCC Lab School .......................... 3
ECE 105 Health and Safety Issues in Early Childhood Education .................. 2

Winter
HDFS 226 Child Development ..................................... 3
ECE 140 Practicum 1 LCC Lab School .......................... 3
ECE 150 Creative Activities for Children .......................... 3
ECE 170 Infants and Toddlers Development .................. 4
MTH 025 Basic Mathematics Applications or higher ........... 3

Spring
Directed electives (refer to list below)
ECE 160 Exploring Early Childhood Curriculum .................. 4
ECE 240 Practicum 2 LCC Lab School .......................... 4
FN 130 Family Food and Nutrition .................................. 3
Choice of:
ANTH 103 Cultural Anthropology .................................. 3
CG 203 Human Relations at Work ................................... 3

Second Year
Fall
Directed electives (refer to list below)
ECE 240 Practicum 2 LCC Lab School .......................... 4
ECE 210 Applying Early Childhood Curriculum ................. 4
Science/Math/Computer Science requirement .................. 4

Winter
Discipline Studies requirement, Choice of:
Arts and Letters
Social Science
Choice of:
Science/Math/Computer Science .................................. 4
ECE 230 Family, School, Community Relations ................. 3
ECE 240 Practicum 2 LCC Lab School .......................... 4
HDFS 227 Children Under Stress .................................. 3

Spring
ECE 250 Infant and Toddler Environments .......................... 3
ECE 260 Administration of Child Care Programs ................. 3
Choice of:
Health Requirement
Physical Education Activity requirement .......................... 3

First Year Spring
Directed electives may be selected from the following list. Alternative courses must be approved by the Program Coordinator in advance.
CG 144 Introduction to Assertive Behavior
ED 225 Creative Dance for Children
ENG 100 Children's Literature
HDFS 228 Young Children with Special Needs
ECE 253 Diversity Issues in Early Childhood Education

Second Year Fall
Directed electives may be selected from the following list. Alternative courses must be approved by the Program Coordinator in advance.
CG 144 Introduction to Assertive Behavior
ED 225 Creative Dance for Children
ENG 100 Children's Literature
HDFS 228 Young Children with Special Needs
ECE 253 Diversity Issues in Early Childhood Education

Early Childhood Education
Offered by the Social Science, 541.463.5427
One-Year Certificate of Completion
Program Coordinator Contact Jean Bishop,
bishopj@lanecc.edu, 541.463.5287, Building 24, Room 201


**Early Childhood Education**

**Purpose**
To prepare students for successful careers as early childhood professionals in a variety of settings: for-profit and not-for-profit child development centers, on-site child development 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 student who successfully completes all Early Childhood Education requirements will:
- choose 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.

**Advising and Counseling**
Lori Areford, educationadvising@lanec.edu; Building 19, Room 247 Leslie Soriano, soriano@lanec.edu; 541.463.5512, Center Building, Room 204

**Cooperative Education (Co-op)**
Please contact Kathleen Lloyd, lloydk@lanec.edu, 541.463.5527, Building 24/27 Early Childhood Education (ECE) majors are required to complete 5 credits of ED280EC to earn the ECE AAS degree. Students are eligible to enroll in the course once they have completed 5 terms of Practicum. Cooperative education work sites and schedules vary.

**Job Openings Projected through 2020**
Lane County openings - 23 annually
Statewide openings - 230 annually

**Wages**
Lane County average hourly wage - $14.91; average annual - $31,026
Oregon average hourly wage - $13.49; average annual - $28,062

**Costs**
(Estimate based on 2015-16 tuition and fees. Consult Lane’s website for updated tuition.)

<table>
<thead>
<tr>
<th>Books</th>
<th>Resident Tuition and General Student Fees</th>
<th>Total Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,650</td>
<td>$5,002</td>
<td>$6,652</td>
</tr>
</tbody>
</table>

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

**Gainful Employment Disclosure**
25-2011.00
Go to the Department of Labor’s O*Net website for a profile of this occupation: Preschool Teachers, Except Special Education Onetonline.org/link/summary/25-2011.00

In academic year 2014-15, 10 students completed this certificate.

The program is designed to take 4 terms, or about 15 months of study to complete.

Of students who completed this certificate in the 2014-15 academic year, 20% completed on time. Note: The federally required method for calculating this rate assumes students will declare their completion program major immediately, enroll full-time each term, and remain enrolled at Lane continuously until they complete their program. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change majors, and brush-up on their academic skills to be better prepared for college level courses, all of which affect this narrowly defined on-time graduation rate.

The median loan debt incurred by students who completed the program in 2014-15 = $10,500.

### Explanation of costs: lanec.edu/esfs/credit-fees-and-expenses

#### Course Requirements
- 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
- MTH course must be taken for a grade, not P/NP
- See course descriptions for prerequisite information
- For choices in Foundational Skills and Discipline Studies, see AAS degree description.

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>ECE 105 Health and Safety Issues in Early Childhood Education</td>
</tr>
<tr>
<td><strong>Winter</strong></td>
<td>ECE 110 Observing Young Children’s Behavior</td>
</tr>
<tr>
<td></td>
<td>ECE 120 Introduction to Early Childhood</td>
</tr>
<tr>
<td></td>
<td>ECE 130 Guidance of Young Children</td>
</tr>
<tr>
<td></td>
<td>ECE 140 Practicum 1 LCC Lab School</td>
</tr>
<tr>
<td></td>
<td>WR 115 Introduction to College Writing</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>HDFS 226 Child Development</td>
</tr>
<tr>
<td></td>
<td>ECE 140 Practicum 1 LCC Lab School</td>
</tr>
<tr>
<td></td>
<td>ECE 150 Creative Activities for Children</td>
</tr>
<tr>
<td></td>
<td>ECE 170 Infants and Toddlers Development</td>
</tr>
<tr>
<td></td>
<td>MTH 025 Basic Mathematics Applications or higher</td>
</tr>
</tbody>
</table>

### Directed Electives
Directed Electives (refer to list below)

- Alternative courses must be approved by the Program Coordinator.

| Choice of: |
| ANTH 103 Cultural Anthropology | |
| CG 203 Human Relations at Work | 3-4 |

### Directed Electives

| Directed Electives may be selected from the following list. Alternative courses must be approved by the Program Coordinator. |
| CG 144 Introduction to Assertive Behavior | |
| CG 204 Eliminating Self-Defeating Behavior | |
| ED 225 Creative Dance for Children | |
| ENG 100 Children’s Literature | |
| HDFS 228 Young Children with Special Needs | |
| ECE 253 Diversity Issues in Early Childhood Education | |

## Early Childhood Teacher Aide 1

**Offered by the Social Science Department, 541.463.5427**

### Career Pathway Certificate

**Program Coordinator**
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 lanec.edu/cfe/ece.

**Purpose**
Prepares student to work in an early childhood education setting as a Teacher Aide 1 as defined by the Oregon Child Care Division. Students completing this certificate will also achieve Level 7.5 in the Oregon Professional Development Registry for Early Childhood.

**Learning Outcomes**
The graduate will:
- develop a creative imagination to understand suitable art forms to offer young children.
- be able to explain theories of development relating to the early years.
- express and understand the use of guidance that supports moral autonomy in young children.
- identify state rules and regulations regarding health and safety which govern licensing of early childhood programs.
- demonstrate in a supervised lab school setting awareness of consistent, appropriate guidance and developmentally appropriate.
Advising and Counseling  Lori Areford can be reached at educationadvising@lanecc.edu. Leslie Soriano can be reached at sori-anol@lanecc.edu or at 541.463.5512.

Course Requirements
- All classes, with the exception of ECE 105 are articulated at LCC as College Now classes.
- ECE 105 and ECE 130 must be taken at LCC (or a similar class at another college) for college credit.

ECE 105 Health and Safety Issues in Early Childhood Education ........................................ 2
ECE 120 Introduction to Early Childhood ......................................................... 2
ECE 130 Guidance of Young Children......................................................... 3
ECE 140 Practicum 1 -LCC Lab School .................................................. 3
HDFS 226 Child Development ................................................................. 3

Guidance and Curriculum
Offered by the Social Science Department, 541.463.5427
Career Pathway Certificate
Program Coordinator Jean Bishop, bishopj@lanecc.edu; 541.463.5287

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.

Advising and Counseling  Lori Areford can be reached at educationadvising@lanecc.edu. Leslie Soriano can be reached at sori-anol@lanecc.edu or at 541.463.5512.

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

ECE 120 Introduction to Early Childhood ......................................................... 2
ECE 130 Guidance of Young Children......................................................... 3
ECE 140 Practicum 1 -LCC Lab School .................................................. 3
ECE 150 Creative Activities for Children...................................................... 3
ECE 160 Exploring Early Childhood Curriculum ........................................ 4
ECE 210 Applying Early Childhood Curriculum ......................................... 4

Infant and Toddler
Offered by the Social Science Department, 541.463.5427
Career Pathway Certificate
Program Coordinator Jean Bishop, bishopj@lanecc.edu; 541.463.5287, Building 24, Room 121

Purpose Prepares graduates to plan environments of high quality for infants and toddlers and carry out developmentally appropriate curriculum.

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.

Advising and Counseling  Lori Areford can be reached at educationadvising@lanecc.edu. Leslie Soriano can be reached at sori-anol@lanecc.edu or at 541.463.5512.

Cooperative Education (Co-op) Please contact Kathleen Lloyd, lloydk@lanecc.edu, 541.463.5527, Building 24/27 Early Childhood Education (ECE) majors are required to complete 5 credits of ED280EC to earn the ECE AAS degree. Students are eligible to enroll in the course once they have completed 5 terms of Practicum. Cooperative education work sites and schedules vary.

Course Requirements
- All ECE and HDFS courses must be taken for a grade, not P/ NP, and must be passed with a ‘C-’ or better to fulfill program requirements

ECE 130 Guidance of Young Children......................................................... 3
ECE 140 Practicum 1 LCC Lab School .................................................. 3
ECE 170 Infants and Toddlers Development ............................................. 4
ECE 250 Infant and Toddler Environments ............................................. 3
HDFS 226 Child Development ................................................................. 3

Electrician Apprenticeship Technologies
Offered by the Advanced Technology Division, 541.463.5380
Associate of Applied Science Degree

One-Year Certificate of Completion - Electrician Apprenticeship Technologies
Less than One-Year Certificate of Completion - Limited Electrician Apprenticeship Technologies
Program Coordinator Joy Crump, Bldg. 15 Rm. 201, 541.463.5496, crumpj@lanecc.edu

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.

Licensing and Certification 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: Electricians 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 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).

Advising and Counseling lanecc.edu/advtech/counselor-and-advisor -drop-hours

Job Openings Projected through 2020 Lane County openings - 20 annually Statewide openings - 273 annually

Wages Lane County average hourly - $31.22; average annual - $64,955 Oregon average hourly - $32.96; average annual - $68,568 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

Costs Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition. 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.

Books ................................................................. $1,750
Resident Tuition and General Student Fees ........................................ $8,400

Total Estimated Cost $10,150

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- 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.
- Prerequisites are required for some courses. See course descriptions.
- All courses must be completed with a letter grade of ‘C’ or better.
- 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.

General Education
WR 115W Introduction to College Writing: Workplace Emphasis or higher ...................................................... 3
MTH 060 Beginning Algebra or higher ............................................ 4
PE/Health Requirement .................................................................. 3
Arts and Letters requirement ......................................................... 3
Human Relations requirement ....................................................... 3
Science/Math/Computer Science requirement .............................. 3

Choice of:
- Arts and Letters requirement
- Human Relations/Social Science requirement
- Science/Math/Computer Science requirement .............................. 3

Journeyman card from Oregon Bureau of Labor and Industries Apprenticeship and Training Division (22 credits)
State of Oregon Apprenticeship Training Journey-level card or BOLI-ATD Certificate of Completion .................................................. 22

Limited Maintenance Electrician (20-21 credits)
APR 189 Shop Practices .................................................................. 2
APR 190 Electrical Theory 1 ............................................................ 4
APR 191 Electrical Theory 2 ............................................................ 4
APR 220 Electrical Apprenticeship Code and Exam Preparation .................................................. 2-3
APR 285 Motors ........................................................................... 4
APR 286 Motors 2 ......................................................................... 4

Limited Energy Technician License B (26-27 credits)
APR 101A Trade Skills Fundamentals .................................................. 4
APR 140 Electrical Systems Installation Methods .............................. 4
APR 141 Limited Voltage Electrical Circuits ........................................ 4
APR 142 Devices, Testing Equipment and Code ................................. 4
APR 143 Limited Voltage Cabling ..................................................... 4
APR 144 Communications ............................................................... 4
APR 220 Electrical Apprenticeship Code and Exam Preparation .................................................. 2-3
APR 285 Motors ........................................................................... 4
APR 286 Motors 2 ......................................................................... 4

Limited Energy Technician License A (38-39 credits)
APR 101A Trade Skills Fundamentals .................................................. 4
APR 140 Electrical Systems Installation Methods .............................. 4
APR 141 Limited Voltage Electrical Circuits ........................................ 4
APR 142 Devices, Testing Equipment and Code ................................. 4
APR 143 Limited Voltage Cabling ..................................................... 4
APR 144 Communications ............................................................... 4
APR 220 Electrical Apprenticeship Code and Exam Preparation .................................................. 2-3
APR 240 Audio and Intrusion Systems ................................................ 4
APR 241 Fire Alarm Systems and Nurse Call ...................................... 4
APR 242 Limited Voltage System Integration ..................................... 4

Manufacturing Plant Electrician (38-41 credits)
APR 185 Shielded Metal Arc Welding 1 .............................................. 2
APR 189 Shop Practices .................................................................. 2
APR 190 Electrical Theory 1 ............................................................ 4
APR 191 Electrical Theory 2 ............................................................ 4
APR 220 Electrical Apprenticeship Code and Exam Preparation .................................................. 6-9
APR 285 Motors ........................................................................... 4
APR 286 Motors 2 ......................................................................... 4
APR 290 Programmable Controllers 1 .............................................. 4
APR 291 Programmable Controllers 2 .............................................. 4
APR 292 Programmable Controllers 3 .............................................. 4

Inside Wire Electrician (45-48 credits)
APR 130 Electrical Principles ............................................................ 5
CAREER TECHNICAL

108  Electrician Apprenticeship Technologies

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 Apprenticeship Code and Exam Preparation ...................................................... 6-9
APR 225 Electrical Motor Controls ............................................. 5
APR 228 Electrical Grounding/Bonding and Blueprint Reading .................................................... 5
APR 227 Electrical System Troubleshooting ....................... 3

Program Electives to complete 90 credits for degree:
APR 101 Trade Skills Fundamentals ......................... 4
APR 105 Electrical Wiring for the Trades ................. 4
CS 120 Concepts of Computing: Information Processing ................................................................. 4
CST 110 Blueprint Reading 1 .............................................. 3
CST 111 Construction Orientation and Environment .... 2
CST 118 Building Construction .......................................... 5
HE 152 Drugs, Society and Behavior ........................................ 3
HE 252 First Aid ............................................................... 3
MTH 085 Applied Geometry for Technicians .............. 4
MTH 111 College Algebra ..................................................... 5
MTH 112 Trigonometry ......................................................... 5
RTEC 105 Introduction to Advanced Technology ....... 3
WLD 121 Shielded Metal Arc-Welding 1 ................. 4
DRF 160 Computer-Aided Drafting and Design ........... 4

Electrician Apprenticeship Technologies

Offered by the Advanced Technology Division, 541.463.5380
One-Year Certificate of Completion

Program Coordinator Joy Crump, Bldg. 15 Rm. 201, 541.463.5496, crumpj@lanecc.edu

Purpose 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 The graduate will:
• apply theory to electrical wiring.
• repair and install electrical wire devices according to licensure regulations to meet National Electrical Code and Oregon Building Codes Division for Inside Electrician, Limited Energy Technician-License A, and/or Manufacturing Plant Electrician.

Licensing and Certification 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.

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).

Advising and Counseling lanec.edu/advtech/counselor-and-advisor-drop-hours

Job Openings Projected through 2020
Lane County openings - 20 annually
Statewide openings - 273 annually

Wages
Lane County average hourly - $31.22; average annual - $64,955
Oregon average hourly - $32.96; average annual - $69,568
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

Costs Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition. 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.
Books ................................................................. $1,750
Resident Tuition and General Student Fees ......................... $8,400
Total Estimated Cost $10,150

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• 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 9 (communication, computation, human relations)
complete core-related training credits 38-48
Total Credits 47-57

• Minimum placement scores of Reading 68, Writing 64, and readiness for MTH 60. Note: See the counselor or advisor to obtain the suggested entry-level skills for successful completion of these programs.

Related Instruction (9 credits)
Communication ......................................................... 3
Computation .............................................................. 3
Human Relations .......................................................... 3
Limited Energy Technician License A (38-39 credits)
APR 101A Trade Skills Fundamentals ........................................... 4
APR 140 Electrical Systems Installation Methods ......................... 4
APR 141 Limited Voltage Electrical Circuits .................................. 4
APR 142 Devices, Testing Equipment and Code ............................. 4
APR 143 Limited Voltage Cabling .................................................. 4
APR 144 Communications ............................................................. 4
APR 220 Electrical Apprenticeship Code and Exam Preparation ............. 2-3
APR 240 Audio and Intrusion Systems ........................................... 4
APR 241 Fire Alarm Systems and Nurse Call ................................ 4
APR 242 Limited Voltage System Integration ................................. 4

Manufacturing Plant Electrician (38-41 credits)
APR 185 Shielded Metal Arc Welding 1 ......................................... 2
APR 189 Shop Practices ............................................................... 2
APR 190 Electrical Theory 1 ........................................................... 4
APR 191 Electrical Theory 2 ........................................................... 4
APR 220 Electrical Apprenticeship Code and Exam Preparation ............. 6-9
APR 285 Motors .......................................................................... 4
APR 286 Motors 2 ........................................................................ 4
APR 290 Programmable Controllers 1 .......................................... 4
APR 291 Programmable Controllers 2 .......................................... 4
APR 292 Programmable Controllers 3 .......................................... 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 Apprenticeship Code and Exam Preparation ............. 6-9
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

Offered by the Advanced Technology Division, 541.463.5380

Less than One-Year Certificate of Completion

Program Coordinator Joy Crump, Bldg. 15 Rm. 201, 541.463.5496, crumpj@lanecc.edu.

Purpose Students may earn a Certificate of Completion in Limited Electrician Apprenticeship Technologies by successfully completing core related training credits and providing a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD 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.

 Licensing and Certification 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 also 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.

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).

Advising and Counseling lanecc.edu/advtech/counselor-and-advisor

-W-city-hours

Job Openings Projected through 2020
Lane County openings - 20 annually
Statewide openings - 273 annually

Wages
Lane County average hourly - $31.22; average annual - $64,955
Oregon average hourly - $32.96; average annual - $68,568
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

Costs Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition. 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.

Books .................................................................................. $1,750
Resident Tuition and General Student Fees ................................. $8,400

Total Estimated Cost $10,150

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Prerequisites are required for some courses. See course descriptions.
- All courses must be completed with a letter grade of “C” or better.
- To earn the certificate, student must:
- complete 4000 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
- complete core related training 20-27 credits
- Minimum placement scores of Reading 68, Writing 64, and readiness for MTH 60. Note: See the counselor or advisor to obtain the suggested entry-level skills for successful completion of these programs.

Limited Maintenance Electrician (20-21 credits)
APR 189 Shop Practices ............................................................... 2
Energy Management Technician
(ONLINE)

Offered by the Institute for Sustainable Practices, 541.463.6160

Associate of Applied Science Degree

Associate of Applied Science Degree Option - Energy Management Technician: Building Controls Technician Option

Program Coordinator Roger Ebbage, Bldg. DCA, Rm. 404, ebbager@lanecc.edu 541.463.6160

Purpose
The Energy Management Technician option is exclusively online and prepares students for a career in Energy Management. Through this program, students will learn how to understand and commercial building systems consume energy by understanding how they work and the interaction between one another. Students will be able to evaluate and measure consumption and make an informed recommendation on building system energy efficiency improvements.

Learning Outcomes
Upon completion of this degree/certificate the graduate will:
• evaluate the energy use patterns for residential and commercial buildings and recommend energy efficiency measures and renewable energy solutions for high energy consuming buildings.
• understand the interaction between energy consuming building systems and make energy use reduction recommendations based on that understanding.
• construct energy evaluation technical reports and make presentations for potential project implementation.
• 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 appropriate technology (e.g., excel and other computer software).
• develop and evaluate inferences and predictions that are based on collected data.
• interpret the concepts of a problem-solving task, and, using mathematics, translate concepts into energy related projects.
• use appropriate library and digital information resources to research professional objectives and support lifelong learning.
• read and analyze building blueprints including floor, mechanical, and electrical plans. Read elevations, sections, schedules, and construction notes.

Accreditation

Licensing and Certification
Association of Energy Engineers Certified Energy Manager In Training (EMIT)

Admission Information
Roger Ebbage, Bldg. DCA, Rm. 404, ebbager@lanecc.edu. Students must apply to the program by completing an Energy Program application. Applicants must have completed Math 065 or 070 prior to enrollment. Individual courses may be taken with department/instructor approval.

Advising and Counseling
Roger Ebbage, Bldg. DCA, Rm. 404, ebbager@lanecc.edu

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 their degree requirements. Contact Gerry Meenaghan at: MeenaghanG@lanecc.edu Phone: 541.463.5883 Office: Building 19, Room 154

Job Openings Projected through 2020
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: $40,000-$50,000 annually.

Costs
(estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.) * Subject to change without notice.

Program Specific Fees.......................................................... $1,000
Resident Tuition and General Student Fees......................... $10,227

Total Estimated Cost $11,227

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Deviation from the prescribed course sequence will impact a student's ability to complete the program in a two year time frame.
• Completion of Math 65 or Math 70 or Program Coordinator permission must be obtained prior to enrolling in the program.
• It is recommended but not required, that General Education requirements are taken prior to entering the program.
• All NRG courses are offered fully online.
• MTH 95 can be taken any term but must be completed by the end of the first year.
• Deviation from the prescribed course sequence will impact a student's ability to complete the program in a two year time frame.
• Directed Electives may be taken online or locally at Lane Community College or transferred in from another institution.
• Lane Community College does not offer CST 110, Ph 101/102, online. These courses must be taken locally at Lane Community College or transferred in from another institution.
• Health/PE requirement, Directed Electives, WR 121, and WR 227 may be taken any term.
• Prerequisites are required for some courses. See course descriptions.

First Year

Choice of:
WR 121 Academic Composition
WR 121_H Academic Composition

Fall
BT 123 MS EXCEL for Business................................. 4
NRG 101 Introduction to Energy Management........... 3
MTH 095 Intermediate Algebra............................. 5
PH 101 Fundamentals of Physics.......................... 4
CST 110 Blueprint Reading 1................................. 3

Winter

Choice of:
WR 121 Academic Composition
WR 121_H Academic Composition........................ 4
Energy Management Technician: Building Controls Technician Option

Offered by the Institute for Sustainable Practices, 541.463.6160

Associate of Applied Science Degree Option

Program Coordinator Roger Ebbage, Bldg. DCA, Rm. 404, ebbager@lanec.edu

Purpose Through this program, students will learn how residential and commercial building systems consume energy by understanding how systems work and the interaction between one another. Students will be able to evaluate and measure consumption and make an informed recommendation on building system energy efficiency improvements. Students will also learn the basics of Building Controls systems and how they are fundamental to achieving higher levels of energy efficiency through building operation. Employment is found with Controls System Suppliers, Controls Installation Contractors, Government, Utilities, Engineering Firms, School Districts.

Learning Outcomes The student who successfully completes all Energy Management Technician: Building Controls Technician Option requirements will:
• understand the interaction between energy consuming building systems and make energy use reduction recommendations based on that understanding.
• use appropriate library and information resources to research professional issues and support lifelong learning.
• analyze a variety of commercial HVAC and lighting systems from a controls perspective.
• become familiar with modules and electronics commonly used to implement building automation schemes.
• write building control systems schemes.
• understand control system management software.
• diagnose and troubleshoot existing building control systems.

Licensing and Certification Association of Energy Engineers Certified Energy Manager In Training (EMIT)

Admission Information Roger Ebbage, Bldg. DCA, Rm. 404, ebbager@lanec.edu. Students must apply to the program by completing an Energy Program application. Applicants must have completed Math 065 or 070 prior to enrollment. Individual courses may be taken with department/instructor approval.

Advising and Counseling Roger Ebbage, Bldg. DCA, Rm. 404, ebbager@lanec.edu

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 their degree requirements. Contact Gerry Meenaghan at: MeenaghanG@lanec.edu; Phone: 541.463.5883; Office: Building 19, Room 154

Job Openings Projected through 2020

Employment opportunities in the Energy Management - Building Controls 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
Building Controls Technician: $40,000-65,000

Costs (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.) * Subject to change without notice.

Program Specific Fees $1,000
Resident Tuition and General Student Fees $10,227

Total Estimated Cost $11,227

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Completion of Math 65 or Math 70 or Program Coordinator permission must be obtained prior to enrolling in the program.
• It is recommended but not required, that General Education requirements are taken prior to entering the program.
• Deviation from the prescribed course sequence will impact a student's ability to complete the program in a two year time frame.
• Human Relations, Health/PE requirements, WR 121, and WR 227 may be taken any term.
• MTH 95 can be taken any term but must be completed by the end of the first year.
• Prerequisites are required for some courses. See course descriptions.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
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</tr>
<tr>
<td>BT 123 MS EXCEL for Business</td>
<td>4</td>
</tr>
<tr>
<td>NRG 101 Introduction to Energy Management</td>
<td>3</td>
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<tr>
<td>PH 101 Fundamentals of Physics</td>
<td>4</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>NRG 111 Residential/Light Commercial Energy</td>
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</tr>
<tr>
<td>PH 102 Fundamentals of Physics</td>
<td>4</td>
</tr>
<tr>
<td>NRG 103 Sustainability in The Built Environment</td>
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<td>NRG 154 Alternative Energy Technologies</td>
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Winter

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<tr>
<th>Course</th>
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<tr>
<td>NRG 124 Energy Efficiency Methods</td>
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<tr>
<td>NRG 131 Lighting Fundamentals</td>
<td>3</td>
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<tr>
<td>WR 227 Technical Writing</td>
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<td>NRG 121 Air Conditioning System Analysis</td>
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<td>NRG 206 A/B Coop Seminar</td>
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Fall

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<tr>
<th>Course</th>
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<tr>
<td>NRG 122 Commercial Air Conditioning System Analysis</td>
<td>3</td>
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<tr>
<td>Human Relations Requirement</td>
<td>3</td>
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<tr>
<td>WATR 202 Fostering Sustainable Practices</td>
<td>3</td>
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<tr>
<td>Directed Elective</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRG 142 Energy Accounting</td>
<td>3</td>
</tr>
<tr>
<td>NRG 110 Energy Efficiency Industry Software Applications</td>
<td>4</td>
</tr>
<tr>
<td>NRG 280 Co-op Ed: Energy Management</td>
<td>6</td>
</tr>
</tbody>
</table>
Exercise and Movement Science

The Associate of Applied Science Degree and the Two-Year Certification of Completion have been discontinued. Students currently enrolled in the program should contact Counseling and Advising at 541.463.3200 for information about completing core courses.

Fitness Specialist Level 1

Offered by the Health, Physical Education and Athletics Division, 541.463.5545

One-Year Certificate of Completion

Program Coordinator Call Jenni Miner, 541.463.5246.

Purpose The Fitness Specialist Level 1 Certificate is to prepare students for various careers in the fitness industry, including personal training, group exercise instruction, coaching, athletic training, wellness coaching, and recreation management.

Learning Outcomes The graduate will:

- administer various basic fitness assessments including the measurement of cardiovascular endurance, body composition, flexibility, muscular strength and endurance in gym or health club settings.
- apply and interpret basic algebraic formulas to fitness assessment data and exercise programming.
- demonstrate interpersonal skills in the areas of leadership, motivation, and communication.
- design and demonstrate safe and effective exercise programs for apparently healthy individuals and groups within current fitness industry standards and best practices.
- respond to the needs of a diverse clientele and demonstrate inclusive practices.
- understand and apply basic behavior modification strategies to enhance exercise and health behavior change with clients.
- 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 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.

Costs Estimates based on 2014-2015 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane's website for updated tuition and fees.

| Books | $390 |
| Resident Tuition and General Student Fees | $5,688 |
| **Total Estimated Cost** | **$6,078** |

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Gainful Employment Disclosure

39-9031.00

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

In academic year 2014-15, 12 students completed this certificate. The program is designed to take 4 terms, or about 15 months of study to complete.

Of students who completed this certificate in the 2014-15 academic year, 8% completed on time. Note: The federally required method for calculating this rate assumes students will declare their completion program major immediately, enroll full-time each term, and remain enrolled at Lane continuously until they complete their program. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change majors, and brush-up on their academic skills to be better prepared for college level courses, all of which affect this narrowly defined on-time graduation rate.

The median loan debt incurred by students who completed the program in 2014-15 = $3,180.

Explanation of costs: lanecc.edu/esfs/credit-fees-and-expenses
Group Exercise Instructor Certificate
Offered by the Health, Physical Education and Athletics Division, 541.463.5545

Career Pathway Certificate
Program Coordinator Call Jenni Miner, 541.463.5246.

Purpose
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 Interdisciplinary Practicum experiences serve as an entry point 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:

- demonstrate excellent interpersonal skills in the areas of leadership, exercise motivation, and communication (written, verbal, and non-verbal).
- design, evaluate, and instruct safe and effective group exercise classes utilizing a variety of exercise modalities.
- understand the role of proper nutrition and training techniques as they relate to physical fitness and weight management.
- apply nationally recognized standards for group exercise instruction.
- appropriately modify and adapt group classes to meet the needs of a variety of participants.
- communicate to participants the benefits, risks, and precautions involved with participation in group exercise.
- identify and communicate the unique benefits of group exercise in the health and fitness industry.
- identify and implement risk management strategies and safety precautions to ensure a safe and productive exercise experience for all participants.

Costs
Estimates based on 2014-2015 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>Books</th>
<th>$250</th>
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<tbody>
<tr>
<td>Resident Tuition and General Student Fees</td>
<td>$1,545</td>
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<tr>
<td><strong>Total Estimated Cost</strong></td>
<td><strong>$1,795</strong></td>
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</table>

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Fabrication/Welding Technology
Offered by the Advanced Technology Division, 541.463.5380

Associate of Applied Science Degree

One-Year Certificate of Completion - Fabrication Welding

One-Year Certificate of Completion - Welding Processes

Career Pathway Certificate - Shielded Metal Arc Welder

Career Pathway Certificate - Wire Drive Welder

Program Coordinator
Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

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:

- apply knowledge of forming, fitting, and welding processes.
- demonstrate entry-level fabrication techniques and welding processes and application including GTAW, structural and pipefitting, metalurgy, and quality control procedures.
- use appropriate library and information resources to research professional issues and support lifelong learning.
- use blueprint-reading skills, cost estimating, applied science of materials, and mathematics necessary to the profession.
- demonstrate and use industry safety standards.
- use mathematical formulas to calculate area, volume, and weight of metal objects.

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@lanecc.edu

Advising and Counseling
classes.lanecc.edu/course/view.php?id=31255

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 Chuck Fike, Fabrication/Welding Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206. 541.463.5078, fikec@lanecc.edu

Job Openings Projected through 2020
Lane County openings - 47 annually
Statewide openings - 547 annually

Wages
Lane County average hourly - $18.55 to $24.84; average annual - $38,587 to $51,680
Oregon average hourly - $18.53 to $27.15; average annual - $38,535 to $56,481

Costs
(Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)

<table>
<thead>
<tr>
<th>Books</th>
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<td>Instruments/Tools</td>
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<td>Program Specific Fees</td>
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Fabrication/Welding Technology

Offered by the Advanced Technology Division, 541.463.5380

One-Year Certificate of Completion

Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

Purpose The Fabrication/Welding Certificate Program prepares graduates for employment as Welders/Fabricators.

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 necessary to the building of metal products.
- apply mathematics necessary to fabricate metal products.
- perform at entry-level typical industrial welding processes.
- demonstrate at entry-level use of certain machine tools commonly found in industry.
- demonstrate and use industry safety standards.
- use appropriate library and information resources to research professional issues and support lifelong learning.

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- 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.
- WR115W and PE/Health requirement must be completed with a “C-” or better or Pass grade.
- Choices for requirements in Arts and Letters, Social Science, and Science are listed on the Associate of Applied Science degree page.
- 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.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 112 Fabrication/Welding 1</td>
<td>12</td>
<td></td>
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<tr>
<td>MTH 085 Applied Geometry for Technicians</td>
<td>4</td>
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<tr>
<td>WLD 113 Fabrication/Welding 2</td>
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<td>CG 203 Human Relations at Work</td>
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<tr>
<td>WLD 114 Fabrication/Welding 3</td>
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<tr>
<td>WR 115W Introduction to College Writing: Workplace Emphasis</td>
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Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>MFG 101 Safety and Basic Shop Practice</td>
<td>3</td>
<td>12</td>
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<tr>
<td>WLD 215 Fabrication/Welding 4</td>
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<tr>
<td>Choice of: Arts/Letters Requirement</td>
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<tr>
<td>Social Science Requirement</td>
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<tr>
<td>Science or Computer Science Course</td>
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<tr>
<td>WLD 216 Fabrication/Welding 5</td>
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<tr>
<td>PE/Health Requirement</td>
<td>3</td>
<td></td>
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<tr>
<td>Science or Computer Science Course</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>WLD 217 Fabrication/Welding 6</td>
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<td>Welding Elective</td>
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<tr>
<td>Arts and Letters Requirement</td>
<td></td>
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</tr>
</tbody>
</table>

Fabrication Welding

Admission Information See lanecc.edu/advtech/wld 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 Chuck Fike, Fabrication/Welding Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206. 541.463.5078, fikec@lanecc.edu

Job Openings Projected through 2020
Lane County: 23 positions
Statewide: 257 positions

Wages
Lane County average hourly - $19.26; average annual - $40,070
Oregon average hourly - $20.57; average annual - $42,791

Costs (Estimates based on 2016-17 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)

- Books .................................................. $858
- Instruments/Tools .................................. $300
- Program Specific Fees ............................ $1,642
- Resident Tuition and General Student Fees .... $5,260

Total Estimated Cost $8,060

Gainful Employment Disclosure

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/51-4121.06 Or check on these O*Net Related Occupations: Welders, Cutters, and Welder Fitters onetonline.org/link/summary/51-2041.00

In academic year 2014-15, 6 students completed this certificate. The program is designed to take 4 terms, or about 15 months of study to complete.

Lane Community College is committed to protecting student privacy and does not publish this rate for fewer than 10 graduates.

For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.

Explanation of costs: lanecc.edu/esfs/credit-fees-and-expenses

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- 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.
- 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.

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 112 Fabrication/Welding 1</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>MTH 085 Applied Geometry for Technicians</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD 113 Fabrication/Welding 2</td>
<td>12</td>
</tr>
</tbody>
</table>
### Shielded Metal Arc Welder

**Offered by the Advanced Technology Division, 541.463.5380**

**Career Pathway Certificate**

**Program Coordinator** Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

**Purpose** To prepare the graduate for employment for entry-level positions in the metal fabrication industry.

**Learning Outcomes** The graduate will:

- 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.

**Admission Information** See lanecc.edu/advtech/wld or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

**Advising and Counseling** classes.lanecc.edu/course/view.php?id=31255

**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 Chuck Fike, Fabrication/Welding Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206. 541.463.5078, fikec@lanecc.edu

**Job Openings Projected through 2020**

**Lane County:** 1 positions

**Statewide:** 11 positions

**Wages**

- Lane County average hourly - $18.53; average annual - $38,535
- Oregon average hourly - $18.55; average annual - $38,587

**Costs** (Estimate based on 2016-17 data for full-time students. Consult Lane's website for updated tuition and fees.)

- Books ................................................................. $343
- Program Specific Fees ........................................... $630
- Resident Tuition and General Student Fees ............... $1,928

**Total Estimated Cost** $2,901

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

**Course Requirements**

- Prerequisites are required for some courses. See course descriptions.
- 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.
- Students may be able to substitute an alternative welding course. Please see an academic advisor to arrange pre-approved substitutions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD121 Shielded Metal Arc Welding 1</td>
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<tr>
<td>MTH 085 Applied Geometry for Technicians</td>
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<tr>
<td>WLD122 Shielded Metal Arc Welding 2</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD141 Welder Qualification (Certification): SMAW</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Welding Processes

**Offered by the Advanced Technology Division, 541.463.5380**

**One-Year Certificate of Completion**

**Program Coordinator** Tracy Rea, Bldg. 15, Rm. 201, 541.463.5151, reat@lanecc.edu

**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.

**Admission Information** See lanecc.edu/advtech/wld or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

**Advising and Counseling** classes.lanecc.edu/course/view.php?id=31255

**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 Chuck Fike, Fabrication/Welding Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Room 206. 541.463.5078, fikec@lanecc.edu

**Job Openings Projected through 2020**

**Lane County:** 23 positions

**Statewide:** 257 positions

**Wages**

- Lane County average hourly - $19.26; average annual - $40,070
- Oregon average hourly - $20.57; average annual - $42,791

**Costs** (Estimates based on 2016-17 data for full-time students. Students attending part-time will incur additional term fees.)

- Books ................................................................. $748
- Instruments/Tools .................................................... $385
- Program Specific Fees ........................................... $1,630
- Resident Tuition and General Student Fees ....................... $5,785

**Total Estimated Cost** $8,548

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

### Gainful Employment Disclosure

**Standard Occupational Classification:** 51-412.06 Go to the Department of Labor’s O*Net website for a profile of this occupation: Structural Metal Fabricators and Fitters Oneonline.org/
Co-op offers students college
Cooperative Education (Co-op)

CAREER TECHNICAL
Fabrication/Welding Technology - Flight Technology

Purpose
To prepare students for successful careers as pilots in the air transportation industry.

Learning Outcomes
The student who successfully completes all Flight Technology requirements 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

Flight Technology
Offered by the Lane Aviation Academy, 541-463-4195
Associate of Applied Science Degree

Program Coordinator
Stephen Boulton - Director

Purpose
To prepare students for successful careers as pilots in the air transportation industry.

Learning Outcomes
The student who successfully completes all Flight Technology requirements will:

• be certificated by the FAA as a 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
Accreditation  Flight Technology Private Pilot Instrument and Commercial Flight Training is FAA Part 141 approved.

Admission Information  Contact Lane Aviation Academy; lanecc.edu/aviationacademy Phone: 541.463.4195 Email: flight@lanecc.edu

Advising & Counseling  Flight Technology Program Advisors are:
* Trish Lyttyn: Phone: (541) 463-5292, Email: lyttynp@lanecc.edu
* Carolyn Litty: Office: Bldg. 12, Rm. 202, Phone: (541) 463-5236, Email: littycc@lanecc.edu
* Claudia Riumallo: Office: Bldg. 12, Rm. 203, Phone: (541) 463-5378, Email: riumalloc@lanecc.edu
Advisor Drop-in hours are updated weekly at: lanecc.edu/advtech/counselor-and-advisor-drop-hours

Cooperative Education (Co-op)  Co-op offers students college credit and a grade for on-the-job 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 Chuck Fike, Flight Technology Co-op Coordinator, Bldg. 19, Rm. 266 or Bldg. 12, Room 209, 541.463.5078, fikecc@lanecc.edu

Job Openings Projected through 2022  
Lane County openings: 18 annually
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 2016-17 costs and are subject to change. See the online credit class schedule for the most current information.

Standard Size Student (under 220 lbs., under 6’2”, under 39” sitting height)  
Books................................................................. $1,800
Certification, Licensure, Exams, Physicals.............................. $1,000
Instruments/Tools.................................................. $300
Program Specific Fees............................................. $49,239
Resident Tuition and General Student Fees.......................... $12,397
Total Estimated Cost $64,736

Non-Standard Size Student  
Books................................................................. $1,800
Certification, Licensure, Exams, Physicals.............................. $1,000
Instruments/Tools.................................................. $300
Program Specific Fees............................................. $50,726
Resident Tuition and General Student Fees.......................... $12,397
Total Estimated Cost $66,223

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements  
• Prerequisites are required for some courses. See course descriptions.
• All GS and FT courses (except FT 102) 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.
• CS 120, FT 102, MTH 095 and WR 121 must be completed with a grade of ‘C’ or better.
• Choices for Arts and Letters and Human Relations requirements
• A VIB (Veterans Information Bulletin) with current program costs is provided in Flight Technology’s initial Application Packet.
• Graduates may also transfer to a four-year university preparing for a professional degree.
• All Private, Instrument, and Commercial flight courses must be completed to fulfill the AAS degree requirements.
• Private Pilot courses are to be chosen based on student size. Students under 220 lbs, under 6’2”, under 39” sitting height choose FT 141, FT 142, and FT 143. Students at or above these limits choose FT 141W, FT 142W, and FT143W.
• Students must complete the 105 required core credits to be awarded the AAS in Flight Technology.

Prerequisites  
An applicant may complete the following courses prior to program entry: * Arts and Letters requirement: 3 credits * Human Relations requirement: 3 credits

First Year  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>FT 102 General Aviation Careers</td>
<td>1</td>
<td>Fall</td>
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<tr>
<td>FT 103 Aircraft Safety Development</td>
<td>4</td>
<td>Fall</td>
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<tr>
<td>Choice of:</td>
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<tr>
<td>FT 141 Private Pilot - Stage One</td>
<td>6</td>
<td>Fall</td>
</tr>
<tr>
<td>FT 141W Private Pilot - Stage One</td>
<td>5</td>
<td>Fall</td>
</tr>
<tr>
<td>FT 250 Private Pilot Ground School</td>
<td>3</td>
<td>Winter</td>
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<tr>
<td>Choice of:</td>
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<tr>
<td>FT 142 Private Pilot - Stage Two</td>
<td>3</td>
<td>Winter</td>
</tr>
<tr>
<td>FT 142W Private Pilot - Stage Two</td>
<td>3</td>
<td>Winter</td>
</tr>
<tr>
<td>FT 143 Private Pilot - Stage Three</td>
<td>3</td>
<td>Winter</td>
</tr>
<tr>
<td>FT 143W Private Pilot - Stage Three</td>
<td>3</td>
<td>Winter</td>
</tr>
<tr>
<td>FT 141W Intermediate Algebra or higher mathematics</td>
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<td>Winter</td>
</tr>
<tr>
<td>FT 124 UAS Flight Lab (additional elective)</td>
<td>1-6</td>
<td>Winter</td>
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</table>

Spring  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>FT 115 Aircraft Structures and Systems</td>
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<tr>
<td>FT 221 Commercial Pilot - Stage One</td>
<td>3</td>
<td>Spring</td>
</tr>
<tr>
<td>FT 222 Commercial Pilot - Stage Two</td>
<td>3</td>
<td>Spring</td>
</tr>
<tr>
<td>FT 251 Commercial Pilot Ground School</td>
<td>4</td>
<td>Spring</td>
</tr>
<tr>
<td>FT 261 Air Traffic Control and Airspace</td>
<td>1</td>
<td>Spring</td>
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<tr>
<td>Choice of: WR 121 Composition: Academic Composition or higher writing</td>
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<td>Spring</td>
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<tr>
<td>WR 121_H Composition: Academic Composition or higher writing</td>
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Summer  

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<tr>
<th>Course</th>
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<th>Semester</th>
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<tbody>
<tr>
<td>FT 201 Instrument Rating - Stage One</td>
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<td>Summer</td>
</tr>
<tr>
<td>FT 223 Commercial Pilot - Stage Three</td>
<td>2</td>
<td>Summer</td>
</tr>
<tr>
<td>FT 123 UAS Commercial Test Prep (additional elective)</td>
<td>3</td>
<td>Summer</td>
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</table>

Second Year  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>FT 202 Instrument Rating - Stage Two</td>
<td>5</td>
<td>Fall</td>
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<tr>
<td>FT 254 Aerodynamics</td>
<td>3</td>
<td>Fall</td>
</tr>
<tr>
<td>FT 256 Flight Instructor-Airplane and Instrument</td>
<td>3</td>
<td>Fall</td>
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<tr>
<td>Flight Instructor-Airplane Ground School</td>
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<td>Fall</td>
</tr>
<tr>
<td>PE/Health requirement</td>
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<td>Fall</td>
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<tr>
<td>BA 254 General Aviation Management</td>
<td>3</td>
<td>Spring</td>
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<tr>
<td>FT 228 Multiengine Ground School</td>
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<td>Spring</td>
</tr>
<tr>
<td>FT 203 Instrument Rating - Stage Three</td>
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<td>Spring</td>
</tr>
<tr>
<td>FT 255 Fundamentals of Instruction and Human Factors</td>
<td>3</td>
<td>Spring</td>
</tr>
</tbody>
</table>
**Geographic Information Science**

This program has been reinstated as a less-than-one-year certificate. Students should contact Counseling and Advising at 541.463.3200 for more information about this program.

**Graphic Design**

Offered by the Arts Division, 541.463.5409

Associate of Applied Science Degree

Program Coordinator: Contact Arts Division, Bldg. 11, Room 101

Purpose: To prepare graduates for entry-level positions in the fields of graphic and digital design.

Learning Outcomes: The student who successfully completes all Graphic Design requirements 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.

Admission Information: Open admission for first year. Limited admission for second year. See lanecc.edu/mediaarts/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. 106, 541.463.3179, hughest@lanecc.edu

Job Openings Projected through 2020

Lane County openings - 11 annually
Statewide openings - 1328 annually

Wages
Lane County average hourly - $21.56; average annual - $44,834
Oregon average hourly - $24.27 average annual - $50,481

Costs

<table>
<thead>
<tr>
<th>Instruments/Tools</th>
<th>$1,500</th>
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</thead>
<tbody>
<tr>
<td>Resident Tuition and General Student Fees</td>
<td>$9,006</td>
</tr>
</tbody>
</table>

Total Estimated Cost $10,506

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

**Course Requirements**

- Foundational Skills and Discipline Studies courses can be taken P/NP or for a letter grade of C- or higher: WR 121, WR 121_H, MTH 60, CG 203, Science, and Health/PE.
- All major courses must be taken for a letter grade, not P/NP.
- Major courses that serve as a prerequisite in a sequence must be passed with a B- or higher: ART 131, ART 115, ART 115_H, MUL 105, ART 216, ART 119, ART 225, ART 116, MUL 212, ART 221, ART 222, ART 227, ART 228, and ART 289. All remaining major courses must be passed with a C- or higher.

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>ART 115GD Basic Design: Fundamentals for Graphic Designers (4 credits) or</td>
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<tr>
<td>ART 115 Basic Design: Fundamentals (3 credits) and</td>
</tr>
<tr>
<td>GD 110 Introduction to Graphic Design (1 credit)</td>
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<tr>
<td>4</td>
</tr>
<tr>
<td>ART 131 Introduction to Drawing</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>ART 216 Digital Design Tools</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>MUL 105 Digital Photography</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

**Winter**

| ART 119Typography I |
| 3 |
| ART 231 Drawing: Intermediate |
| 3 |
| ART 225 Digital Illustration |
| 4 |
| Science, Math, Computer Science Requirement |
| 4 |

**Spring**

| CG 203 Human Relations at Work |
| 3 |
| Choice of: |
| WR 121 Academic Composition or |
| WR 121_H Academic Composition: Honors |
| 4 |
| ART 116 Basic Design: Color |
| 3 |
| MUL 218 Business Practices for Media Arts |
| 3 |
| MUL 212 Digital Imaging |
| 4 |

**Second Year**

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>Any Art Class</td>
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<tr>
<td>Any Multimedia Class</td>
</tr>
<tr>
<td>MTH 60 Beginning Algebra or higher</td>
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<tr>
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<tr>
<td>MUL 220 Intermediate Typography</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>ART 221 Graphic Design 1</td>
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<tr>
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<tr>
<td>ART 227 Graphic Design Production 1</td>
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<table>
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<tr>
<th>Winter</th>
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<tbody>
<tr>
<td>ART 222 Graphic Design 2</td>
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<td>4</td>
</tr>
<tr>
<td>ART 228 Graphic Design Production 2</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>ART 280GD Co-op Ed: Graphic Design</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>ART 289 Web Production</td>
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<tr>
<td>3</td>
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<tr>
<td>Choice of:</td>
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<tr>
<td>Physical Education Requirement or</td>
</tr>
<tr>
<td>Health Requirement</td>
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<tbody>
<tr>
<td>MUL 205 Design Studio</td>
</tr>
<tr>
<td>3</td>
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<tr>
<td>ART 223 Graphic Design 3</td>
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<tr>
<td>4</td>
</tr>
<tr>
<td>ART 229 Graphic Design Production 3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>ART 280GD Co-op Ed: Graphic Design</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>ART 290 Design Concepts for the Web</td>
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<td>3</td>
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</table>

**Directed Electives**

Any Art Class
Any Multimedia Class

**Health Information Management**

Offered by the Health Professions Division, 541.463.5617

Associate of Applied Science Degree

One-Year Certificate of Completion - Health Information Management

Career Pathway Certificate - Basic Health Care

Career Pathway Certificate - Medical Coding

Program Coordinator: Shelley K. Williams, BA, RN, RHIT
Purpose
This program prepares individuals to work in the field of health information management (HIM). HIM is a diverse yet evolving field that incorporates medicine, management, finance, information technology and law into one dynamic career path. Graduates will be prepared to manage paper and electronic medical records, collect, aggregate, analyze, summarize and disseminate individual and aggregate clinical data. HIM professionals also protect and control the security and quality of records as well as supervise data entry and technical maintenance personnel. The HIM program includes instruction in: clinical and biomedicine data and information requirements; database management; data coding and validation; information security; quality control; health information content and structure; medical business procedures; legal requirements, as well as HIM professional standards.

Learning Outcomes
Upon completion of this degree, the student will:
- apply critical and creative thinking, problem solving, and effective inter-professional communication skills related to health information management.
- apply principles of healthcare privacy, confidentiality, legal, ethical issues and data security.
- apply quantitative and qualitative methodologies to process healthcare information.
- demonstrate knowledge of dynamic healthcare delivery systems and regulatory environments.
- demonstrate knowledge of healthcare billing, coding and reimbursement policies.
- demonstrate knowledge of healthcare terminology and medical conditions.
- evaluate, use, and integrate information technology to support medical decision making and processes.
- demonstrate the application of information technology in the HIM environment.
- demonstrate the principles of leadership and management in the HIM environment.

Admission Information
Students are admitted three times per year (fall, winter, spring). Admission is restricted and is based on a program application. Please consult classes.lanecc.edu/course/view.php?id=31269&section=1

Advising and Counseling
Advising and counseling is available in Building 1, Room 103. E-mail HIMprogram@lanecc.edu

Cooperative Education (Co-op)
Coop is required for HIM Program students. Students must complete 3 credits hours (minimum experience) cooperative education during the second of their two year program. Through cooperative education students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Enrollment in Cooperative Education require admission into the HIM Program and instructor approval. Contact the HIM Coop Ed Coordinator for additional information. Shelley Williams, Bldg 30, Room 209. Telephone 541.463.5182.

Job Openings Projected through 2020
Lane County: 12
Statewide: 142

Wages
Lane County: hourly average: $17.73, annual average $39,661
Statewide: hourly average $19.47, annual average $41,070

Costs
Estimated based on 2015-16 Oregon resident tuition and fees. Consult Lane's website for updated tuition and fees for prerequisite and program courses. Prerequisite costs will vary for transfer students.
- Books .......................................................... $1,600
- Differential Fees* ............................................. $1,233

Certification, Licensure, Exams, Physicals .................. $500
Computers/Internet Service .................................... $1,100
Resident Tuition and General Student Fees ................. $10,792
Total Estimated Cost $15,225

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- All BT, CIS, CS, HQ, HIM, H1T, MTH, COMM, 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.
- Completion of BI 231, 232, and 233 with a “C” or higher is an acceptable equivalent for HO 150 and HO 152.
- Prerequisites are required for some courses. See course descriptions.
- HO150 and HO152 or their equivalents must be completed within the last five years (of application date)
- Computer science course or its equivalent (CS 120) must be completed within the last five years (of application date)
- All Coding and Billing courses or their equivalents (HO114, HO112, HIT222, HIM 270, etc.) must be completed within the last five years (of application date)

Prerequisites
- HO 100 Medical Terminology 1
- HO 110 Health Office Procedures
- HO 150 Human Body Systems 1
- HO 152 Human Body Systems 2
- MTH052 Math for Physical Science, or higher, or Credit by Exam for MTH060 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).
- Choice of:
  - CS 120 Concepts of Computing: Information Processing
  - CIS101 Computer Fundamentals
  - BT120 MS Word for Business

WR 121 Intro to Academic Composition, or WR 121_H

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 101 Introduction to Health Care and Public Health in the US</td>
<td>4</td>
<td>Fall</td>
</tr>
<tr>
<td>HIM 112 Medical Insurance Procedures</td>
<td>3</td>
<td>Fall</td>
</tr>
<tr>
<td>HIM 154 Introduction to Disease Processes</td>
<td>3</td>
<td>Fall</td>
</tr>
<tr>
<td>HIT 105 EHR for the Provider Office</td>
<td>3</td>
<td>Fall</td>
</tr>
<tr>
<td>HIM 120 Introduction to Health Information Management</td>
<td>3</td>
<td>Winter</td>
</tr>
<tr>
<td>HIM 220 Legal and Ethical Aspects of Healthcare</td>
<td>3</td>
<td>Winter</td>
</tr>
<tr>
<td>HIM 222 Reimbursement Methodologies</td>
<td>3</td>
<td>Winter</td>
</tr>
<tr>
<td>HIT 107 Integrated Electronic Health Records</td>
<td>4</td>
<td>Winter</td>
</tr>
<tr>
<td>HIT 160 Practice Management</td>
<td>3</td>
<td>Winter</td>
</tr>
<tr>
<td>HIM 114 Introduction to Medical Coding or equivalent (see Program Coordinator)</td>
<td>3</td>
<td>Spring</td>
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<tr>
<td>WR122 Argument, Research and Multimodal Composition or WR 122_H Argument, Research and Multimodal or higher</td>
<td>4</td>
<td>Spring</td>
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<tr>
<td>Social Science: Students choice</td>
<td>3-4</td>
<td>Spring</td>
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<tr>
<td>HIT 111 Implement and Customize Electronic Health Records</td>
<td>4</td>
<td>Spring</td>
</tr>
<tr>
<td>HIM 183 Introduction to Health Information Systems</td>
<td>4</td>
<td>Spring</td>
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</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>HIM 241 Health Information Management Applications 1</td>
<td>4</td>
<td>Fall</td>
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<tr>
<td>HIM 200 Healthcare Statistics</td>
<td>3</td>
<td>Fall</td>
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<tr>
<td>CIS 125D Software Tools 1: Databases</td>
<td>4</td>
<td>Fall</td>
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<tr>
<td>HIM 270 ICD Coding</td>
<td>4</td>
<td>Fall</td>
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<tr>
<td>COOP 206 Co-op Ed: Internship Seminar</td>
<td>2</td>
<td>Winter</td>
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<tr>
<td>HIM 271 ICD-10 Coding 2</td>
<td>4</td>
<td>Winter</td>
</tr>
</tbody>
</table>
Basic Health Care

Offered by the Health Professions Division, 541.463.5617

Career Pathway Certificate

Program Coordinator Shelley K. Williams, BA, RN, RHIT, 541.463.5182, williamSSK@lanecc.edu

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 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:
• understand the requirements to work as a professional in a health care environment.
• demonstrate basic computer skills.
• apply the principles and privacy and security based on laws and professional ethics required in health care practices.
• demonstrate ability to use medical terminology appropriately, including abbreviations, acronyms, spelling, and pronunciation.
• demonstrate knowledge of the basics of human anatomy and physiology.
• demonstrate professional written and verbal communications in a responsible and confidential manner.
• demonstrate intellectually informed, appreciative, and understanding of various cultures, histories, as marked by class, race, gender, ethnicity, religion, nationality, sexual orientation, and other manifestations of difference.

Admission Information
There is no application requirement for this certificate.

Advising and Counseling
For assistance with requirements, please go to Counseling and Advising in building 1, room 103 or e-mail HIMProgram@lanecc.edu

Course Requirements
• Prerequisites may be required for some courses. See course descriptions.
• Completion of BI 231, 232, and 233 with a ‘C’ or better is an acceptable equivalent for HO 150 and HO152.
• 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.

Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MTH 52</td>
<td>Math for Health and Physical Sciences</td>
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<tr>
<td>HO 100</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HO 110</td>
<td>Health Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HO 150</td>
<td>Human Body Systems 1</td>
<td>3</td>
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Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>HIM 230</td>
<td>Quality Improvement in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HIM 242</td>
<td>Health Information Management Applications</td>
<td>4</td>
</tr>
<tr>
<td>HIM 273</td>
<td>CPT Coding 1</td>
<td>4</td>
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Choice of:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT120</td>
<td>MS WORD for Business</td>
<td>4</td>
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<tr>
<td>CIS101</td>
<td>Computer Fundamentals</td>
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</tr>
<tr>
<td>CS120</td>
<td>Concepts of Computing: Information Processing</td>
<td>4</td>
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Choice of:

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121</td>
<td>or WR 121_H or higher</td>
<td>4</td>
</tr>
<tr>
<td>HO 152</td>
<td>Human Body System 2</td>
<td>3</td>
</tr>
</tbody>
</table>

Health Information Management

Offered by the Health Professions Division, 541.463.5617

One-Year Certificate of Completion

Program Coordinator Shelley K. Williams, BA, RN, RHIT, 541.463.5182, williamSSK@lanecc.edu

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
Upon completion of this certificate, the student will:
• demonstrate ability to organize, input, process, analyze, secure, and distribute healthcare information.
• demonstrate the organization, analysis, and evaluation of health record content for completeness and accuracy.
• demonstrate knowledge of abstracting health records and assigning standardized codes to diagnoses and procedures to accurately meet reporting needs and processing claims for insurance reimbursement.
• apply principles of healthcare privacy, confidentiality, legal, ethical issues and data security.
• demonstrate knowledge of healthcare terminology and medical conditions.
• demonstrate knowledge of healthcare delivery systems and regulatory environments.
• demonstrate knowledge of utilizing library and valid internet resources for research, projects, and to maintain a level of expertise in his or her field of study.
• apply critical and creative thinking, problem solving, and effective inter-professional communication skills related to health information management.

Admission Information
Consult classes.lanecc.edu/course/view.php?id=31269&section=1

Advising and Counseling
See the Counseling and Advising Center, or e-mail HIMProgram@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. Only students who have received their official program acceptance letter may take HIM Co-op. Contact the HIM Cooperative Coordinator, Shelley Williams, Bldg. 30, 541.463.5182.

Job Openings Projected through 2020
Lane County: 14; Statewide: 136

Wages
Lane County hourly average - $17.73; annual average - $39,661
Oregon hourly average - $19.47; annual average - $41,070

Costs
(Estimates based on 2014-15 data for full-time students. Students attending part-time will incur additional term fees.)
Consult Lane’s website for updated tuition and fees. The total of all the differential fees attached to Health Records Technology courses and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Books................................................. $1,775
Differential Fees* ........................................ $549
Resident Tuition and General Student Fees.. $5,396

Total Estimated Cost $7,720

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Gainful Employment Disclosure
29-2071.00

In academic year 2014-15, 7 students completed this certificate.

The program is designed to take 4 terms, or about 15 months of study to complete.

Lane Community College is committed to protecting student privacy and does not publish this rate for fewer than 10 graduates.

For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.

Explanation of costs: lanecc.edu/esfs/credit-fees-and-expenses

Course Requirements
- Prerequisites are required for some courses. See course descriptions.
- Completion of BI 231, 232, and 233 with a ‘C’ or better is an acceptable equivalent for HO 150 and HO152.
- 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.
- Computer Science course (CS120 or CIS101) must be completed within last five years.
- All BT, CIS, CS, HO, HIM, HIT, MTH, COMM, 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 ‘Credit’.
- Coding and Billing courses (HO112, HIT222, HO114) must be completed within last five years.
- Computer Science course (CS120 or CIS101) must be completed within last five years.

Prerequisites
HO110 Health Office Procedures
HO 150 Human Body Systems 1
HO 152 Human Body Systems 2
HO100 Medical Terminology 1
Choice of: CS 120 Concepts of Computing: Information Processing -CIS101 Computer Fundamentals -BT120 MS Word for Business - MTH052 Math for Physical Science, or higher, or Credit by Exam for MTH060 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)
WR 121 Introduction to Academic Composition, or WR 121_H

Fall
HIM 154 Introduction to Disease Processes .................. 3
HIM 112 Medical Insurance Procedures .................... 3
HIT 105 EHR for the Provider Office ......................... 3
HIM 120 Introduction to Health Information Management 3
HIM 101 Introduction to Health Care and Public Health in the US................................. 4

Winter
COOP 206 Co-op Ed: Internship Seminar .................. 2
HIT 107 Integrated Electronic Health Records ............. 4
HIM 222 Reimbursement Methodologies.................. 3
HIM 114 Introduction to Medical Coding .................. 3
HIM 220 Legal and Ethical Aspects of Healthcare ........ 3
HIT 160 Practice Management................................. 3

Spring
Human Relations (3-4 credits):
- Students Choice........................................ 3-4
HIM280 Co-op Ed: Health Information Management 12 Credit(s) Max...................................... 3
HIT 111 Implement and Customize Electronic Health Records................................................. 4
HIM 183 Introduction to Health Information Systems.... 4

Medical Coding
Offered by the Health Professions Division, 541.463.5617

Career Pathway Certificate
Program Coordinator Shelley K. Williams, RN, RHIT, 541.463.5182, williamSSK@lanecc.edu

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 student who successfully completes all Medical Coding requirements will:
- 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.
- Demonstrate knowledge of abstracting health records and assigning standardized codes to diagnoses and procedures to accurately meet reporting needs and processing claims for insurance reimbursement.
- Apply principles of healthcare privacy, confidentiality, legal, ethical issues, and data security.
- Demonstrate the organization, analysis, and evaluation of health record content for completeness and accuracy.
- Appreciate diversity, differing beliefs, value systems, and individual opinions.
- Demonstrate knowledge and adherence to HIPAA regulations.
- Effectively engage in written and oral communication between patients and other health professionals.

Admission Information Application and admission into the Health Records Technology Program is required. Admission and Application information is found on the web at: classes.lanecc.edu/course/view.php?id=31269&section=1

Advising and Counseling For assistance in meeting program or application requirements, please go to Counseling and Advising in building 1, room 103 or e-mail HIMProgram@lanecc.edu
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.

Job Openings Projected through 2020
Lane County: 12
Oregon: 142

Wages
Lane County hourly average - $17.73; annual average - $39,661
Oregon hourly average - $19.47; annual average - $41,070

Course Requirements
- Prerequisites are required for some courses. See course descriptions.
- All BT, CIS, HO, HIM, HIT, MTH, COMM, 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 g
- Completion of BI 231, 232, and 233 with a “C” or better is an acceptable equivalent for HO 150 and HO152.
- All billing courses (HIM112, HIM222) must be completed within five years of program completion.

Prerequisites
Choice of: -CS 120 Concepts of Computing: Information -Processing -CIS101 Computer Fundamentals -BT120 MS Word for Business WR115 Intro to College Writing
HO110 Health Office Procedures
HO100 Medical Terminology 1
HO 150 Human Body Systems 1
HO 152 Human Body Systems 2
MTH052 Math for Physical Science, or higher, or Credit by Exam for MTH060 or higher, or, or any Calculus, or Calculus, or Statistics, or IB (Mathematics, or Math Studies, or Further Mathematics, or Statistics)

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.

Hotel/Restaurant/Tourism Management
Offered by the Culinary Arts and Hotel/Restaurant/Tourism Management, 541.463.3518
Associate of Applied Science Degree
Career Pathway Certificate - Meeting, Convention, and Special Events Manager
Program Coordinator Wendy Milbrat, Project Specialist, 541.463.3518, milbratw@lanecc.edu; or email: CulinaryHospPrograms@lanecc.edu

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.

Learning Outcomes
The student who successfully completes all Hotel/Restaurant/Tourism Management requirements will:
- describe types and standards of service.
- display an understanding of hospitality terminology.
- define and categorize hotel/restaurant organization and segmentation.
- identify various career paths within the hospitality industry.
- demonstrate effective communication skills.
- demonstrate the ability to handle guest complaints.
- understand how hospitality organizations provide guest information and concierge services.
- explain fee and pricing categories.
- describe the functions of the marketing department.
- describe the hotel and amenities as products.
- describe the elements of a marketing plan.
- target the market audience.
- describe the concept of supply and demand.
- demonstrate knowledge of safety regulations required in the hospitality industry, including OSHA regulations.
- demonstrate appropriate personal hygiene.
- maintain guest and employee security procedures.
- describe and process financial transactions.
- describe night audit procedures.
- describe and operate POS systems.
- describe room service procedures.
- describe the rights of management, staff and guests.
- describe hospitality industry related legal responsibilities and issues, including ADA.
- describe the positions and responsibilities of restaurant employees.
- plan, prepare, and cost menus.
- understand concepts related to purchasing, receiving, and storing of product.
- select, identify, and describe the correct restaurant equipment for various applications.
- explain procedures for health, safety, and sanitation.
- identify the basic elements of restaurant layout and design.
- calculate payroll and employee schedules.
- provide an overview of the global environmental field as it stands today.
- understand concepts associated with the environmental, social, and cultural impacts of tourism and the hospitality industry.
- have a clear understanding of environmental law, voluntary initiatives and principles, for sustainable development in the tourism and hospitality industry.
- understand the triple bottom-line concept as it relate to the hospitality industry.

Accreditation
Hospitality Management, 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).

Admission Information
A separate application to the program is required. Admission information is available from the Culinary Arts and Hotel/Restaurant/Tourism Management office, Building
19, Room 204 or online at lanecc.edu/hospitality. Or email: CulinaryHospPrograms@lanecc.edu

Advising and Counseling Program Advisors Claudia Riumallo and Tricia Lytton Program Counselor Carolyn Litty

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, mccullyj@lanecc.edu

Job Openings Projected through 2020

Hotel Front Desk
Lane County openings - 17 annually
Statewide openings - 191 annually

Hotel Managers
Lane County openings - 1 annually
Statewide openings - 15 annually

Meeting and Convention Planners
Lane County openings - 3 annually
Statewide openings - 37 annually

Wages
Hotel Front Desk
Lane County average hourly - $10.61; average annual - $22,068
Oregon average hourly - $11.02; average annual - $22,916

Hotel Managers
Lane County average hourly - $NA ; average annual - $NA
Oregon average hourly - $ 28.36 ; average annual - $ 58,987

Meeting and Convention Planners
Lane County average hourly - $19.31 ; average annual - $ 40,157
Oregon average hourly - $36.37 ; average annual - $ 75,827

Costs
Books.............................................................. $980
Program Specific Fees.............................................. $700
Resident Tuition and General Student Fees...................... $10,336
Total Estimated Cost $12,016

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- 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.
- 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.
- Students may take Cooperative Education in any term approved by the coordinator.
- Cooperative Education can be substituted for one term of HRTM 225 Banquet Operations.
- 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.
- It is strongly recommended that students take MTH025 Basic Mathematics Applications: Culinary Majors but not required. Students may take any MTH 025 or higher class.
- MS PowerPoint and Excel are used extensively. If students are not familiar with these software programs, they are encouraged to take these classes prior to or during their first year in the program.
- General Education Requirements may be completed prior to program entry or any program term. For complete details refer to the college catalog or meet with your academic advisor.

must be a credit-level student. Students are strongly advised to enter fall term. Complete college placement tests with the following minimum scores: writing-70, reading-68 and readiness’ for MTH 025 “taking the Arithmetic section of the Accuplacer test and scoring 75 or higher 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.

The Dual Degree Option for Culinary Arts Graduates, seeking the 2yr. AAS in Hospitality Management, can not be reversed. This option can only be obtained by first completing the 2yr. AAS in Culinary Arts. MS Powerpoint and Excel are used extensively. If students are not familiar with these software programs they are encouraged to take these classes prior to or during their first year in the program.

First Year

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td>HRTM 105 Restaurant Operations</td>
<td>3</td>
<td>3</td>
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<tr>
<td>HRTM 106 Introduction to Hospitality Management</td>
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<td>HRTM 225 Banquet Operations</td>
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<tr>
<td>MTH 025 Basic Mathematics</td>
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<td>General Education Requirement</td>
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Second Year

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>HRTM 231 Hotel Operations 2</td>
<td>3</td>
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<tr>
<td>HRTM 275 Hospitality Financials 2</td>
<td>3</td>
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<tr>
<td>HRTM 292 Dining Room and Kitchen Lab</td>
<td>2</td>
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<tr>
<td>HRTM 109 Principals of Meeting and Convention Management</td>
<td>3</td>
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<tr>
<td>General Education Requirement</td>
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</table>

Third Year

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 220 Sustainability in the Hospitality Industry</td>
<td>2</td>
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<tr>
<td>HRTM 286 Bar and Beverage Management</td>
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<tr>
<td>HRTM 290 Hospitality Leadership</td>
<td>3</td>
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<tr>
<td>HRTM 282 Dining Room and Kitchen Lab</td>
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<tr>
<td>HRTM 209 Advanced Principals of Meeting and Convention Management</td>
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<tr>
<td>General Education Requirement</td>
<td>3</td>
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</tbody>
</table>
Meeting, Convention, and Special Events Manager

Offered by the Culinary Arts and Hospitality Management, 
541.463.3518

Career Pathway Certificate

Program Coordinator Wendy Milbrat, Project Specialist, 
541.463.3518, milbratw@lanecc.edu; or email: CulinaryHospPrograms@lanecc.edu

Purpose: 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 student who successfully completes all Meeting, Convention, and Special Events Manager requirements will:

- describe types and standards of service.
- describe the function of human resources in the hospitality industry.
- display an understanding of hospitality terminology.
- define and categorize hotel/restaurant organization and segmentation.
- identify various career paths within the hospitality industry.
- demonstrate effective communication skills.
- demonstrate the ability to handle guest complaints.
- understand how hospitality organizations provide guest information and concierge services.
- explain fee and pricing categories.
- describe the functions of the marketing department.
- describe the hotel and amenities as products.
- describe the elements of a marketing plan.
- target the market audience.
- describe the concept of supply and demand.
- demonstrate knowledge of safety regulations required in the hospitality industry, including OSHA regulations.
- demonstrate appropriate personal hygiene.
- maintain guest and employee security procedures.
- describe night audit procedures.
- describe and process financial transactions.
- describe and operate POS systems.
- describe room service procedures.
- describe the rights of management, staff and guests.
- describe hospitality industry related legal responsibilities and issues, including ADA.
- describe the positions and responsibilities of restaurant employees.
- plan, prepare, and cost menus.
- understand concepts related to purchasing, receiving, and storing of product.
- select, identify, and describe the correct restaurant equipment for various applications.
- explain procedures for health, safety, and sanitation.
- identify the basic elements of restaurant layout and design.
- calculate payroll and employee schedules.
- provide an overview of the global environmental field as it stands today.
- understand concepts associated with the environmental, social, and cultural impacts of tourism and the hospitality industry.
- have a clear understanding of environmental law, voluntary initiatives and principles, for sustainable development in the tourism and hospitality industry.
- understand the triple bottom-line concept as it relates to the hospitality industry.

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 204 or online at lanecc.edu/culinary. Or email: CulinaryHospPrograms@lanecc.edu

Costs

| Books | $600 |
| Program Specific Fees | $420 |
| Resident Tuition and General Student Fees | $3,890 |

Total Estimated Cost: $4,910

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements:

- Students that are completing both the Hospitality Management AAS degree and the Meeting, Convention, and Special Event Management certificate need to complete a total of 8 co-op credits.

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Spring</th>
<th>Fall</th>
<th>Winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRTM 109 Principles of Meetings and Convention Management</td>
<td>3</td>
<td>2</td>
<td>2</td>
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<tr>
<td>HRTM 225 Banquet Operations</td>
<td>2</td>
<td>3</td>
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<tr>
<td>HRTM 230 Hotel Operations 1</td>
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<tr>
<td>HRTM 106 Introduction to Hospitality Management</td>
<td>2</td>
<td>3</td>
<td></td>
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<tr>
<td>HRTM 110 Hospitality Sales and Marketing</td>
<td></td>
<td>3</td>
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<tr>
<td>HRTM 225 Banquet Operations</td>
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<tr>
<td>HRTM 231 Hotel Operations 2</td>
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<tr>
<td>HRTM 280 Co-op Ed: Hospitality Management</td>
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<tr>
<td>HRTM 209 Advanced Principles of Meeting, Convention, and Special Event Management</td>
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<tr>
<td>HRTM 225 Banquet Operations</td>
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<tr>
<td>HRTM 280 Co-op Ed: Hospitality Management</td>
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<tr>
<td>HRTM 260 Hospitality Human Resources and Supervision</td>
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</table>

Human Services

Offered by the Social Science Department, 541.463.5427

Associate of Applied Science Degree

Career Pathway Certificate - Community Health Worker

Program Coordinator Christina Salter salterc@lanecc.edu

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; assisting individuals in meeting their health related needs; 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 nonprofit agencies. Most human services careers require a criminal background check.
Learning Outcomes: The student who successfully completes all Human Services requirements will:

- assess an individual or a family’s needs.
- be able to communicate effectively with others.
- develop a plan of action using client’s strengths, and link people with community resources.
- develop the competency required to work with people from diverse backgrounds.
- formulate questions that can be addressed with data and collect, organize and display relevant data to answer them.
- use appropriate library and information resources to research professional issues and support lifelong learning.
- understand and apply evidence-based practices.

Advising and Counseling: Andi Graham is the Academic Advisor and Susan Shipp is the Academic Counselor. Contact them at socsci@lanecc.edu

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 Christina Salter at 541.463.5813 or salterc@lanecc.edu

Job Openings Projected through 2020

Social and Human Service Assistants:

Statewide employment analysis for social and human service assistants indicates that this occupation in 2014 was much larger than the regional average for all occupations. The total number of job openings was projected to be much higher than the regional average number of job openings for all occupations through 2024. This occupation is expected to grow at the average regional growth rate for all occupations through 2024. Reasonable employment opportunities exist largely due to the significant number of job openings projected for this occupation.

Substance Abuse and Behavioral Disorder Counselors:

Statewide employment analysis for substance abuse and behavioral disorder counselors indicates that employment in this occupation in 2014 was at the regional average for all occupations. The total number of job openings was projected to be at the regional average number of job openings for all occupations through 2024. This occupation is expected to grow at a somewhat faster rate than the regional average growth rate for all occupations through 2024. Reasonable employment opportunities exist largely due to the significant number of job openings projected for this occupation.

Wages

Social and Human Service Assistants:

Lane County average hourly - $16.00; average annual - $33,269
Oregon average hourly - $15.34; average annual - $33,989

Substance Abuse and Behavioral Disorder Counselors:

Lane County average hourly - $17.84; average annual $37,116
Oregon average hourly - $22.48; average annual - $46,764

Costs:

Books .......................................................... $3,200
Program Specific Fees ..................................... $200
Resident Tuition and General Student Fees .............. $9,255

Total Estimated Cost: $12,655

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements:

- All required HS courses must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
- A total of 18 credits of CG 280HS Cooperative Education: Human Services must be taken for a letter grade, not P/NP, and must be passed with a “C-” or better to fulfill program requirements.
- HS 155 Interviewing Theory and Techniques must be completed prior to enrollment in HS 231, 232, 265, and 266.
- For choices in Science, Math, and Computer Science, see AAOT degree description.
- Courses with WR, COMM, ANTH, PSY prefixes and all Science/Math, Computer Science courses are transferable and may be applicable to an AAOT degree. Up to twelve credits of HS prefix courses and 18 credits of CG 280 HS may be used toward AAOT electives.

First Year

Fall

HS 150 Personal Effectiveness for Human Service Workers ............................................. 3
HS 201 Introduction to Human Services ................................................................. 3
HS 226 Ethics and Law ................................................................. 3
Directed Elective 3-6 credits ................................................................................. 3-6
Choice of:
WR121 Intro to Academic Composition ......................................................... 4
WR121, H Intro to Academic Composition ......................................................... 4

Winter

HS 155 Interviewing Theory and Techniques ..................................................... 3
MTH 025 Basic Mathematics Applications or higher ........................................ 3
CG 280HS Co-op Ed: Human Services .............................................................. 3
Choice of:
COMM100 Basic Communication .....................................................................
COMM111 Fundamentals of Public Speaking ....................................................
COMM112 Persuasive Speech ............................................................................
COMM130 Business and Professional Speech ...................................................
COMM218 Interpersonal Communication ..........................................................
Choice of:
WR122 Composition: Style and Argument ...................................................... 4
WR122, H Composition: Style and Argument .................................................... 4

Spring

ANTH 103 Cultural Anthropology ......................................................................... 4
CG 280HS Co-op Ed: Human Services .............................................................. 3
HS 231 Advanced Interviewing and Counseling ............................................ 3
HS 265 Casework Interviewing ......................................................................... 3
Directed Elective .................................................................................................. 3-4

Second Year

Fall

CG 280HS Co-op Ed: Human Services .............................................................. 3
HS 102 Psychopharmacology ............................................................................. 4
HS 266 Case Management ................................................................................. 3
Directed Elective .................................................................................................. 3-4
PSY 201 General Psychology ............................................................................ 4

Winter

HS 267 Cultural Competence in Human Services ............................................ 3
Directed Elective .................................................................................................. 2-4
PSY 202 General Psychology ............................................................................ 4
CG 280HS Co-op Ed: Human Services .............................................................. 4
Science/Math/Computer Science requirement .................................................. 3

Spring

CG 280HS Co-op Ed: Human Services .............................................................. 4
Choice of:
HE209 Human Sexuality ....................................................................................
HE250 Personal Health ....................................................................................... 3
HS252 First Aid ....................................................................................................
HS265 Global Health and Sustainability ............................................................
HS275 Lifetime Health and Fitness .................................................................... 3-4
HS 224 Group Counseling Skills ......................................................................... 3
HS 232 Cognitive-Behavioral Strategies ............................................................. 3
PSY 203 General Psychology ............................................................................. 4

Directed Electives:

Behavioral Health:

HS 158 Trauma: Theory to Practice ................................................................. 2
HS 209 Crisis Intervention and Prevention ...................................................... 3
HS 220 Prevention 1: Preventing Substance Abuse and...
CAREER TECHNICAL

Human Services - Industrial Mechanics and Maintenance Technology Apprenticeship

Other Social Problems................................................................. 3
HS 221 Co-occurring Disorders .................................................. 3
HS 222 Best Practices in Human Services: Interventions ................................................................. 4

Criminal Justice and Treatment
HS 158 Trauma: Theory to Practice .............................................. 2
HS 205 Youth Substance Abuse ................................................... 3
HS 206 The Criminal Addict: Issues and Interventions ............ 3
HS 220 Prevention 1: Preventing Substance Abuse and Other Social Problems.................................................. 3
HS 222 Best Practices in Human Services: Interventions ................................................................. 4
CJA 201 Juvenile Delinquency ....................................................... 3
CJA 232 Correctional Casework .................................................. 3

Community Health Worker
HS 171 Community Health Worker............................................. 6
HS 221 Co-occurring Disorders .................................................. 3
HS 158 Trauma: Theory to Practice .............................................. 2
HE 255 Global Health and Sustainability...................................... 4

Addictions Counseling
HS 228 HIV/AIDS and other Infectious Diseases: Risk Assessment and Intervention ........................................ 2
HS 221 Co-occurring Disorders .................................................. 3
HS 151 Issues in Assessing and Treating the Problem Grambler ................................................................. 1
HS 158 Trauma: Theory to Practice .............................................. 2
HS 205 Youth Substance Abuse ................................................... 3
HS 209 Crisis Intervention and Prevention................................. 3
HS 220 Prevention 1: Preventing Substance Abuse and Other Social Problems.................................................. 3
HS 222 Best Practices in Human Services: Interventions ................................................................. 4

Youth and Family
HS 158 Trauma: Theory to Practice .............................................. 2
HS 205 Youth Substance Abuse ................................................... 3
HS 209 Crisis Intervention and Prevention................................. 3
HS 220 Prevention 1: Preventing Substance Abuse and Other Social Problems.................................................. 3
HS 222 Best Practices in Human Services: Interventions ................................................................. 4
HS 229 Grief and Loss Across Life Span........................................ 3

Community Health Worker
Offered by the Social Science Division, 541.463.5427

Career Pathway Certificate
Program Coordinator Christina Salter salterc@lanec.edu

Purpose This program prepares students for an emerging role in the health care field. Community Health Workers have been identified as critical positions in helping individuals, and Communities, efficiently access care and community resources to improve health outcomes for the individual while controlling health care costs.

Learning Outcomes The student who successfully completes all Community Health Worker requirements will:
- list the social determinants of health.
- demonstrate case management and coordination skills.
- demonstrate outreach, advocacy, and system navigation skills.
- demonstrate relationship building and helping skills to assist individuals in accessing and effectively utilizing primary and behavioral health care settings.
- demonstrate sensitivity and cultural competence in serving members of diverse communities including clinical communities.
- describe health across the life span.
- develop ethical relationships with consumers, caregivers, professionals and community agencies.
- identify basic symptoms related to common chronic diseases including mental health problems and addictions and list ways to prevent and manage these diseases.
- list the principles of trauma-informed services.
- list the regulations and services offered by the various components of the health care system.

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 Co-op Education Office at 541.463.5203.

Job Openings Projected through 2020
Community Health Worker is an emerging occupation so employment data is limited to the past few years. Employment in this occupation in 2014 was somewhat smaller than the statewide average for all occupations. The total number of job openings is projected to be somewhat lower than the statewide average number of job openings for all occupations through 2024. This occupation is expected to grow at about the statewide average growth rate for all occupations through 2024. Reasonable, but limited, employment opportunities exist for trained workers.

Wages
Average hourly wage in Lane County is $14.91. Average hourly wage in Oregon is $22.23. Average annual salary for Community Health Workers is $31,016 in Lane County and $46,245 in Oregon.

Costs
Books ...................................................................................... $1,100
Program Specific Fees ................................................................ $300
Total Estimated Cost $1,400
*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- 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.
- See course descriptions for prerequisite and corequisite information.

CG 280 HS Co-op Ed: Human Services ...................................... 3
Choice of: .............................................................................. 3
HE 250 Personal Health
HE 275 Lifetime Health and Fitness
HE 255 Global Health and Sustainability...................................... 4
HS 150 Personal Effectiveness for Human Service Workers ................................................................. 3
HS 155 Interviewing Theory and Techniques ........................................ 3
HS 158 Trauma: Theory to Practice .............................................. 2
HS 171 Tradition Health Care Worker ....................................... 6
HS 221 Co-occurring Disorders .................................................. 3
HS 226 Ethics and Law .............................................................. 3
HS 266 Case Management .......................................................... 3
HS 267 Cultural Competence in Human Services .................................... 3
CG 280 HS Co-op Ed: Human Services ...................................... 3

Industrial Mechanics and Maintenance Technology Apprenticeship
Offered by the Advanced Technology Division, 541.463.5380
Associate of Applied Science Degree
One-Year Certificate of Completion - Industrial Mechanics and Maintenance Technology Apprenticeship

Program Coordinator Joy Crump, Bldg. 15 Rm. 201, 541.463.5496, crumpj@lanec.edu.

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.

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.

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 all 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.

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.

Advising and Counseling lanecc.edu/advtech/counselor-and-advisor -drop-hours

Job Openings Projected through 2020
Lane County openings - 2 annually
Statewide openings - 39 annually

Wages
Lane County average hourly - $21.15; average annual - $43,989
Oregon average hourly - $25.36; average annual - $52,764

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 2016-17 tuition and fees. Consult Lane’s website for updated tuition.

Books ........................................................................................................................................................................... $1,500
Resident Tuition and General Student Fees ......................................................................................................................... $10,000

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• WR 115W and MTH 060 must be must be passed with a grade of Pass or ‘C’ or better to satisfy program requirements.
• General education course choices are listed on the Associate of Applied Science degree page.
• 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.

Pre-requisites Minimum placement scores “Reading 68, Writing 64, and readiness for Math 60. Note: See the counselor or advisor to obtain the suggested entry-level skills for successful completion of these programs.

Admission Students must be registered apprentices with the State of Oregon Bureau of Labor and Industries and accepted by a Joint Apprenticeship Training Committee. 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).

Journeyman card from Oregon Bureau of Labor and Industries Apprenticeship and Training Division, ‘prior certification is worth 22 credits towards the AAS.

General Education
WR 115W Introduction to College Writing: Workplace Emphasis or higher .......................................................... 3
MTH 060 Beginning Algebra or higher ................................................. 4
PE/Health Requirement ................................................................ 3
Arts and Letters requirement ....................................................... 3
Human Relations requirement ..................................................... 3
Science/Math/Computer Science requirement ......................... 3
Choice of:
• Arts and Letters requirement
• Human Relations or Social Science requirement
• Science/Math/Computer Science requirement ......................... 3

Journeyman card from Oregon Bureau of Labor and Industries Apprenticeship and Training Division (22 credits)
State of Oregon Apprenticeship Training Journey-man card or BOLI-ATD Certificate of Completion ................................................................................................................................. 22

Millwright Core Related Training (43 credits)
APR 150 The Millwright and Shop Safety ....................................... 5
APR 151 Millwright Machine Theory and Trade Calculations .......................................................... 5
APR 152 Millwright: Power Transmissions and Boilers-Steam .......................................................... 5
APR 250 Millwright: Industrial Print Reading, Schematics, and Estimating ................................. 5
APR 251 Millwright: Pneumatics and Lubrications .............................. 5
APR 252 Hydraulics for Millwrights .................................................. 5
APR 253 Millwright Piping Systems .................................................. 5
MTH 085 Applied Geometry for Technicians .................................. 4
APR 185 Shielded Metal Arc-Welding 1 ............................................. 2
APR 186 Wire Drive Welding 1 ......................................................... 2

Program Electives to complete 90 credits for degree:
APR 190 Electrical Theory 1 ............................................................... 4
APR 101 Trade Skills Fundamentals ............................................... 4
CS 120 Concepts of Computing: Information
Processing ................................................................. 4
HE 252 First Aid ......................................................... 3
MTH 112 Trigonometry ................................................... 3
RTA 101 Introduction to Advanced Technology .............. 3
WLD 122 Shielded Metal Arc Welding 2 ....................... 3
WLD 138 Welding Lab ................................................... 3
WLD 140 Welder Qualification (Cert): Wire Drive Processes ......................................................... 3
WLD 141 Welder Qualification (Cert): SMAW .................. 3
WLD 142 Pipe Welding Lab: Carbon Steel ...................... 3
WLD 151 Fundamentals of Metallurgy ......................... 3
WLD 154 Wire Drive Welding 2 ................................. 3
CNC 101 CNC Concepts ............................................. 3
CNC 102 CNC Setup and Operation ............................. 3
DRF 160 Computer-Aided Drafting and Design ............. 4
CNC 103 CNC Programming ....................................... 3

Industrial Mechanics and Maintenance Technology Apprenticeship

Offered by the Advanced Technology Division, 541.463.5380

One-Year Certificate of Completion

Program Coordinator Joy Crump, Bldg. 15 Rm. 201,
541.463.5496, crumpj@lanecc.edu.

Purpose 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’ grade or better in all courses, and completing related instruction in communications, computation, and human relations.

Learning Outcomes Graduates will:
• perform the duties and responsibilities of the millwright trade.
• identify mechanical and/or electrical industrial systems.

Licensing and 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 pathway 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 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.

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.

Advising and Counseling lanecc.edu/advtech/counselor-and-advisor

Job Openings Projected through 2020
Lane County openings - 2 annually
Statewide openings - 39 annually

Wages
Lane County average hourly - $21.15; average annual - $43,989
Oregon average hourly - $25.36; average annual - $52,764

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 2016-17 tuition and fees. Consult Lane’s website for updated tuition.

Books ................................................................. $1,500
Resident Tuition and General Student Fees ....................... $10,000

Total Estimated Cost $11,500

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• WR 115W and MTH 060 must be passed with a grade of Pass or ‘C’ or better to satisfy program requirements.
• 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: Millwright.
• complete related instruction credits (communication, computation, human relations), 10 credits complete core-related training credits. 43 credits Total Credits 53
• 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.

Journeyman card from Oregon Bureau of Labor and Industries Apprenticeship and Training Division, prior certification

Costs

Related Instruction
WR 115W Introduction to College Writing: Workplace Emphasis or higher ................................................................. 3
Human Relations .................................................................. 3
MTH 060 Beginning Algebra or higher ................................. 4

Core-Related Training
APR 150 The Millwright and Shop Safety ...................................... 5
APR 151 Millwright Machine Theory and Trade Calculations ................................................................. 5
APR 152 Millwright: Power Transmissions and Boilers-Steam ................................................................. 5
APR 250 Millwright: Industrial Print Reading, Schematics, and Estimating ................................................................. 5
APR 251 Millwright: Pneumatics and Lubrications ................. 5
APR 252 Hydraulics for Millwrights .......................................... 5
APR 253 Millwright Piping Systems ........................................ 5
MTH 085 Applied Geometry for Technicians ..................... 4
APR 185 Shielded Metal Arc Welding 1 .............................. 2
APR 186 Wire Drive Welding 1 ............................................ 2

Manufacturing Technology

Offered by the Advanced Technology Division, 541.463.5380

Associate of Applied Science Degree

Associate of Applied Science Degree Option - Manufacturing Technology Computer Numerical Control Technician Option

Career Pathway Certificate - Manufacturing Technician 1

Career Pathway Certificate - Manufacturing Technician 2

Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, rea@lanecc.edu

Purpose The Two Year Associate of Applied Science Degree in
Manufacturing Technology provides fundamental training in Manufacturing (machine shop) and related work. A graduate qualifies for entry level positions as a Machinist or CNC Operator in manufacturing shops and related machine tool industries. Machining and CNC manufacturing jobs are some of the fastest growing career options in Oregon and Lane County. Employment opportunities include high tech machine shops, job shops, production machine shops, tool and die shops, machine repair and maintenance shops and other manufacturing industries.

**Learning Outcomes** Upon completing the training for this degree, the student will know how to operate safely in a manufacturing environment. They will be able to effectively use precision measuring tools, read prints and have mathematical skills to accomplish shop tasks. They will have experience using most shop machinery and basic knowledge in CNC including programming, setup and operation of CNC lathes and mills as well as basic knowledge in CAD, CAM and verification software used in CNC manufacturing environments.

- have proficiency in the setup 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 to accomplish shop tasks.
- use the internet to access information pertaining to shop techniques and tool use.

**Admission Information** See [lanec.edu/advtech/mfg](http://lanec.edu/advtech/mfg) or contact the Advanced Technology Division, [AdvTechPrograms@lanecc.edu](mailto:AdvTechPrograms@lanecc.edu)

**Advising and Counseling** [classes.lanec.edu/course/view.php?id=31255](http://classes.lanec.edu/course/view.php?id=31255)

**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 Chuck Fike, Manufacturing Technology Co-op Coordinator, Bldg 19, Rm. 281 or Bldg 12, Rm. 206. 541.463.5078, [fikec@lanecc.edu](mailto:fikec@lanecc.edu)

**Job Openings Projected through 2020**

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<tbody>
<tr>
<td>Statewide openings</td>
<td>- 161 annually</td>
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</table>

**Wages**

- Lane County average hourly - $20.54; average annual - $42,723
- Oregon average hourly - $23.33; average annual - $48,527

**Costs**

Estimates based on 2016-2017 data. Program is going through restructure. Consult Lane's website for updated tuition and fees.

- Books $1,225
- Differential Fees* $1,225
- Instruments/Tools $1,425
- Program Specific Fees $2,025
- Resident Tuition and General Student Fees $10,920

Total Estimated Cost $18,355

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

**Course Requirements**

- Prerequisites are required for some courses. See course descriptions.
- PE/Health courses must be completed with a Pass or “C-” or better to meet program requirements.
- Arts and Letters, Human Relations, and Social Science course choices are listed on the Associate of Applied Science degree page.
- All CNC, 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.

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**Manufacturing Technician 1**

Offered by the Advanced Technology Division, 541.463.5380

**Career Pathway Certificate**

**Program Coordinator** Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, [reat@lanecc.edu](mailto:reat@lanecc.edu)

**Purpose** This certificate prepares the student for an entry level manufacturing position. The skills provided will prepare the student for successful advancement through on the job training.

**Learning Outcomes** Upon completing the training for this certificate, the student will know how to operate safely in a manufacturing environment. They will be able to effectively use precision measuring tools, read prints and have mathematical skills to accomplish shop tasks. They will have some experience using the bandsaw, mill and lathe, both manual and CNC.

**Admission Information** See [lanec.edu/advtech/mfg](http://lanec.edu/advtech/mfg) or contact the Advanced Technology Division, [AdvTechPrograms@lanecc.edu](mailto:AdvTechPrograms@lanecc.edu)

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CAREER TECHNICAL
Manufacturing Technology

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Admission Information See lanec.edu/advtech/mfg or contact the Advanced Technology Division, AdvTechPrograms@lanec.edu

Advising and Counseling classes.lanecc.edu/course/view.php?id=31255 See a Counselor or Advisor to learn what entry-level skills are suggested for successful completion of this program.

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Job Openings Projected through 2020
Lane County: 9 positions
Statewide: 130

Wages
Lane County average hourly - $15.96; average annual - $33,211
Oregon average hourly - $15.68; average annual - $32,611

Costs
Estimates based on 2016-2017 data. Program is going through restructure. Consult Lane’s website for updated tuition and fees.

Books .................................................. $120
Instruments/Tools .................................. $25
Program Specific Fees ................................ $144
Resident Tuition and General Student Fees ................... $1,845

Total Estimated Cost ................................ $2,134

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• MFG/CNC 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.

Manufacturing Technician 2
Offered by the Advanced Technology Division, 541.463.5380

Career Pathway Certificate

Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

Purpose This certificate prepares the student for a semi-skilled manual or CNC manufacturing position. The skills provided will prepare the student for successful advancement through on the job training.

Learning Outcomes Upon completing the training for this certificate, the student will know how to operate safely in a manufacturing environment. They will be able to effectively use precision measuring tools, read prints and have the mathematical skills to accomplish tasks. They will have experience using most manual shop machinery and have been introduced to programming, setup and operation of CNC lathes and mills.

Admission Information See lanec.edu/advtech/mfg or contact the Advanced Technology Division, AdvTechPrograms@lanec.edu

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Job Openings Projected through 2020
Lane County: 3 positions
Statewide: 385 positions

Wages
Lane County average hourly - $13.79; average annual - $28,675
Oregon average hourly - $15.60; average annual - $32,348

Costs
Estimates based on 2016-2017 data. Program is going through restructure. Consult Lane’s website for updated tuition and fees.

Books .................................................. $120
Instruments/Tools .................................. $25
Program Specific Fees ................................ $144
Resident Tuition and General Student Fees ................... $1,845

Total Estimated Cost ................................ $2,134

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• MFG/CNC 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.

Manufacturing Technology Computer Numerical Control Technician Option
Offered by the Advanced Technology Division, 541.463.5380

Associate of Applied Science Degree Option

Program Coordinator Tracy Rea, Bldg 15, Rm. 201, 541.463.5151, reat@lanecc.edu

Purpose This degree prepares the student for an entry level skilled CNC manufacturing position. The skills provided will prepare the student for successful advancement through on the job training.

Learning Outcomes Upon completing the training for this degree, the student will know how to operate safely in a manufacturing environment. They will be able to effectively use precision measuring tools, read prints and have the mathematical skills...
to accomplish shop tasks. They will have experience using most shop machinery including programming, setup and operation of CNC lathes and mills as well as CAD, CAM and verification software used in CNC manufacturing environments.

- have proficiency in the setup 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 to accomplish tasks.
- use the internet to access information pertaining to shop techniques and tool use.
- create and edit g-code programs both manually and with CAM software.
- setup, program and machine parts on 3-axis CNC milling machines and 2 axis CNC lathes.

Admission Information See lanec.edu/advtech/mfg or contact the Advanced Technology Division, AdvTechPrograms@lanec.edu

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Job Openings Projected through 2020
Lane County openings - 14 annually
Statewide openings - 135 annually

Wages
Lane County average hourly - $19.71; average annual - $41,001
Oregon average hourly - $19.14; average annual - $39,805

Costs Estimates based on 2016-2017 data. Program is going through restructure. Consult Lane’s website for updated tuition and fees.

Books .......................................................... $1,000
Differential Fees* ........................................ $2,990
Instruments/Tools ........................................ $1,425
Program Specific Fees ................................ $1,950
Resident Tuition and General Student Fees .......... $11,035

Total Estimated Cost $18,400

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- PE/Health courses must be completed with a Pass or “C-” or better to meet program requirements.
- Arts and Letters, Human Relations, and Social Science course choices are listed on the Associate of Applied Science degree page.
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<td>MFG 153 Manufacturing 3</td>
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<td>MFG 241 Solid Modeling 1</td>
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<tr>
<td>MFG 254 Manufacturing 4</td>
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Spring

<table>
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<th>Course</th>
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<tr>
<td>CNC 208 CNC Advanced Projects</td>
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<tr>
<td>MFG 244 CAM 2</td>
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<tr>
<td>CNC 209 Advanced CNC Concepts</td>
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</table>

Medical Assistant

Offered by the Health Professions Division, 541.463.5617

One-Year Certificate of Completion

Program Coordinator Health Professions Division, 541.463.5617

Purpose To train the graduate for a successful career in the profession of medical assisting, and qualified to become a Certified Medical Assistant. The Certified Medical Assistant is a vital member of the ambulatory health care team.

Learning Outcomes The student who successfully completes all Medical Assistant requirements 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.

Accreditation Medical 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, 25400 US Highway 19 North, Suite 158, Clearwater, FL 33753; caahep.org; 727.210.2350

**Licensing and Certification** Certified Medical Assistant

**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

**Advising and Counseling** Contact Counseling and Advising, Student Services Building, or e-mail MOAProgram@lanecc.edu

**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. 18, Rm. 105, 541.463.3177.

**Job Openings Projected through 2020** Lane County openings - 30 annually Statewide openings - 375 annually

**Wages** Lane County average hourly - $15.77; average annual - $32,791 Oregon average hourly - $16.42; average annual - $34,162

**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-ntl.org.

**Costs** (Estimates based on 2014-15 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>Books</th>
<th>$3,858</th>
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<tr>
<td>Certification, Licensure, Exams, Physicals</td>
<td>$125</td>
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<tr>
<td>Differential Fees*</td>
<td>$500</td>
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<tr>
<td>Resident Tuition and General Student Fees</td>
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</table>

**Total Estimated Cost** $10,555

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Gainful Employment Disclosure

31-9092.00

Standard Occupational Classification: 31-9092.00 Go to the Department of Labor’s O*Net website for a profile of this occupational: 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

In academic year 2014-15, 21 students completed this certificate.

The program is designed to take 4 terms, or about 15 months of study to complete.

Of students who completed this certificate in the 2014-15 academic year, 5% completed on time. Note: The federally required method for calculating this rate assumes students will declare their completion program major immediately, enroll full-time each term, and remain enrolled at Lane continuously until they complete their program. In reality, many community college students attend part-time, explore several majors, stop out for a term or more, change majors, and brush-up on their academic skills to be better prepared for college level courses, all of which affect this narrowly defined on-time graduation rate.

The median loan debt incurred by students who completed the program in 2014-15 = $10,500.

**Explanation of costs:** lanecc.edu/efsfs/credit-fees-and-expenses

**Course Requirements**

- Prerequisites are required for some courses. See course descriptions.
- WR 115W must be completed with a Pass or ‘C-‘ or better to satisfy program requirements.
- 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 COMM 218 was completed as prerequisite.
- 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.
- 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.
- These courses may be taken any term: BT 120, BT 165, HO 110, HO 114, HO 220.

**Prerequisites**

Choice of: CG 203 Human Relations at Work COMM 218 Interpersonal Communication ................................................. 3-4
HO 100 Medical Terminology ................................. 3
WR 115W Intro to College Writing: Workplace Emphasis or higher-level writing .................................................. 3-4
MTH 052 Math for Health and Physical Sciences .......... 4

**Fall**

Choice of:
- BT 120 MS Word for Business
- CS 120 Concepts of Computing Information Processing.... 4
- HO 110 Health Office Procedures .................................. 3
- HO 150 Human Body Systems ................................. 3
- MA 110 Clinical Assistant 1 ..................................... 3
- PSY 201 General Psychology ..................................... 4

**Winter**

BT 165 Introduction to the Accounting Cycle .............. 4
HO 152 Human Body Systems 2 ................................. 3
MA 120 Clinical Assistant 2 ..................................... 3
MA 150 Laboratory Orientation .................................. 3
MA 206 Co-op Ed: Medical Office Assistant Seminar .... 2
HIM 114 Introduction to Medical Coding .................... 3
HIM 220 Legal and Ethical Aspects of Healthcare .......... 3

**Spring**

MA 130 Clinical Assistant 3 .................................. 3
MA 280 Co-op Ed: Medical Assistant .......................... 5
HIT 160 Practice Management .................................. 3
HIM 112 Medical Insurance Procedures ...................... 3
HIM 153 Introduction to Pharmacology ...................... 3
Multimedia Design
Offered by Art and Applied Design, 541.463.5409
Associate of Applied Science Degree
One-Year Certificate of Completion - Multimedia Design

Learning Outcomes The student who successfully completes all Multimedia Design requirements will:
- become proficient in developing and applying effective visual design and production strategies for creating multimedia, film/video, animation, games, web sites, and photography for business, education, and entertainment industries.
- produce, manipulate, and process digital content using computer software applications.
- design digital projects incorporating multiple forms of media such as text, graphics, audio, video, and animation.
- have additional skills in one or more elective areas: software design, or media production.
- understand the concepts, potential and implications of communicating ideas using multimedia technologies.
- use appropriate library and information resources to research media issues, concepts and tools, and support lifelong technical learning.

Cooperative Education (Co-op) Opportunities to work directly in media industries 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, hughes@lanecc.edu.

Job Openings Projected through 2020
Lane County openings - 4 annually
Statewide openings - 37 annually

Wages
Lane County average hourly - $36.24; average annual - $64,969
Oregon average hourly - $36.59; average annual - $76,115

Costs (Estimate based on 2013-14 tuition and fees. Consult Lane's website for updated tuition.) Multimedia Design courses fees and other course fees may change during the year - see the online credit class schedule for fees assigned to courses.

Books .......................................................... $1,700
Resident Tuition and General Student Fees .................. $9,006
Total Estimated Cost $10,706

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Foundational Skills and Discipline Studies courses can be taken P/NP or for a letter grade of C- or higher: WR 121, MTH 60, CG 203, Science, and Health/PE.
- All major courses must be taken for a letter grade, not P/NP.
- Major courses that serve as a prerequisite in a sequence must be passed with a B- or higher: FA 250, MUL 105, AUD 120, ART 216, VP 151, MUL 212, VP 152, MUL 210, FA 261, and MDP 246. All remaining major courses must be passed with a C- or higher.
- Students must earn a grade of ‘B-’ or better in all prerequisite (s) and ‘C-’ or better in major requirements.
Multimedia Design
Offered by Art and Applied Design, 541.463.5409

One-Year Certificate of Completion

Program Coordinator Contact Arts Division, Bldg. 11, Rm. 101

Purpose To prepare students for entry-level positions in the media industry and careers in multimedia design and production.

Learning Outcomes The student who successfully completes all Multimedia Design requirements will:
• understand the concepts, potential, and implications of communicating ideas using computer-based media technology.
• become proficient in developing and applying effective visual design strategies for creating interactive multimedia, animation, games, web sites, and photography for business, education, and entertainment industries.
• use appropriate library and information resources to research media issues, concepts and tools, and support lifelong technical learning.
• design digital projects incorporating multiple forms of media such as text, graphics, audio, video, and animation.
• produce, manipulate, and process digital content using computer software applications.

Job Openings Projected through 2020
Lane County Openings - 4 annually
Statewide openings - 37 annually

Wages
Lane County average hourly - $31.24; average annual - $64,969
Oregon average hourly - $36.59; average annual - $76,115

Costs (Estimates based on 2013-14 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.)
Books ................................................................. $1,700
Resident Tuition and General Student Fees ............... $6,983
Total Estimated Cost .................................. $8,683

Gainful Employment Disclosure

27-1014.00
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

In academic year 2014-15, 8 students completed this certificate.
The program is designed to take 4 terms, or about 15 months of study to complete.
Lane Community College is committed to protecting student privacy and does not publish this rate for fewer than 10 graduates.
For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.
Explanation of costs: lanecc.edu/esfs/credit-fees-and-expenses

Course Requirements
• Foundational Skills and Discipline Studies courses can be taken P/NP or for a letter grade of C- or higher: WR 121, WR 121_H, MTH 60, and CG 203.
• All major courses must be taken for a letter grade, not P/NP.
• Major courses that serve as a prerequisite in a sequence must be passed with a B- or higher: CIS 195, ART 216, ART 289, and MUL 212. All remaining major courses must be passed with a C- or higher.

Choice of:
WR 121 Academic Composition or
WR 121_H Academic Composition: Honors .......... 4
MUL 105 Digital Photography........................... 4
FA 290 Concepts of Visual Literacy.................... 3
MUL 103 Time-Based Tools............................. 4
MUL 101 Introduction to Media Arts ................. 3

Winter
AUD 120 Audio Production.............................. 4
ART 115 Basic Design: Fundamentals ............... 3
ART 245 Drawing for Media........................... 4
Choice of:
Physical Education Activity Requirement
Health Requirement .................................... 3
ART 216 Digital Design Tools ........................ 4

Spring
FA 221 Computer Animation.......................... 4
MTH 060 Beginning Algebra or higher .............. 4
CG 203 Human Relations at Work .................. 3
VP 151 Video Production 1: Camera ................. 3
Science, Math, Computer Science course .......... 3-4

Web Design
Offered by Art and Applied Design, 541.463.5409

One-Year Certificate of Completion

Program Coordinator Contact the Arts Division, Bldg. 11, Rm 101.

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, and online content.

Learning Outcomes The student who successfully completes all Web Design requirements will:
• 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.
• understand the concept, potential and implications of communicating ideas using computer-based interactive media technology.
• understand the concepts of media and its effect on society, and how to use media ethically.
• 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.
• develop proficiency in multiple forms of media design which includes writing for the web, graphic and web design, online content, working with visual imagery, video, sound and animation.

Job Openings Projected through 2020
Lane County: 4
Statewide: 43

Wages
Lane County hourly average - $35.18; annual average - $73,172
Oregon hourly average - $31.18 ; annual average - $ 64,849

Costs
Books ................................................................. $1,700
Resident Tuition and General Student Fees ............... $6,173
Total Estimated Cost .................................. $7,873

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.
Gainful Employment Disclosure

15-1199.03

Standard Occupational Classification: 15-1199.03 Go to the Department of Labor’s O*Net website for a profile of this occupation: Web Administrators onetonline.org/link/summary/15-1199.03

In academic year 2014-15, 1 student completed this certificate.

The program is designed to take 4 terms, or about 15 months of study to complete.

Lane Community College is committed to protecting student privacy and does not publish this rate for fewer than 10 graduates. For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.

Explanation of costs: lanecc.edu/esfs/credit-fees-and-expenses

Course Requirements

• Prerequisites are required for some courses. See course descriptions.
• Foundational Skills and Discipline Studies courses can be taken pass/no pass or for a letter grade of C- or better.
• All program core courses must be taken for a letter grade and passed with a minimum grade of C-.
• All program core courses that serve as a prerequisite in a sequence must be taken for a grade of B- or higher (with the exception of WR 121.) See course description for prerequisites.

Fall

ART 115 Basic Design: Fundamentals.................................................. 3
CIS 195 Web Authoring 1................................................................. 3
ART 216 Digital Design Tools............................................................ 4
MTH 60 Beginning Algebra or higher .............................................. 4

Winter

ART 245 Drawing for Media............................................................... 4
ART 289 Web Production................................................................. 3
CS 133 JS Beginning Programming: Java Script............................ 4
MUL 212 Digital Imaging................................................................. 4

Spring

ART 290 Design Concepts for the Web ......................................... 3
MUL 218 Business Practices for Media Arts................................. 3
Choice of:
WR 121 Academic Composition or
WR 121 H Academic Composition: Honors............................... 4
MUL 280 Co-op Ed: Web Design.................................................... 3
CG 203 Human Relations at Work................................................. 3

Multimedia Design - Music Technology and Production

Offered by Music, Dance, and Theatre Arts 541.463.3108

Associate of Applied Science Degree

Career Pathway Certificate - MIDI and Audio Production

Career Pathway Certificate - MIDI Production

Program Coordinator Matthew Svoboda 541.463.5736 Building 6, Room 138; Hisao Watanabe 541.463.5019, Building 6, Room 142; Seth Mulvihill 541.463.5184, Building 6, Room 137

Purpose The music technology associate of applied science degree is designed to meet the training and experience needs of new college students, current industry professionals and artists who work with recording equipment, recording studios, and music technology equipment. The program also includes a robust emphasis on musicianship, including one year of music theory, lessons and performance experience. This AAS degree covers essential skills used in the audio world and provides hands on experience with state of the art hardware and software. The experience and skills will allow graduates to more easily attain positions in the industry or assist them in starting their own small businesses. The foundation of musicianship and music theory will also allow motivated graduates to further their studies at a number of universities and colleges that offer music technology or electronic music undergraduate degrees, such as University of Oregon and Northwest Christian University.

Learning Outcomes The student who successfully completes all Music Technology and Production requirements will:
• demonstrate proficiency using software and hardware for recording, editing and processing music and audio for commercial and artistic purposes.
• identify and use a variety of microphones, preamplifiers, and other outboard signal processors. Demonstrate skill in microphone selection and placement.
• analyze audio recordings in terms of frequency, stereo field, phase cancellation, and dynamic range.
• demonstrate knowledge of MIDI basics including: MIDI networks and MIDI sequencers.
• demonstrate understanding of technical vocabulary associated with audio engineering.
• demonstrate understanding of technical vocabulary associated with MIDI and MIDI software.
• engineer and produce recording sessions for many instruments and styles.
• do creative work under pressures of deadlines and scheduling time with clients.
• create high quality audio mixes for a variety of commercial and creative purposes.
• demonstrate proficiency in keyboards and/or other instrument(s).
• demonstrate knowledge and practical use of various studio file formats (AIF, MP3).

Advising and Counseling Judith Gates 541.463.3200

Job Openings Projected through 2020

Sound Engineering Technicians
Portland Metro 104 openings
Oregon statewide openings annually 4

Music Directors and Composers
Lane County openings 3
Oregon statewide openings annually 33

Media and Communications Workers
Lane County openings 0

Office and Administrative Support Workers
Lane County openings 29

Wages

Sound Engineering Technicians
Lane County average hourly wage $28.44

Music Directors and Composers
Lane County average hourly wage $18.86

Media and Communications Workers
Lane County average hourly wage $18.51

Office and Administrative Support Workers
Lane County average hourly wage $16.69

Costs

Books .......................................................................................... $1,000
Program Specific Fees ................................................................... $400
Resident Tuition and General Student Fees ................................. $9,743

Total Estimated Cost $11,143

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.
Course Requirements
- Music Theory Placement exam required to get into MUS 111. Contact music office 541.463.3108 for exam information.
- MUS 107, MUS 109, MUS 111, MUS 112, MUS 114, MUS 127 must be passed with a letter grade of C- or better to advance to the next course in the sequence.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
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<tbody>
<tr>
<td>Choose a group class from the following:</td>
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<tr>
<td>MUS 295 Syphonic Band</td>
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<tr>
<td>MUS 294 Jazz Ensemble</td>
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<tr>
<td>MUS 291 Chamber Choir</td>
<td></td>
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<tr>
<td>MUS 297 Concert Choir</td>
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<tr>
<td>MUS 118 Music Technology MIDI/Audio 1</td>
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<tr>
<td>Choose an ensemble course from the following:</td>
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<tr>
<td>MUS 110 Audio Engineering 3</td>
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<tr>
<td>MUS 104 History of Rock Music 1</td>
<td></td>
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<tr>
<td>MUS 112 History of Rock Music 2</td>
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<tr>
<td>MUS 113 History of Rock Music 3</td>
<td></td>
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<td>AUD 120 Audio Production</td>
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<tr>
<td>MTH 060 Beginning Algebra or higher</td>
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<td>Choose an elective course from the following:</td>
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<tr>
<td>MUS 101 Music Fundamentals</td>
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<tr>
<td>MUS 131 Group Piano</td>
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<table>
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<tr>
<td>Choose a group class from the following:</td>
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<td>MUS 103 Songwriting 1</td>
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<tr>
<td>MUS 102 Jazz Fundamentals</td>
</tr>
<tr>
<td>MUS 264 History of Rock Music 1</td>
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<td>MUS 265 History of Rock Music 2</td>
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<td>MUS 266 History of Rock Music 3</td>
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<td>AUD 120 Audio Production</td>
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<table>
<thead>
<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>Choose an elective course from the following:</td>
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<td>MUS 102 Jazz Fundamentals</td>
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<tr>
<td>MUS 161 Jazz Improvisation: Instrument</td>
</tr>
<tr>
<td>MUS 264 History of Rock Music 1</td>
</tr>
<tr>
<td>MUS 265 History of Rock Music 2</td>
</tr>
<tr>
<td>MUS 266 History of Rock Music 3</td>
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<tr>
<td>AUD 120 Audio Production</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall</th>
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<tbody>
<tr>
<td>Choose an ensemble course from the following:</td>
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<tr>
<td>MUS 295 Syphonic Band</td>
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<tr>
<td>MUS 294 Jazz Ensemble</td>
<td></td>
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<tr>
<td>MUS 291 Chamber Choir</td>
<td></td>
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<tr>
<td>MUS 297 Concert Choir</td>
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<tr>
<td>MUS 107 Audio Engineering 1</td>
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<tr>
<td>Choose an elective course from the following:</td>
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<tr>
<td>MUS 101 Group Piano</td>
<td></td>
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<tr>
<td>MUS 134 Group Voice</td>
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<tr>
<td>MUS 137 Group Guitar</td>
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<tr>
<td>MUS 138 Group Guitar</td>
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<tr>
<td>MUS 103 Songwriting 1</td>
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</tbody>
</table>

MIDI and Audio Production
Offered by Music, Dance and Theatre

Career Pathway Certificate

Program Coordinator: Matthew Svoboda 541.463.5736
Building 6, Room 103; Hisao Watanabe 541.463.5019, Building 6, Rm 142; Seth Mulvihill 541.463.5184, Building 6, Room 137

Purpose: Builds upon MIDI Production foundations with training in audio recording and editing software, hardware and techniques, including advanced audio production concepts such as creating audio for video, microphone techniques.

Learning Outcomes: The student who successfully completes all MIDI and Audio Production requirements will:
- demonstrate proficiency using software and hardware for recording, editing and processing music and audio for commercial and artistic purposes.
• identify and use a variety of microphones, preamplifiers, and other outboard signal processors. Demonstrate skill in microphone selection and placement.
• demonstrate understanding of technical vocabulary associated with MIDI and MIDI software.
• demonstrate understanding of technical vocabulary associated with audio engineering.
• demonstrate knowledge of MIDI basics including: MIDI networks, MIDI synthesizers, and MIDI sequencers.
• engineer and produce recording sessions for many instruments and styles.
• create high quality audio mixes for a variety commercial and creative purposes.
• demonstrate proficiency in keyboards and/or another instrument.
• demonstrate knowledge and practical use of various studio file formats (AIFF, MP3).

Advising and Counseling  Judith Gates 541.463.3420

Job Openings Projected through 2020

Sound Engineering Technicians
Portland Metro 104 openings
Oregon statewide openings annually 4

Music Directors and Composers
Lane County openings 3
Oregon statewide openings annually 33

Media and Communications Workers
Lane County openings 0

Office and Administrative Support Workers
Lane County openings 29

Wages

Sound Engineering Technicians
Lane County average hourly wage $28.44

Music Directors and Composers
Lane County average hourly wage $18.86

Media and Communications Workers
Lane County average hourly wage $18.51

Office and Administrative Support Workers
Lane County average hourly wage $16.69

Costs

Books ................................................................. $600
Program Specific Fees ......................................... $400
Resident Tuition and General Student Fees ................. $4,383

Total Estimated Cost $5,383

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

• Music Theory Placement exam required to get into MUS 111. Contact music office 541.463.3108 for exam information.

MUS 101 Music Fundamentals .................................. 3
MUS 131 Group Piano .......................................... 2
MUS 118 Music Technology MIDI/Audio 1 ............... 4
MUS 107 Audio Engineering 1 ............................... 3
MUS 111 Music Theory 1 (First Term) ...................... 4
MUS 114 Sight-reading and Ear Training (First Term) .... 2
MUS 127 Keyboard Skills 1 (First Term) ................... 2

Fall

Winter
MUS 119 Music Technology MIDI/Audio 2 .............. 4
MUS 109 Audio Engineering 2 ............................... 4
MUP 100 Individual Lessons .................................. 1

Spring
AUD 120 Audio Production .................................. 4
MUS 110 Audio Engineering 3 ............................... 4

Choose a course from the following:
MUS 295 Syphonic Band
MUS 294 Jazz Ensemble
MUS 291 Chamber Choir
MUS 297 Concert Choir ...................................... 2

MIDI Production

Offered by Music, Dance, and Theatre Arts

Career Pathway Certificate

Program Coordinator  Matthew Svoboda 541.463.5736 Building 6, Room 138; Hisao Watanabe 541.463.5019, Building 6, Room 142; Seth Mulvihill 541.463.5184, Building 6, Room 137

Purpose
Develops familiarity with MIDI software, MIDI hardware, and foundations of music production including basic audio production concepts such as file management, mixing, and basic recording

Learning Outcomes
The student who successfully completes all MIDI Production requirements will:

• demonstrate proficiency using software and hardware for recording, editing and processing MIDI data for commercial and artistic purposes.
• demonstrate knowledge of MIDI basics including: MIDI networks and MIDI sequencers.
• be able to use a variety of synthesizers, virtual instruments, and keyboards with MIDI software.
• demonstrate understanding of technical vocabulary associated with MIDI and MIDI software.
• show at least basic proficiency in keyboards and/or another instrument.
• use basic keyboard skills and music theory knowledge to create MIDI projects and mixes.
• demonstrate knowledge and practical use of various studio file formats (AIFF, MP3).

Advising and Counseling  Judith Gates 541.463.3420

Job Openings Projected through 2020

Sound Engineering Technicians
Portland Metro 104 openings
Oregon statewide openings annually 4

Music Directors and Composers
Lane County openings 3
Oregon statewide openings annually 33

Media and Communications Workers
Lane County openings 0

Office and Administrative Support Workers
Lane County openings 29

Wages

Sound Engineering Technicians
Lane County average hourly wage $28.44

Music Directors and Composers
Lane County average hourly wage $18.86

Media and Communications Workers
Lane County average hourly wage $18.51

Office and Administrative Support Workers
Lane County average hourly wage $16.69
### Costs

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Books</td>
<td>$300</td>
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<tr>
<td>Program Specific Fees</td>
<td>$400</td>
</tr>
<tr>
<td>Resident Tuition and General Student Fees</td>
<td>$2,200</td>
</tr>
</tbody>
</table>

**Total Estimated Cost**: $2,900

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

### Nursing

**Offered by the Health Professions Division 541.463.5617**

**Associate of Applied Science Degree**

**One-Year Certificate of Completion - Practical Nursing**

**No Degree or Certificate - Practical Nursing Bridge**

**Program Coordinator** Associate Dean for Health Professions, Bldg. 30, Rm. 226. 541.463.5754

**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.

- **bases personal and professional actions on a set of shared core nursing values.**
- **develops insight through reflection, self-analysis and self-care.**
- **engages in intentional learning.**
- **demonstrates leadership in nursing and healthcare.**
- **collaborates as part of a health care team.**
- **utilizes and contributes to the broader health care system.**
- **practices relationship-centered care.**
- **communicates effectively.**
- **makes sound clinical judgments.**
- **uses the best available evidence.**

**Accreditation** Nursing, Oregon State Board of Nursing (OSBN) 27938 SW Upper Boones Ferry Rd, Portland, OR, 97167.6085, 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 nine community colleges and OHSU consortium partners.

**Licensing and Certification** Successful graduates will be awarded an Associate Degree in Nursing and be eligible to take the National Council Licensure Examination-RN (NCLEX-RN) which confers licensure as a registered nurse.

**Admission Information**

- **Program website:** lanecc.edu/hp/nursing
- **Program Specific Fees**
  - Lanecc.edu/hp/nursing/registered-nursing-application-information
  - Oregon residency required.

Information on criminal background checks and disqualifying crimes can be found at the Oregon Board of Nursing at: oregon.gov/OSBN/pages/criminal_history.aspx

**Advising and 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. A free online Academic Advising resource can be found by going to classes.lanecc.edu. Scroll down and select “Academic Advising”. Then choose “Nursing”. Log in as a Guest.

**Cooperative Education (Co-op)** Co-op internships may be taken as an optional elective any of the last four terms of the program. Contact Associate Dean of Health Profession, (Cooperative Education Coordinator for Nursing), Bldg. 30, Rm. 226, 541.463.5754.

**Job Openings Projected through 2020**

Lane County openings - 133 annually

Statewide openings 1,284 annually

**Wages**

Lane County average hourly - $39.49 average annual - $82,139

Oregon average hourly - $40.87 average annual - $85,021

**Costs** (Estimate based on 2016-17 tuition and fees. Consult Lane’s website for updated tuition.)

<table>
<thead>
<tr>
<th>Books</th>
<th>$1,400</th>
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<tbody>
<tr>
<td>Certifications, Exams, and Physicals</td>
<td>$248</td>
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<td>Computers/Internet Service</td>
<td>$1,300</td>
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<td>Differential Fees</td>
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<td>Program Specific Fees</td>
<td>$3,213</td>
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<tr>
<td>Resident Tuition and General Student Fees</td>
<td>$8,786</td>
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**Total Estimated Cost**: $26,657

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

**Course Requirements**

- **Prerequisites are required for some courses. See course descriptions.**
- **All courses except Clinical Labs, Cooperative Education, and Biology with Genetics must be passed with a letter grade of 'C' or better. C- or less not accepted.**
- **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.**
- **PSY 236 is not offered at Lane, but is available at other colleges in the OCNE consortium.**
- **Students must be enrolled in the Nursing Program to register for any NRS classes.**
- **BI 233 and BI 234 course must have been completed within 7 years prior to start the nursing program.**
- **WR 121 and 227 are waived if WR 121 and WR 122 are taken as 4 credit courses.**
- **Courses: See Prerequisite Courses for Program Admission.**
- **Other immunizations, drug testing, criminal background check required. Information relating to criminal background checks and disqualifying crimes can be found at the Oregon Board of Nursing: oregon.gov/OSBN/pages/criminal_history.aspx**

**Prerequisites**

<p>| BI 232 Human Anatomy and Physiology 2 | 4 |
| BI 231 Human Anatomy and Physiology 1 | 4 |
| BI 233 Human Anatomy and Physiology 3 | 4 |
| FN 225 Nutrition | 4 |</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY 215 Lifespan Developmental Psychology</td>
<td>4</td>
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<tr>
<td>MTH 095 Intermediate Algebra</td>
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**Choice of:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WR121 Academic Composition Honors</td>
<td>4</td>
</tr>
<tr>
<td>WR121 H Academic Composition Honors</td>
<td>4</td>
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</table>

**Choice of:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR122 Composition: Argument, Style and Research-Honors</td>
<td>4</td>
</tr>
<tr>
<td>WR122 H Composition: Argument, Style and Research-Honors</td>
<td>4</td>
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**Arts and Letters, Social or Natural Science electives (required for BS, not for AAS):**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Arts and Letters, Social or Natural Science electives (required for BS, not for AAS):</td>
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**Biology with Genetics:**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BI 234 Introductory Microbiology</td>
<td>6</td>
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<tr>
<td>College level 100 or 200 level non-studio Arts and Letters, Human Relations, Social Science or Science Electives:</td>
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**Choice of:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR123 Composition: Research Writing</td>
<td>4</td>
</tr>
<tr>
<td>WR227 Technical Writing 4CR</td>
<td>3</td>
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**Arts and Letters, Social or Natural Science electives (required for BS, not for AAS):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Arts and Letters, Social or Natural Science electives (required for BS, not for AAS):</td>
<td>6</td>
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**First Year**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>NRS 110A Foundations of Nursing-Health Promotion</td>
<td>4</td>
</tr>
<tr>
<td>NRS 110B Foundations of Nursing-Health Promotion Clinical Lab</td>
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</table>

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NRS 111A Foundations of Nursing in Chronic Illness 1</td>
<td>2</td>
</tr>
<tr>
<td>NRS 111B Foundations of Nursing in Chronic Illness 1-</td>
<td>4</td>
</tr>
<tr>
<td>Clinical Lab</td>
<td></td>
</tr>
<tr>
<td>NRS 230 Clinical Pharmacology 1</td>
<td>3</td>
</tr>
<tr>
<td>NRS 232 Pathophysiological Processes 1</td>
<td>3</td>
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</table>

**Choice of:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR123 Composition: Research Writing</td>
<td>4</td>
</tr>
<tr>
<td>WR227 Technical Writing 4CR</td>
<td>3</td>
</tr>
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</table>

**Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 112A Foundations of Nursing in Acute Care 1</td>
<td>2</td>
</tr>
<tr>
<td>NRS 112B Foundations of Nursing in Acute Care 1</td>
<td>4</td>
</tr>
<tr>
<td>Clinical Lab</td>
<td></td>
</tr>
<tr>
<td>NRS 231 Clinical Pharmacology 2</td>
<td>3</td>
</tr>
<tr>
<td>NRS 233 Pathophysiological Process 2</td>
<td>3</td>
</tr>
<tr>
<td>NRS 280 Co-op Ed: Nursing</td>
<td>2-3</td>
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</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Biology with Genetics:</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
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<tr>
<td>BI 112 (4 credits)</td>
<td></td>
</tr>
<tr>
<td>BI 112 (3 credits) + BI 233</td>
<td></td>
</tr>
<tr>
<td>BI 10F + BI 233</td>
<td></td>
</tr>
<tr>
<td>BI 211 + BI 233</td>
<td></td>
</tr>
<tr>
<td>BI 10K + BI 233</td>
<td></td>
</tr>
<tr>
<td>BI 10K + BI 102G</td>
<td>3-4</td>
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</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 221A Foundations of Nursing in Chronic Illness 2 and End-of-Life</td>
<td>4</td>
</tr>
<tr>
<td>NRS 221B Foundations of Nursing in Chronic Illness 2 and End-of-Life Clinical Lab</td>
<td>5</td>
</tr>
<tr>
<td>NRS 280 Co-op Ed: Nursing</td>
<td>2-3</td>
</tr>
</tbody>
</table>

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 222A Foundations of Nursing in Acute Care 2 and End-of-Life</td>
<td>4</td>
</tr>
<tr>
<td>NRS 222B Foundations of Nursing in Acute Care 2 and End-of-Life Clinical Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Letters, Social or Natural Science electives (required for BS, not for AAS):</td>
<td>6</td>
</tr>
</tbody>
</table>

**Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Letters, Social or Natural Science electives (required for BS, not for AAS):</td>
<td>6</td>
</tr>
</tbody>
</table>

### Practical Nursing

**Offered by the Health Professions Division 541.463.5617**

**One-Year Certificate of Completion**

<table>
<thead>
<tr>
<th>Program Coordinator</th>
<th>Associate Dean of Health Professions, 541.463.5754</th>
</tr>
</thead>
</table>

**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**

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).

- identify issues and care for clients in multiple healthcare settings.
- 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.
- 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.

**Accreditation**

Practical Nursing, accredited by the Oregon State Board of Nursing (OSBN), 17938 SW Upper Boones Ferry Rd., Portland, OR 97163-0685, oregon.gov/OSBN.

**Licensing and Certification**

Completion of this program gives the student a certificate in Practical Nursing, which meets the educational requirements for the National Exam for PN licensure (NCLEX-PN).

**Admission Information**

- Program website: lanecc.edu/hp/nursing
- Application website: lanecc.edu/hp/nursing/licensed-practical-nursing-application-information
- Drug testing, criminal background check and immunizations are required. Contact lanecc.edu/hp/nursing/licensed-practical-nursing.
- Information on criminal background checks and disqualifying crimes can be found at the Oregon Board of Nursing at: arcweb.sos.state.or.us/pages/rules/oars_800/oar, 851/851_045.html

**Advising and 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. A free online Academic Advising resource can be found by going to classes.lanecc.edu. Scroll down and select “Academic Advising”. Then choose “Practical Nursing”.

**Job Openings Projected through 2020**

- Lane County - 10 annually
- Oregon - 119 annually

**Wages**

- Lane County average hourly - $22.76 average annual - $47,336
- Oregon average hourly - $23.97 average annual - $49,871
CAREER TECHNICAL

Nursing

Choice of:

PN 101 Practical Nursing 1

Further Mathematics, or Statistics)

Calculus, or Statistics), or IB (Mathematics, or Math Studies, or

scripted credits: AP (Calculus), or CLEP (College Algebra, or any

MATH: Choice of MTH 052, MTH 065, MTH 095, MTH 105 or higher.

BI 233 Human Anatomy and Physiology 1

BI 232 Human Anatomy and Physiology 2

BI 231 Human Anatomy and Physiology 3

PSY 215 Lifespan Developmental Psychology

Human Relations Requirement.

HO 100 Medical Terminology 1

MATH: Choice of MTH 052, MTH 065, MTH 095, MTH 105 or higher.

Or Credit by Exam for one of the above math classes 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)

Current Certified Nursing Assistant (CNA)

PN 101 Practical Nursing 1

Choice of:

WR121 Academic Composition

WR121_H Academic Composition Honors

Winter

Spring

Choice of:

WR122 Composition: Style and Argument

WR122_H Composition: Style and Argument

Summer

PN 102 Practical Nursing 2

PN 103 Practical Nursing 3

Practical Nursing Bridge

Offered by the Health Professions 541.463.5617

No Degree or Certificate

Program Coordinator Associate Dean of Health Professions.

541.463.5754

Purpose Completion of this program gives the student the oppor-
tunity to apply for transfer into the fourth term of the Associate
Degree of Nursing Program at any school in the Oregon Consor-
tium for Nursing Education. Transfer is not guaranteed.

Learning Outcomes The student who successfully completes all
Practical Nursing Bridge requirements will:

• reflect on own practice using the 10 OCNE competencies,
  rubrics and benchmarks.

• develop evidenced based plans of care that are family centered,
  developmentally and culturally appropriate.

• identify potential legal and ethical issues related to patient deci-
  sion-making and informed consent in acute care settings.

• identify roles of health care team members involved in patient
care and delegation needs for patient care with experienced

nurses.

• describe similarities and differences between the role of the
  LPN and RN including scope of practice.

• pathophysiology, medical management and nursing interven-
tion in caring for clients with all conditions to include acute,
chronic, obstetrics, psychiatric and terminal illness.

• understand the principles of pharmacodynamics and pharma-
cokineti cs.

Licensing and Certification Completion of this program gives
the student the opportunity to apply for transfer into the fourth
term of the Associate Degree of Nursing Program at any school
in the Oregon Consortium for Nursing Education. Transfer is
not guaranteed.

Admission Information

• Program website: lanecc.edu/hp/nursing

• Drug testing, criminal background check and immunizations
  required. Consult 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: oreg-
on.gov/OSBN/pages/criminal_history.aspx

Advising and Counseling For assistance with meeting applica-
tion or program requirements contact Counseling and Advising
in Building 1, Room 103 or E-mail NursingProgram@lanecc.

.edu with your specific questions. A free online Academic Advis-
ing resource can be found by going to classes.lanecc.edu. Scroll
down and select “Academic Advising”. Then choose “Nursing”.

Log in as a Guest.

Job Openings Projected through 2020

N/A

Wages

N/A

Costs (Estimate based on 2016-17 tuition and fees. Consult
Lane’s website for updated tuition.)

Books ................................................................. $280

Program Specific Fees ........................................ $1,078
Resident Tuition and General Student Fees .................. $2,194
Total Estimated Cost .......................... $3,552

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Prerequisites are required for some courses.
- All courses except Clinical Labs, Cooperative Education, and Biology with Genetics must be passed with a letter grade of 'C' or better. C- or less not accepted.
- 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 institutions.
- PSY 236 is not offered at Lane, but is available at other colleges in the OCNE consortium.
- WR 123 and 227 are waived if WR 121 and WR 122 are taken as 4 credit courses.
- BI 233 and BI 234 course must have been completed within 7 years prior to start the nursing bridge program.
- Students must be enrolled in the Nursing Bridge Program to register for any NRS classes.

Prerequisites
BI 231 Human Anatomy and Physiology 1 .................. 4
BI 232 Human Anatomy and Physiology 2 .................. 4
BI 233 Human Anatomy and Physiology 3 .................. 4
FN 225 Nutrition.............................................. 4
PSY 215 Lifespan Developmental Psychology ............... 3-6
WR 121 Academic Composition................................ 4
WR 122 Argument, Research and Multimodal Composition.................................................. 4
Unencumbered Oregon LPN License
Minimum of 500 LPN practice hours
BI 234 Introductory Microbiology............................................ 4
Biology with Genetics, for example BI 112, 211................. 4
Any college level 100 or 200 non-studio Arts/Letters, social science or human relations electives ....................... 3-12
MTH095 Intermediate Algebra 5 Credit(s) Max or higher
or Credit by Exam or 540 enrolled in a course or
CLEP (College Algebra, or any Calculus, or Statistics), or IB (Mathematics, or Math Studies, or Further Mathematics, or Statistics) .............................................. 4-5
Human Relations Requirement ........................................ 4

Nursing
NRS 230 Clinical Pharmacology 1 .................................. 3
NRS 232 Pathophysiological Processes 1 .................. 3
NRS 231 Clinical Pharmacology 2 .................................. 3
NRS 233 Pathophysiological Process 2 .................. 3
NRS 115 LPN Transition to OCNE ................................. 6

Paramedicine
Offered by the Health Professions Division, 541.463.5617

Associate of Applied Science Degree
One-Year Certificate of Completion - Emergency Medical Technician

Program Coordinator Tom Brokaw

Purpose To produce competent, entry level EMT and Paramedics to serve in a career in EMS.

Learning Outcomes The student who successfully completes all Paramedicine requirements will:
- demonstrate personal behaviors consistent with public and employer expectations of professional EMS providers.
- demonstrate technical proficiency in the performance of EMT and/or paramedic skills.
- demonstrate technical proficiency with the operation of EMT and/or paramedic equipment.
- be able to understand, interpret, apply, evaluate and effectively communicate EMS and general medical knowledge necessary to function in a healthcare setting.
- be able to verbally communicate effectively.

Accreditation 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 333-265) and must meet the standards established by the ODE in OAR 581, division 49. arcweb.sos.state.or.us/rules/OARS_580/OAR_581_581_049.html

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/emt.

Advising and Counseling For questions about credit coursework contact Counseling and Advising, Student Services Building, or email EMTParamedicProgram@lanecc.edu. For information on non-credit offerings in EMS visit the EMT website, lanecc.edu/hp/emt. For all EMT specific questions contact ems@lanecc.edu.

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 for on-the-job experience to complete Paramedic training.

Job Openings Projected through 2020
Lane County openings - 8 annually
Statewide openings - 137 annually

Wages
Lane County average hourly for Paramedic/Fire Fighter - $26.78; average annual - $55,703

Costs Estimate based on 2015-16 tuition and fees. Students attending part-time will incur additional term fees. Consult Lane's website for updated tuition.

Books .......................................................... $2,016
Certification, Licensure, Exams, Physicals ...................... $1,853
Computers/Internet Service ..................................... $1,450
Differential Fees* .............................................. $1,587
Instruments/Tools .............................................. $20
Program Specific Fees .......................................... $3,970
Resident Tuition and General Student Fees ..................... $10,050
Uniforms ........................................................ $275

Total Estimated Cost $21,521

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Prerequisites are required for some courses. See course descriptions.
- EMT 271 and EMT 273 must be completed with a grade of ‘Pass’ or ‘C’ or better.
- MTH 095, PSY 110, WR 121, HE 275, COMM 111, and Social Science/Human Relations requirement must be completed with a letter grade, not P/NP.
- 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.
- Choices for Social Science/Human Relations requirement are listed on the Associate of Applied Science degree page.
- Students pursuing a bachelor’s degree need to complete a college level, transferable math course.
- Prerequisites are required for BI 231. See course descriptions.

First Year

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>First Term</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 231 Human Anatomy and Physiology 1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EMT 151 Emergency Medical Technician Basic Part 1</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>EMT 152 Emergency Medical Technician Basic Part 2</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>
Emergency Medical Technician

Offered by the Health Professions Division, 541.463.5617

One-Year Certificate of Completion

Program Coordinator Cory Miner, minerjc@lanecc.edu

Purpose 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 of the Paramedic AAS offered throughout the state. All Community College paramedic programs follow the same curriculum and accept students transferring from community colleges that only provide the first-year courses.

Learning Outcomes The student who successfully completes all Emergency Medical Technician requirements will:

Admission Information Please consult lanec.edu/hp/emt

Advising and Counseling Marleena Pearson pearsonm@lanecc.edu

Job Openings Projected through 2020

Lane County openings - 5 annually
Statewide openings - 82 annually

Wages
Oregon average hourly - $18.25; average annual - $37,965

Costs Estimates based on 2014-15 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane’s website for updated tuition and fees.

Books ......................................................... $1,150
Certification, Licensure, Exams, Physicals ........................................... $988
Computers/Internet Service .......................................................... $1,000

Differential Fees* .......................................................... $506
Program Specific Fees .................................................. $1,595
Resident Tuition and General Student Fees ......................... $4,975
Uniforms ................................................................ $215

Total Estimated Cost $10,439

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit schedule for fees assigned to courses.

Gainful Employment Disclosure

29-2041.00

Go to the Department of Labor’s O*Net website for a profile of this occupation: Emergency Medical Technicians and Paramedics O*Netonline.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 Office Clerks, General onetonline.org/link/summary/43-9061.00

In academic year 2014-15, 5 students completed this certificate. The program is designed to take 4 terms, or about 15 months of study to complete.

Lane Community College is committed to protecting student privacy and does not publish this rate for ten or fewer graduates.

For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.

Explanation of costs: lanec.edu/esfs/credit-fees-and-expenses

Course Requirements

• Prerequisites are required for some courses. See course descriptions.
• MTH 095, PSY 110, and WR 121 must be completed with a letter grade, not P/NP.
• 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.
• Prerequisites are required for BI 231. See course descriptions.

Fall
BI 231 Human Anatomy and Physiology 1 ................................. 4
EMT 151 Emergency Medical Technician Basic Part 1 ............... 5
EMT 175 Introduction to Emergency Services ......................... 4
EMT 152 Emergency Medical Technician Basic Part 2 ............... 5

Winter
Choice of:

WR121 Intro to Academic Composition ........................................ 4
BI 232 Human Anatomy and Physiology 2 ............................... 4
EMT 196 Crisis Intervention .................................................... 4
MTH 095 Intermediate Algebra or higher ................................ 3

Spring
BI 233 Human Anatomy and Physiology 3 ............................... 4
EMT 169 Emergency Services Rescue ................................. 4
EMT 170 Emergency Response Communication/Documentation .... 4
EMT 171 Emergency Response Patient Transportation ........... 2
PSY 110 Exploring Psychology or higher ............................... 3
HO 100 Medical Terminology 1 ........................................ 3

Physical Therapist Assistant

Offered by the Health Professions Division, 541.463.5617

Associate of Applied Science Degree

Program Coordinator Christina Howard, PT, MPT, Health Professions, Building 30, Room 124, 541.463.5764, howardc@lanecc.edu
Purpose
Prepare the graduate to qualify for the National Physical Therapist Assistant 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 based on the guidelines of 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, neuromotor 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.

Accreditation
Physical Therapist Assistant, accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, VA 22314; phone: 703.706.3245; email: accreditation@apta.org; website: capteonline.org.

Admission Information
Students are admitted once a year. Admission is restricted and is based on a program application. Please consult lanecc.edu/hp/pta/.

Advising and 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 a program-designated co-op site. Contact Beth Thorpe, PTA Cooperative Education Coordinator, Bldg. 30, Rm. 108, 541.463.3274, thorpeb@lanecc.edu.

Job Openings Projected through 2020
Lane County openings - 3 annually
Statewide openings - 40 annually

Wages
Lane County median hourly - $28.47; average annual - $59,817
Oregon median hourly - $26.78; average annual - $58,628

Costs
Estimated based on 2015-16 tuition and fees. Consult Lane's website for updated tuition and fees for prerequisite and program courses. Prerequisite costs will vary for transfer students.

Books ........................................................................... $900
Certification, Licensure, Exams, Physcicals ..................... $2,559
Computers/Internet Service ....................................... $1,100
Differential Fees* ........................................................ $1,610
Program Specific Fees .................................................. $938
Resident Tuition and General Student Fees ....................... $11,053

Total Estimated Cost $18,160

*This is the total of all the differential fees attached to the courses in this program. These fees and other course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
- Prerequisites are required for some courses. See course descriptions
- No more than 16 credits with a grade of Pass are accepted
- Non-PTA courses must be passed with a grade of Pass or C or better to satisfy program requirements
- All PTA courses must be completed with a letter grade of C or better to satisfy program requirements

Prerequisites Required to Apply
Proof of clinical observation hours with a PT or PTA ........ 25
Choice of:
WR 121 Introduction to Academic Writing
WR121_H Introduction Academic Writing
WR 122 Composition: Argument, Style, and Research
WR 122H Composition: Argument, Style, and Research
WR 123 Composition: Research, or 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
PSY 216 Lifespan Developmental Psychology

Prerequisite requirements prior to Cooperative Education
AHA CPR for Health Professionals
Physical examination
Drug and alcohol screen
Public Health Education and Promotion Specialist

Offered by Health Education 541.463.5545

Associate of Applied Science Degree

Career Pathway Certificate - Health Educator

Program Coordinator Susie Cousar 541.463.5271

Purpose
This will be a program of study that prepares individuals to assume roles as health education, promotion and wellness professionals in private business and industry, community organizations, and health care settings. Areas this may include are: personal health, community health and welfare, nutrition, disease prevention and causation, mental and developmental health, fitness, occupational or environmental health and safety, health navigation as well as health behavior change and intervention. Students in this program will be trained to become agents for positive health behavior change in the community. This program will provide students with experience, knowledge, and strategies to utilize and apply the skills needed to improve and promote personal and community health outcomes. The core classes in this program will focus on the scientific dimensions within the academic fields of Health Education/ Promotion and Public Health which include the exploration of physical, social, emotional, mental, psychological, occupational, and environmental aspects of both personal and community health and well-being and the prevention of disease, disability and chronic health issues. Because of the multidisciplinary nature of this field, students will also take a wide variety of classes from the social science, biological science, psychological science, and human services academic areas. This program is designed to prepare students to enter the private and public workforce within the following fields: health education and promotion, wellness specialists, public health advocate, planners presenters and research assistants, safety and disease prevention specialists, personal health coach-navigator, retirement and home health-activity coordinators, community health advocates and workers, personal health caregivers, occupational and environmental health specialist, assistants, mental/social health administration, violence prevention educators, and all employment opportunities that require the skills and understanding of individual and community-health promotion, disease prevention, education and advocacy.

Learning Outcomes
The graduate of the Associate of Applied Science program will be able to: - Demonstrate skills and abilities to utilize current research, plan, develop, organize and assess materials and presentations to appropriately communicate information with individuals and the public about current individual and public/community health issues including the following areas: - The personal and societal determinants of health - Community and interpersonal violence - Personal behavior change - Chronic and communicable disease causation and prevention - Individual and societal impacts of Obesity, hunger, and malnourishment - Drug addiction care and prevention - Environmental Health issues such as air and water pollution and the connection between ecological and human health issues - Social and cultural paradigms that can impact individual- and community-health equity and outcomes - Health-care access and issues - Reproduction and sexual health including the prevention of unplanned pregnancies and sexually transmitted disease - Emergency response, First Aid and Safety - Fitness and physical activity.

- develop curriculum for presentations, classes, activities, online courses, and web content.
- conduct individual and group learning experiences and activities both in person and online.
- utilize the skills needed to organize and coordinate events, meetings, workshops, conferences and fundraising.
- demonstrate writing proficiency necessary for grant funding, legislation development, published resources for web content, policies and procedures and other materials needed.
- demonstrate computer skills with a variety of programs and databases for research, writing, web development, and organizational planning.
- conduct, record and analyze simple health assessments including blood pressure, body mass index, target heart rate and nutritional screenings.
- collect and analyze data including conducting field tests and interviews when needed.
- plan and conduct assessments audits and evaluations for individuals, community, and the workplace.
- ability to integrate social marketing within, public speaking, planning, curricula and written materials.
- demonstrate the ability to clearly articulate ideas, reasoning and confidence in public speaking.
- utilize collaborative, emotionally intelligent, and culturally competent team skills in the design and implementation of health education and public health classes and programs for diverse individuals and populations.
- create and utilize appropriate community networks and resources to ensure that individuals and community groups have access to appropriate support systems.
- develop and implement policies, legislation, and individual behavior-change agreements and community health action plans for the prevention of disease, accidents, injuries, and disasters.
• develop and utilize efficient organizational processes to ensure prompt follow-up, tracking, and project management.
• utilize motivational interviewing techniques and community surveys to assist in the planning, assessment, and implementation of individual and community health promotion plans and programs.

Admission Information Please consult lanec.edu/healthpe

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.

Job Openings Projected through 2020
Employment in this occupation in 2012 was at about the statewide average for all occupations. The total number of job openings is projected to be at about the statewide average number of job openings for all occupations through 2022. This occupation is expected to grow at about the statewide average growth rate for all occupations through 2022.
Reasonable employment opportunities exist for trained workers. Totals new Jobs in Oregon per year, Approx. 32

Wages
Lane County average hourly - $30.35; average annual - $63,407
Oregon average hourly - $28.06; average annual - $58,361
Wage forecast is currently for Bachelors or Masters degree level.
Employment wages are likely to be adjusted based on position for candidate with AAS degree

Costs Estimate is based on 2016-2017 tuition and fees (books and materials are not included). Consult Lane's website for updated tuition: lanec.edu/esfs/credit-tuition
Resident Tuition and General Student Fees........................................ $10,807
Total Estimated Cost $10,807

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
In addition to completing all required courses and meeting college graduation requirements, students must meet the following requirements:
• Students must fill out application prior to second year of enrollment in cooperative education courses.
• All courses must be completed with a letter grade and be passed with a C or better grade to satisfy course requirements.
• Students must receive a positive evaluation from supervisors and coordinators for their co-op classes.
• HO 150/152 are offered online and Anatomy and Physiology courses (Combination of Bio 231-233) can be substituted for the HO 150/152 combo.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE 209 Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>HE 152 Drugs, Society and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HO 100 Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>Choice of:</td>
<td></td>
</tr>
<tr>
<td>WR 121 Intro to Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td>WR 121_H Intro to Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td>Choice of:</td>
<td></td>
</tr>
<tr>
<td>SOC 205 Social Stratification and Social Systems</td>
<td>4</td>
</tr>
<tr>
<td>SOC 206 Institutions and Social Change</td>
<td>4</td>
</tr>
<tr>
<td>SOC 213 Race and Ethnicity</td>
<td>4</td>
</tr>
<tr>
<td>HE 275 Lifetime Health and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>HI 101 Introduction to Health Care and Public Health in the US</td>
<td>4</td>
</tr>
<tr>
<td>CG 203 Human Relations at Work</td>
<td>3</td>
</tr>
<tr>
<td>HO 150 Human Body Systems</td>
<td>3</td>
</tr>
<tr>
<td>Choice of PSY 201, 202, 239 or 215*</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HO 152 Human Body Systems</td>
<td>3</td>
</tr>
<tr>
<td>MTH 205 Basic Mathematics Applications or higher</td>
<td>3</td>
</tr>
<tr>
<td>HE 125 Workplace Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HS 228 HIV/AIDS and other Infectious Diseases: Risk Assessment and Intervention</td>
<td>2</td>
</tr>
<tr>
<td>COMM 112 Persuasive Speech</td>
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</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Choice of:</td>
<td></td>
</tr>
<tr>
<td>WR122 Composition: Style and Argument</td>
<td>4</td>
</tr>
<tr>
<td>WR122_H Composition: Style and Argument</td>
<td>4</td>
</tr>
<tr>
<td>HE 250 Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>HE 252 First Aid</td>
<td>3</td>
</tr>
<tr>
<td>HE 280PH Co-op Ed: Public Health</td>
<td>3</td>
</tr>
<tr>
<td>Choice of COMM 105, 115, 218</td>
<td>4</td>
</tr>
</tbody>
</table>

Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE 255 Global Health and Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>FN 225 Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>Choice of HS107, HS235 or EXMS214</td>
<td>3</td>
</tr>
<tr>
<td>Choice of any two 1 credit PE course</td>
<td>2</td>
</tr>
<tr>
<td>HE 280PH Co-op Ed: Public Health</td>
<td>3</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Choice of BIO103G or BIO 103M</td>
<td>4</td>
</tr>
<tr>
<td>HS 231 Advanced Interviewing and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>HE 240 Holistic Health</td>
<td>3</td>
</tr>
<tr>
<td>HE 280PH Co-op Ed: Public Health</td>
<td>3</td>
</tr>
<tr>
<td>108A Selected Topics in Women's Studies, Women's Bodies, Women's selves</td>
<td>3</td>
</tr>
</tbody>
</table>

Health Educator

Offered by Health PE and Athletics, 541.463.5271

Career Pathway Certificate

Program Coordinator Susie Cousar, 541.463.5271 or cousins@lanec.edu

Purpose This certificate of completion will prepare individuals to assume roles in occupations that utilize health education, promotion and wellness in private business and industry, community organizations, and health care settings. This career pathway or certificate of completion is designed to enhance the skills in these occupational areas: personal health/wellness coach, social and human services, community health worker and social welfare, nutrition, substance abuse, disease prevention and causation, mental and developmental health, exercise movement science specialist/ fitness professionals recreation specialists, occupational or environmental health and safety specialists, emergency response, health navigation and all occupations that promote behavior change and intervention. Students who complete these courses will receive education that will support and encourage their ability to act as positive agents of change to better personal and community health outcomes. The classes with this career pathway will focus on all of the dimensions within the academic fields of Health Education/Promotion and Public Health which include: physical, social, emotional, mental, psychological, occupational, and environmental aspects of personal and community health and well-being and the prevention of disease, disability and chronic health issues. This certificate is designed for anyone that is either currently working in a related field that would like to add this certificate to help expand their potential employability, upgrade their current work status or explore this area of study to determine interest in the AAS Public Health Education and Promotion degree program.

Learning Outcomes This certificate of completion will prepare individuals to assume roles in occupations that utilize health education, promotion and wellness in private business and industry, community organizations, and health care settings. This career pathway or certificate of completion is designed to enhance
the skills in these occupational areas: personal health/wellness coach, social and human services, community health worker and social welfare, nutrition, substance abuse, disease prevention and causation, mental and developmental health, exercise movement science specialist/fitness professionals recreation specialists, occupational or environmental health and safety specialists, emergency response, health navigation and all occupations that promote behavior change and intervention. Students who complete these courses will receive education that will support and encourage their ability to act as positive agents of change to better personal and community health outcomes. The classes within this career pathway will focus on all of the dimensions within the academic fields of Health Education/Promotion and Public Health which include; physical, social, emotional, mental, psychological, occupational, and environmental aspects of personal and community health and well-being and the prevention of disease, disability and chronic health issues.

- demonstrate skills and abilities to utilize current research, plan, develop, organize and assess materials and presentations to appropriately communicate information with individuals and the public about current individual and public/community health issues including:
  - The personal and societal determinants of health.
  - Community and interpersonal violence.
  - Personal behavior change.
  - Chronic and communicable disease causation and prevention.
  - Individual and societal impacts of Obesity, hunger, and malnourishment.
  - Drug addiction care and prevention.
  - Environmental Health issues such as air and water pollution and the connection between ecological and human health issues.
  - Social and cultural paradigms that can impact individual and community-health equity and outcomes.
  - Health-care access and issues.
  - Reproduction and sexual health including the prevention of unplanned pregnancies and sexually transmitted disease.
  - Emergency response and first aid.
  - Workplace health and safety.
  - Prevention and response related to global and community disasters.
  - Fitness and physical activity.
- demonstrate the ability to clearly articulate ideas, reasoning and confidence in public speaking.
- demonstrate computer skills with a variety of programs and databases for research, writing, web development, and organizational planning.

Admission Information Please Contact Susie Cousar, 541.463.5271 or cousars@lanecc.edu

Advising and Counseling Jessica Alvarado, 541.463.5802 or alvaradoj@lanecc.edu

Moodle Introduction to program classes.lanecc.edu/course/view.php?id=66381&section=0

Cooperative Education (Co-op) No Co-op for this certificate but some classes will have Service Learning which will require outside service at local agencies.

Job Openings Projected through 2020
Oregon: 900
Lane: 39
Oregon-Hourly: $30.01 Annual: $62,424
Lane- Hourly: $30.06 Annual: $62,524

Costs This estimate is based on the 2016/17 school year information for in state tuition, books and materials are not included.

Refer to Lane Website for the most updated information on Tuition and Fees lanecc.edu/esfs/credit-tuition

<table>
<thead>
<tr>
<th>Resident Tuition and General Student Fees</th>
<th>$3,105</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Estimated Cost</td>
<td>$3,105</td>
</tr>
</tbody>
</table>

*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
Students must take HE 252 prior to taking HE262
HE 152 Drugs, Society and Behavior................................. 3
HE 252 First Aid Responding to Emergencies........................ 3
HE 209 Human Sexuality.................................................. 3
HE 275 Lifetime Health and Fitness.................................... 4
HE 240 Holistic Health................................................... 3
HE 250 Personal Health.................................................. 3
HE 255 Global Health and Sustainability............................. 4
FN 225 Nutrition............................................................. 4

Choice of:
HE 262 First Aid 2 Beyond the Basics or
HE 251 Wilderness First Aid
HE125 Workplace Health and Safety
HE 222 Exploiting Health Consumers................................. 3

Respiratory Care
This program is being discontinued. Students currently enrolled in the program should contact Counseling and Advising at 541.463.3200 for information about completing core courses.

Retailing
This program is being discontinued. Students currently enrolled in the program should contact Counseling and Advising at 541.463.3200 for information about completing core courses.

Sustainability Coordinator
Offered by the Institute for Sustainable Practices, 541.463.5569

Associate of Applied Science Degree
Program Coordinator Mike Sims, Institute for Sustainable Practices, 541.463.5569

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 The student who successfully completes all Sustainability Coordinator requirements 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 regional, national, and international networks.
- demonstrate skills in data collection and analysis, statistical analysis, and basic mathematics.
- 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
Sustainability Coordinator - Water Conservation Technician

Students must qualify for MTH 095 and WR 121 or WR 121_H 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.

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENSC 181 Terrestrial Environment</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>GS 104 Physical Science</td>
<td>4</td>
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<tr>
<td>HE 255 Global Health and Sustainability</td>
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<tr>
<td>Choice of: WR121 Intro to Academic Composition</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>WR 121_H Intro to Academic Composition or higher</td>
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<td></td>
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<tr>
<td>ENSC 183 Aquatic Environment</td>
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<tr>
<td>BT 120 MS WORD for Business</td>
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<tr>
<td>CG 203 Human Relations at Work</td>
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<td></td>
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<tr>
<td>CH 104 Introduction to General Chemistry</td>
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<tr>
<td>BI 103J General Biology: Forest Ecology</td>
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<tr>
<td>MTH 095 Intermediate Algebra</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>BI 103M General Biology: Biodiversity and Sustainability</td>
<td>4</td>
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Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td>ENSC 182 Atmospheric Environment and Climate Change</td>
<td>4</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>MTH 105 Math in Society</td>
<td>4</td>
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<tr>
<td>PS 297 Environmental Politics</td>
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<tr>
<td>ECON 250 Class, Race and Gender in the US Economy</td>
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</tr>
<tr>
<td>CST 201 Sustainable Building Practices</td>
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<tr>
<td>WATR 202Fostering Sustainable Practices</td>
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<tr>
<td>IDS 206S Co-op Ed: Sustainability Coordinator Seminar</td>
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<tr>
<td>IDS 201 Sustainability Systems Seminar</td>
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<tr>
<td>IDS 206S Co-op Ed: Sustainability Coordinator</td>
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<tr>
<td>DRF 211 Sustainable Building Systems</td>
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<tr>
<td>ECON 260 Introduction to Environmental and Natural Resource Economics</td>
<td>4</td>
</tr>
</tbody>
</table>

Water Conservation Technician

Offered by Sustainable Practices, 541.463.6160

Associate of Applied Science Degree

Program Coordinator Roger Ebbage, Downtown Campus 404, 541.463.6160, ebbager@lanec.edu

Purpose This degree prepares individuals to evaluate water patterns; develop, implement, and maintain water conservation programs/perform public outreach; recommend water efficiency techniques; integrate alternative water sources; and perform systems analysis to solve problems. The graduate will be trained to fill positions such as Water Conservation Program Specialist, Water Resource Specialist, Stormwater Technician, Stewardship Coordinator, Resource Coordinator and many more. Jobs are in the Federal, State, Local, Non-Government and Private Sectors in both profit and non-profit venues.

Learning Outcomes The student who successfully completes all Water Conservation Technician requirements 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 and market water conservation programs to a broad audience.
- convey water conservation strategies to a broad audience using multiple communication methods.

Course Requirements

- Prerequisites are required for some courses. See course descriptions.
- All BI, DRF ECON, ENV, IDS and PS courses must be completed with a letter grade of ‘C’ or better.
- All CG, MTH, WR, and BT must be completed with a ‘C’ or better or Pass grade

Prerequisites

- 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.
• 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; hydraulic principles; quality issues; balance and time of use.
• create technical reports and collect, interpret, display and explain data.
• perform systems analysis using water bills, meters and other evidence to solve problems.

Admission Information
Roger Ebbage, Downtown Campus 404, 541.463.6160, ebbager@lanecc.edu

Advising and Counseling
Roger Ebbage, Downtown Campus 404, 541.463.6160, ebbager@lanecc.edu

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 Marvin Clemons, Cooperative Education Coordinator, Bldg. 12, Rm. 120C, clemonsrm@lanecc.edu, 541.463.3158.

Job Openings Projected through 2020
The annual projected number of openings in Oregon is growing moderately and in the future will grow rapidly along with population growth and water shortage. In addition to openings resulting from growth and awareness of water conservation needs, new positions are being created across the country, providing numerous job openings. Graduates must consider the entire nation and overseas for job placement as those that do will substantially enhance their opportunities.

Wages
In Oregon range from $32,000 to $48,500 annually plus benefits.

Costs
(estimate based on 2014-15 tuition and fees. Consult Lane’s website for updated tuition.) 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.

Program Specific Fees........................................... $1,000
Resident Tuition and General Student Fees.................. $9,816
Total Estimated Cost $10,816
*Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements
• Prerequisites are required for some courses. See course descriptions.
• All WATR courses except WATR 102 require instructor permission.

Watershed Science Technician
This program is being discontinued. Students currently enrolled in the program should contact Counseling and Advising at 541.463.3200 for information about completing core courses.

First Year
Fall
BT 123 MS EXCEL for Business................................. 4
WATR 102 Water Careers Exploration........................ 4
WST 102 Introduction to Watershed Field Methods.......... 2
GS 101 General Science (Nature of the Northwest)......... 4
Choice of:
WR 121 Academic Composition
WR 121_H Academic Composition........................... 4

Winter
WATR 101 Introduction to Water Resources................ 3
GIS 151 Digital Earth........................................... 4
MTH 095 Intermediate Algebra............................... 5
Human Relations Requirement................................ 3

Spring
WATR 105 Water Conservation: Residential................. 4
WATR 206 Co-op Ed: Water Conservation Seminar.......... 2
GIS 245 GIS 1..................................................... 4
ENVS 183 Aquatic Environment.............................. 4
WST 205 Soils Fields Methods.................................. 2
PE/Health requirement........................................ 3

Second Year
Fall
WATR 150 Water Resource Economics....................... 4
WATR 210 Water Conservation: Industrial / Commercial...... 4
WATR 261 Regional Water Policy.............................. 3
WR 227 Technical Writing.................................... 4

Winter
WATR 202 Fostering Sustainable Practices.................. 3
WATR 220 Water Conservation: Program Development...... 4
WATR 222 Stormwater Best Management Practices......... 4
WATR280 Co-op Ed: Water Conservation Technician........ 3

Spring
WATR 215 Integrated Water Management..................... 4
WATR 221 Water Mechanical Systems......................... 4
WATR280 Co-op Ed: Water Conservation Technician........ 3
Lane Community College’s mission is to provide comprehensive, accessible, quality, learning centered educational opportunities that promote student success. To honor the mission statement, we have created Transfer Guides to assist students wanting to transfer to a four-year college or university to earn a Bachelor degree.

The Transfer Guides in this section are arranged in two categories:

1. Is for students pursuing a transfer degree through Lane’s School of Arts and Sciences
2. Is for students pursuing a career technical degree through Lane’s School of Professional and Technical Careers and wanting to continue to a four-year college or university to earn a Bachelor degree.

Transferring to a 4-year institution can be complicated. There are many variables students need to be aware of when moving from an Oregon Community College to an Oregon four-year college and/or university. Lane provides major/program Academic Advising teams to help you negotiate the transfer elements. We encourage student to visit with their major/program Academic Advising team as often as needed to be successful in reaching your academic goal.

Major requirements for first- and second-year coursework vary from college to college and from academic year to year. Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges and/or universities may have a separate application process. All major courses listed in the Transfer Guides must be completed to meet lower division major requirements at the four-year institution.

It is imperative that students consult with the major Academic Advising team at Lane to assure the appropriate coursework is being chosen. For information about the Academic Advising teams, please see the “Transfer” section in this catalog. The guides are not meant as a substitute to meeting with the major Academic Advising team.

Transfer Guides in this section include various majors for specific four-year colleges and/or universities in Oregon. Lane Community College also offers courses and transfer information for students who would like to transfer to a four-year college or university that are not in the following Transfer Guides. Please meet with the Lane Academic Advising team for the major/program or four-year college you are interested in to learn about more possibilities. Lane does not endorse any specific four-year college.

To request this information in an alternate format please contact the Center for Accessible Resources at (541) 463-5150 or accessibleresources@lanecc.edu.
Lane’s School of Arts and Sciences (S.A.S.) is made up of academic divisions that emphasize a liberal arts education, engaging primarily in transfer education although integrated with selected technical and professional programs. The following divisions that make up S.A.S offer curricula traditionally associated with the humanities, social sciences, sciences, business studies, and health and physical education:

- Art
- Business and Computer Information Technology
- Health, Physical Education, and Athletics
- Language, Literature, and Communications
- Math
- Music, Dance and Theatre Arts
- Science
- Social Science

In addition, the School of Arts and Sciences has strong association with Honors and International Programs. It also supports undergraduate research, core learning outcomes, and a variety of high impact practices resulting in outstanding student educational experiences. If you are interested in obtaining a bachelors degree, then the School of Arts and Sciences has transfer degrees and programs to help you achieve your goal.

The Transfer Guides contain courses needed to complete Lane degrees, such as: the Associate of Arts Oregon Transfer (AAOT), the Associate of Science: University of Oregon (AS: UO), Associate of Science Oregon Transfer degree in Business (ASOT-Bus) or the Associate of Science: Oregon State University (AS: OSU). Each of the Transfer Guides contain requirements for a specific major to one specific four-year college and/or university and the general education requirements for one of the Lane degrees listed above.

We also offer Associate of Science Oregon Transfer (ASOT) degrees in Business and Computer Science that fulfill the general education requirements for all public universities in the state. Business is a highly competitive, limited enrollment major at most four-year colleges and/or universities and completion of the ASOT in Business alone does not assure you have met the major requirements. Students must meet with the Lane major Academic Advising team to assure all requirements for the major have been met.

Major requirements for first- and second-year coursework vary from college/university to college/university and from academic year to year. Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges and/or universities may have a separate application process. All major courses listed below in the Transfer Guides must be completed to meet lower division major requirements at the four year college and/or university.

It is imperative that students consult with the major Academic Advising team at Lane to assure the appropriate coursework is being chosen. For information about the Academic Advising teams, please see the “Transfer” section in this catalog. The Guides are not meant as a substitute for meeting with the Academic Advising team for the major.

Transfer Guides in this section include various majors for specific four-year colleges and/or universities in Oregon. Lane Community College offers courses and transfer information for transfer majors and/or four-year colleges that may not, at this time, be listed in the catalog. Please meet with the Lane Academic Advising team for the major/program or four-year college or university you are interested in to determine more possibilities. Lane does not endorse any specific four-year college.
Transfer Guides

Animal Sciences, pre-vet option

Transfer Guide for Associate of Science: Oregon State University Degree

This Transfer Guide is for students transferring to Oregon State University only with a major in Animal Sciences

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing an Animal Sciences major at Oregon State University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Science: Oregon State University degree. Completing all courses may take more than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are guaranteed junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective Transfer (UO/OSU) will fulfill many lower division general education requirements and are guaranteed 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework. Prerequisites are required for some courses. See course descriptions.

See Associate of Science: Oregon State University degree requirements for approved Discipline Studies.

Associate of Science: Oregon State University courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four-year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising team, please see the “Transfer” section in this catalog.

Transfer Guide for Animal Sciences, pre-vet option with Associate of Science: Oregon State University degree

<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>MTH 112 Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MTH 243 Intro to Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one course:</td>
<td></td>
</tr>
<tr>
<td>MTH 241 Elementary Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 251 Differential Calculus</td>
<td>5</td>
</tr>
<tr>
<td>BI 211 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>BI 213 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>Z 213 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>BI 234 Introductory Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BA 226 Business Law</td>
<td>4</td>
</tr>
<tr>
<td>CH 221 General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CH 222 General Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>CH 223 General Chemistry 3</td>
<td>5</td>
</tr>
<tr>
<td>CH 241 Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CH 242 Organic Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>CH 243 Organic Chemistry 3</td>
<td>5</td>
</tr>
<tr>
<td>PH 201 General Physics 1</td>
<td>5</td>
</tr>
<tr>
<td>PH 202 General Physics 2</td>
<td>5</td>
</tr>
</tbody>
</table>

Remaining requirement for Associate of Science: Oregon State University Degree

- Writing I – see AS: OSU approved listing: 3-4 credits
- Writing II – see AS: OSU approved listing: 3-4 credits
- Writing III/Speech – see AS: OSU approved listing: 3-4 credits
- HE 275 Lifetime Health and Fitness: 3 credits
- Western Culture - see AS: OSU approved listing: 3-4 credits
- Cultural Diversity – see AS: OSU approved listing: 3-4 credits
- Literature and the Arts – see AS: OSU approved listing: 3-4 credits
- Social Processes and Institutions – see approved AS: OSU approved listing: 3-4 credits

Difference, Power and Discrimination – see AS: OSU approved listing: 3-4 credits

1Taking CH 241-243 at Lane will satisfy OSU's Biology major requirement but student will receive lower-division credit at OSU. Upon passing the American Chemical Society (ACS) organic chemistry equivalency test offered to Lane students after completion of CH 243, students can receive up to 15 credits of upper-division organic chemistry credits at OSU.

2While PH 203 is not a requirement for the Animal Sciences major, many vet schools require a full year of Physics

Anthropology

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in Anthropology

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college, and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing Anthropology major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer (AAOT) degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students 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 allow
Students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer (AAOT) degree requirements for approved Arts and Letters, Communication, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer (AAOT) degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Anthropology with Associate of Arts Oregon Transfer (AAOT) degree

ANTH 101 Physical Anthropology ........................................ 4
ANTH 102 World Archaeology ........................................ 4
ANTH 103 Cultural Anthropology ........................................ 4

Remaining Requirements for Associate of Arts Oregon Transfer (AAOT) degree

WR 121 plus WR 122 ........................................................... 8
Health/Wellness/Fitness – see AAOT listing for approved courses ........................................................... 3-4
Oral Communication – see AAOT
Communication listing ........................................................... 4
Cultural Literacy – see AAOT Cultural Literacy listing ........ 3-4
Arts & Letters – see AAOT approved Arts and Letters listing ........................................................... 9-12
Social Sciences – see AAOT approved Social Science listing ........................................................... 6-8
Sciences – see AAOT approved listing for 3 lab sciences ........................................................... 12-15
Electives – credits needed to bring total to 90, within limitations of AAOT

Art

Associate of Science: University of Oregon (AS: UO) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in Art

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing an Art major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Science: University of Oregon degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer - Bus/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Science: University of Oregon degree requirements for approved Discipline Studies courses. Associate of Science: University of Oregon courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Art major with Associate of Science: University of Oregon degree

These courses must be completed prior to enrolling in other studio courses at UO:

ART 115 Basic Design: Fundamentals .................................... 3
ART 117 Basic Design: 3 Dimensional .................................. 3
Any one course from: ART 131, 134, 231, 234 Drawing.......... 3

Additional required courses for the major

Any three courses chosen from: ............................................. 9
ART 204, 205, 206 History of Western Art
ART 207, 208, 209 History of Asian Art
ARH 111 Intro to Visual Arts
ARH 113, 213 History of Photography 1, 2
ARH 200 Graphic Design History
ARH 202 Survey of Western Art
ARH 203 Survey of American Indian Art
ARH 211, 212 Survey of Visual Art
ARH 214 American Art
ARH 217 Islamic Art
Choice of two different curricular areas with only one course per area: ................................................. 6
Photography ART 261 or 262
Ceramics ART 250 or 251 or 253
Painting ART 281 or 284
Sculpture ART 248 or 276 or 277 or 278 or 291 or 293
Printmaking ART 270 or 271 or 273 or 274 or 275 or 285

Associate of Science: University of Oregon degree remaining requirements

WR 121 plus WR 122 or WR 123 ............................................. 8
Math 105 or college-level Math course with prerequisite of Math 95 ........................................... 4–5
Arts and Letters – see AS: UO approved
Arts and Letters listing ............................................. 6
Social Sciences – see AS: UO approved
Social Science listing ................................................ 15
Sciences – see AS: UO listing ...................................... 15
Electives – see limitations on AS: UO and credits needed to bring total to 90 transfer credit

Biochemistry

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in Biochemistry

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing Biochemistry major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses; One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer courses must be completed with a minimum grade of Pass or C with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the "Transfer" section in this catalog.

Transfer Guide for Biochemistry with Associate of Arts Oregon Transfer degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Math 251 Differential Calculus</td>
<td>5</td>
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<tr>
<td>Math 252 Integral Calculus</td>
<td>5</td>
</tr>
<tr>
<td>Math 253 Infinite Series &amp; Sequences</td>
<td>5</td>
</tr>
<tr>
<td>CH 221 General Chemistry 1</td>
<td>5</td>
</tr>
<tr>
<td>CH 222 General Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>CH 223 General Chemistry 3</td>
<td>5</td>
</tr>
<tr>
<td>CH 241 Organic Chemistry 1*</td>
<td>5</td>
</tr>
<tr>
<td>CH 242 Organic Chemistry 2*</td>
<td>5</td>
</tr>
<tr>
<td>CH 243 Organic Chemistry 3*</td>
<td>5</td>
</tr>
<tr>
<td>PH 201 General Physics 1</td>
<td>5</td>
</tr>
<tr>
<td>PH 202 General Physics 2</td>
<td>5</td>
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<td>PH 203 General Physics 3</td>
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Remaining requirements to complete Associate of Arts Oregon Transfer degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WR 121, plus WR 122 or WR 227</td>
<td>8</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – see AAOT listing for approved courses</td>
<td>3</td>
</tr>
<tr>
<td>Oral Communications – see AAOT Communication requirement listing</td>
<td>3–4</td>
</tr>
<tr>
<td>Cultural Literacy – see AAOT Cultural Literacy requirement listing</td>
<td>3–4</td>
</tr>
<tr>
<td>Social Sciences – see AAOT approved</td>
<td>9–12</td>
</tr>
</tbody>
</table>

Social Science listing ........................................ 12–16

*Taking CH 241-243 at Lane will satisfy UO’s Biology major requirement but student will receive lower-division credit at UO. Upon passing the American Chemical Society (ACS) organic chemistry equivalency test offered to Lane students after completion of CH 243, students can receive up to 15 credits of upper-division organic chemistry credits at UO.

Biology

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in Biology

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing Biology major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted junior status for registration purposes.
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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement. Associate of Arts Oregon Transfer courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information.

For information about the Academic Advising teams, please see the "Transfer" section in this catalog.

### Transfer Guide for Biology with Associate of Arts Oregon Transfer degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 251 Differential Calculus</td>
<td>5</td>
</tr>
<tr>
<td>Math 252 Integral Calculus</td>
<td>5</td>
</tr>
<tr>
<td>BI 211 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>BI 212 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>BOT/Z 213 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>CH 221 General Chemistry 1</td>
<td>5</td>
</tr>
<tr>
<td>CH 222 General Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>CH 223 General Chemistry 3</td>
<td>5</td>
</tr>
<tr>
<td>CH 241 Organic Chemistry 1*</td>
<td>5</td>
</tr>
<tr>
<td>CH 242 Organic Chemistry 2*</td>
<td>5</td>
</tr>
<tr>
<td>CH 243 Organic Chemistry 3*</td>
<td>5</td>
</tr>
<tr>
<td>PH 201 General Physics 1</td>
<td>5</td>
</tr>
<tr>
<td>PH 202 General Physics 2</td>
<td>5</td>
</tr>
<tr>
<td>PH 203 General Physics 3</td>
<td>5</td>
</tr>
<tr>
<td>Remaining requirements to complete Associate of Arts Oregon Transfer degree</td>
<td></td>
</tr>
<tr>
<td>WR 121, plus WR 122 or WR 227</td>
<td>8</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – see AAOT listing for approved courses</td>
<td>3-4</td>
</tr>
<tr>
<td>Oral Communications – see AAOT Communication requirement listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Cultural Literacy – see AAOT Cultural Literacy requirement listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Arts and Letters – see AAOT approved Arts and Letters listing</td>
<td>9-12</td>
</tr>
<tr>
<td>Social Sciences – see AAOT approved Social Science listing</td>
<td>12-16</td>
</tr>
</tbody>
</table>

*Taking CH 241-243 at Lane will satisfy UO’s Biology major requirement but student will receive lower-division credit at UO. Upon passing the American Chemical Society (ACS) organic chemistry equivalency test offered to Lane students after completion of CH 243, students can receive up to 15 credits of upper-division organic chemistry credits at UO.

### Business Administration

#### Transfer Guide for Associate of Science Oregon Transfer Business (ASOT Bus) degree

This Transfer Guide is for students transferring to Eastern Oregon University with a major in Business Administration only.

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Business Administration major at the Eastern Oregon University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Science Oregon Transfer Business (ASOT Bus). Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits and include specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer-Business/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective college (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated or received a GED in 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 Associate of Science Oregon Transfer Business degree requirements for approved Foundational Skills and/or Discipline Studies courses.

Associate of Science Oregon Transfer Business degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

### Transfer Guide for Business Administration major with Associate of Science Oregon Transfer Business degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 101 Intro to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA 211 Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA 213 Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA 206 Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BA 223 Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA 226 Business Law</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one:</td>
<td></td>
</tr>
<tr>
<td>CIS 101 Computer Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CS 120 Concepts of Computing</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one:</td>
<td></td>
</tr>
<tr>
<td>MTH 111 College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>MTH 241 Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>
MTH 243 Probability and Statistics ........................................ 4
ECON 200, 201 and 202 Economics ........................................ 9
WR 121 English Composition ............................................. 4
WR 227 Technical Writing .................................................. 4

Remaining requirements for the Associate Sciences Oregon Transfer Business degree
Math 105 or college-level Math course with prerequisite of Math 95 ........................................ 4 – 5
Oral Communications – see ASOT Bus Communication requirement listing ............................ 3 – 4
Cultural Literacy – chosen from classes designated with * on ASOT Bus .................................................. 9 – 12
Arts and Letters – see ASOT Bus approved Arts and Letters listing .................................................. 3 – 4
Social Sciences – see ASOT Bus approved Social Science listing .................................................. 15 – 19
Electives – see limitations on ASOT Bus and to bring total to 90 transfer credits

Business Administration

Transfer Guide Associate of Arts Oregon Transfer degree (AAOT)
This Transfer Guide is for students transferring to Northwest Christian University with a major in Business Administration only.

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Business Administration major at Northwest Christian University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years. Transfer degrees require a total of 90 transferable credits and include specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Business/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science Direct Transfer: UO (AS: UO) degree or the Associate of Science Direct Transfer: OSU (AS: OSU) students admitted to each respective college (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated or received a GED in 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 Associate of Arts Oregon Transfer degree requirements for approved Foundational Skills and/or Discipline Studies courses.

Associate of Arts Oregon Transfer degree courses must be completed with a minimum grade of Pass or C-with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Business Administration major with Associate of Arts Oregon Transfer degree:

BA 101 Intro to Business .................................................. 4
BA 211 Financial Accounting ............................................. 4
BA 213 Managerial Accounting .......................................... 4
ECON 200, 201 and 202 Economics .................................... 9
Math 243 Probability and Statistics .................................... 4

Remaining requirements for the Associate of Arts Oregon Transfer Degree
WR 121 plus WR 122 or WR 227 ......................................... 8
Health/Wellness/Fitness – see AAOT listing for approved courses .................................................. 3 – 4
Oral Communications – see AAOT Communication requirement listing ........................................ 4
Cultural Literacy – chosen from classes designated with an * on AAOT list ........................................ 3 – 4
Arts and Letters – see AAOT approved Arts and Letters listing .................................................. 9 – 12
Social Sciences – see AAOT approved Social Science listing .......................................................... 3 – 4
Electives – see AAOT approved Social Science listing .................................................. 15 – 19

Business and Accounting, OSU

Transfer Guide for Associate of Science Oregon Transfer Business (ASOT Bus) degree
This Transfer Guide is for students transferring to Oregon State University only with a major in Business or Accounting

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Business or Accounting major at the Oregon State University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Science Oregon Transfer Business degree. Completing all courses may take longer than two years.

Transfere require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/ C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted junior status

BA 101 Intro to Business .................................................. 4
BA 211 Financial Accounting ............................................. 4
BA 213 Managerial Accounting .......................................... 4
ECON 200, 201 and 202 Economics .................................... 9
Math 243 Probability and Statistics .................................... 4

remaining requirements for the Associate of Arts Oregon Transfer Degree
WR 121 plus WR 122 or WR 227 ......................................... 8
Health/Wellness/Fitness – see AAOT listing for approved courses .................................................. 3 – 4
Oral Communications – see AAOT Communication requirement listing ........................................ 4
Cultural Literacy – chosen from classes designated with an * on AAOT list ........................................ 3 – 4
Arts and Letters – see AAOT approved Arts and Letters listing .................................................. 9 – 12
Social Sciences – see AAOT approved Social Science listing .......................................................... 3 – 4
Electives – see AAOT approved Social Science listing .................................................. 15 – 19
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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Science Oregon Transfer Business degree requirements for approved Arts and Letters, Science and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Science Oregon Transfer Business degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation. Grading options and GPA requirements for majors may differ from degree requirements.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Business and Accounting with Associate of Science Oregon Transfer Business degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 101 Intro to Business</td>
<td>4</td>
</tr>
<tr>
<td>CIS 101 Computer Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BA 211 Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA 213 Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA 226 Business Law</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one:</td>
<td></td>
</tr>
<tr>
<td>COMM 111 Fundamentals of Speech</td>
<td></td>
</tr>
<tr>
<td>COMM 112 Persuasive Speech</td>
<td></td>
</tr>
<tr>
<td>ECON 200, 201 and 202 Economics</td>
<td>9</td>
</tr>
<tr>
<td>MTH 241 Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MTH 243 Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 English Composition</td>
<td>4</td>
</tr>
<tr>
<td>WR 122 OR WR 227 English Composition</td>
<td>4</td>
</tr>
</tbody>
</table>

Remaining requirements for Associate of Science Oregon Transfer Business degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 111 or college level math course with prerequisite of MTH 095</td>
<td>4-5</td>
</tr>
<tr>
<td>Cultural Literacy – chosen from classes designated with * on ASOT list</td>
<td>4</td>
</tr>
<tr>
<td>Arts and Letters – see ASOT Bus approved Arts and Letters list</td>
<td>9-12</td>
</tr>
<tr>
<td>Social Sciences – see ASOT Bus approved Arts and Letters list</td>
<td>3-4</td>
</tr>
<tr>
<td>Sciences – see ASOT Bus approved 3 lab and 1 non lab Science listing</td>
<td>15-19</td>
</tr>
<tr>
<td>Electives – credits needed to bring total to 90 transfer credits</td>
<td></td>
</tr>
</tbody>
</table>

Business and Accounting, PSU

Transfer Guide for Associate of Arts Oregon Transfer degrees (AAOT)

This Transfer Guide is for students transferring to Portland State University with majors in Business and Accounting only.

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Business and Accounting majors at the Portland State University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits and include specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Business/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective college (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated or received a GED in 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 Associate of Arts Oregon Transfer degree requirements for approved Foundational Skills and/or Discipline Studies courses. Associate of Arts Oregon Transfer courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation. Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Business and Accounting majors with Associate of Arts Oregon Transfer degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 101 Intro to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA 211 Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA 213 Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>COMM 111 Public Speaking</td>
<td></td>
</tr>
<tr>
<td>ECON 200, 201 and 202 Economics</td>
<td>9</td>
</tr>
<tr>
<td>MTH 243 Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 English Composition</td>
<td>4</td>
</tr>
<tr>
<td>Additional requirements for Accounting majors PS 201 and 202 American Government</td>
<td>6</td>
</tr>
<tr>
<td>ANTH, PSY or SOC 100 or higher</td>
<td>4</td>
</tr>
<tr>
<td>Remaining requirements for the Associate of Arts Oregon Transfer Degree</td>
<td></td>
</tr>
<tr>
<td>WR 122 OR WR 227</td>
<td>4</td>
</tr>
<tr>
<td>Health/Wellness/Fitness-see AAOT listing for approved courses</td>
<td>3-4</td>
</tr>
</tbody>
</table>
## Computer Information Science

### Transfer Guide for Associate of Science Oregon Transfer Computer Science (ASOT-CS) degree

**This Transfer Guide is for students transferring to the University of Oregon only with a major in Computer Information Science**

**NOTE:** All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Computer Information Science major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/CS degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes.

With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

**Students who graduated high school or received a GED in 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 coursework.**

Prerequisites are required for some courses. See course descriptions.

See Associate of Science Oregon Transfer Computer Science degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the ASOT-CS Cultural Literacy (**) requirement.

ASOT-CS courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to 90 transfer credits.

### Electives

- 2 Additional Math courses from the following:
  - MTH 231 Discrete Math 1*
  - MTH 252 Integral Calculus **
  - MTH 231 Discrete Math 2*
  - WR 227 Technical Writing
  - WR 221 English Composition
- MTH 265 Statistics for Scientists and Engineers
- MTH 280 Linear Algebra
- MTH 265 Statistics for Scientists and Engineers
- WR 121 English Composition
- Health/Wellness/Fitness – see AAOT listing for approved courses
- Oral Communications – see AAOT Communication requirement listing
- Cultural Literacy – see AAOT Cultural Literacy requirement listing
- Arts and Letters – see AAOT approved Arts and Letters listing
- Social Sciences – see AAOT approved Social Science listing
- Electives – see limitations on AAOT and credits needed to bring total to 90 transfer credits
  - * must be completed with a B- or higher
  - ** must be completed with a C or higher

### Remaining requirements of Associate of Arts Oregon Transfer degree

- WR 221, BI 211, BI 212, BOT/Z 213 Biology/Botany/Zoology or CH 221, CH 222, CH 223 Chemistry or PH 201, PH 202, PH 203 Physics or PH 211, PH 212, PH 213 Physics or G 201, G 202 Geology or G 203 Geology or PSY 201, PSY 203 Psychology

### Business and Accounting - Computer Information Science - Dance

**This Transfer Guide is for students transferring to the University of Oregon only with a major in Computer Information Science.**

For information about the Academic Advising team, please see the “Transfer” section in this catalog.

**Transfer Guide for Computer Information Science with Associate of Arts Oregon Transfer degree**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 160 Intro to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CS 161C+ Beg. Programming C+++</td>
<td>4</td>
</tr>
<tr>
<td>CS 162C+ Beg. Programming C+++</td>
<td>4</td>
</tr>
<tr>
<td>CS 260 Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 262C Programming - C</td>
<td>5</td>
</tr>
<tr>
<td>WR 227 Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>MTH 252 Integral Calculus **</td>
<td>5</td>
</tr>
<tr>
<td>MTH 231 Discrete Math 1*</td>
<td>4</td>
</tr>
<tr>
<td>MTH 232 Discrete Math 2*</td>
<td>4</td>
</tr>
<tr>
<td>2 Additional Math courses from the following:</td>
<td>8-9</td>
</tr>
<tr>
<td>MTH 253 Inﬁnite Series &amp; Sequences</td>
<td></td>
</tr>
<tr>
<td>MTH 260 Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MTH 265 Statistics for Scientists and Engineers</td>
<td></td>
</tr>
<tr>
<td>Choose 1 science sequence (3 terms):</td>
<td>12-15</td>
</tr>
<tr>
<td>BI 211, BI 212, BOT/Z 213 Biology/Botany/Zoology or CH 221, CH 222,</td>
<td></td>
</tr>
<tr>
<td>CH 223, BI 211, BI 212, BI 213 Physics or BI 211, BI 212, BI 213</td>
<td></td>
</tr>
<tr>
<td>Physics or G 201, G 202, G 203 Geology or G 201, G 202 Geology or</td>
<td></td>
</tr>
<tr>
<td>PSY 201, PSY 203 Psychology</td>
<td></td>
</tr>
</tbody>
</table>

**Remaining requirements of Associate of Arts Oregon Transfer degree**

**WR 121 English Composition**

- 4 credits
**Health/Wellness/Fitness – see AAOT listing**

- 3 credits
- Oral Communications – see AAOT Communication requirement listing

- 3 credits
- Cultural Literacy – see AAOT Cultural Literacy requirement listing

- 9-12 credits
- Arts and Letters – see AAOT approved Arts and Letters listing

- 12-16 credits
- Social Sciences – see AAOT approved Social Science listing

- Electives – see limitations on AAOT and credits needed to bring total to 90 transfer credits

- * must be completed with a B- or higher
- ** must be completed with a C or higher

### Dance

**Associate of Arts Oregon Transfer (AAOT) degree**

**This Transfer Guide is for students transferring to Western Oregon University only with a major in Dance**

**NOTE:** All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Dance major at the Western Oregon University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Art Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

**Students who graduated high school or received a GED in 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 coursework.**

Prerequisites are required for some courses. See course descriptions.

See Associate of Science Oregon Transfer Computer Science degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the ASOT-CS Cultural Literacy (**) requirement.

ASOT-CS courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to 90 transfer credits.

### Electives

- 3-4 credits
- Remaining requirements of Associate of Arts Oregon Transfer degree

### Dance

**Associate of Arts Oregon Transfer (AAOT) degree**

**This Transfer Guide is for students transferring to Western Oregon University only with a major in Dance**

**NOTE:** All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Dance major at the Western Oregon University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Art Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

**Students who graduated high school or received a GED in 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 coursework.**

Prerequisites are required for some courses. See course descriptions.

See Associate of Science Oregon Transfer Computer Science degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the ASOT-CS Cultural Literacy (**) requirement.

ASOT-CS courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to 90 transfer credits.

### Electives

- 3-4 credits
- Remaining requirements of Associate of Arts Oregon Transfer degree

### Transfer Guide
admission to a specific major. Oregon public universities allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Art Oregon Transfer degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy requirement.

Associate of Arts Oregon Transfer degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Dance majors with Associate Oregon Transfer degree

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>D 251 Looking at Dance</td>
</tr>
<tr>
<td>D 257 Dance Improvisation</td>
</tr>
<tr>
<td>D 160 Dance Composition</td>
</tr>
<tr>
<td>D 256 Anatomy/Body Fundamentals</td>
</tr>
<tr>
<td>D 261 Rehearsal and Performance</td>
</tr>
<tr>
<td>D 260 Group Choreography</td>
</tr>
</tbody>
</table>

Maximum of 12 credits: D177, D 178, D 179 Modern Dance 1, 2 3 |

Maximum of 6 credits: D 185, D 186, D 187 Ballet 1, 2, 3 |

Maximum of 6 credits: D 188, D 189 Jazz Dance 1,2; D184, D 194 Hip Hop 1,2; D 196 Balinese

Remaining requirements for Associate of Arts Oregon Transfer Degree

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 plus WR 122 or WR 227</td>
</tr>
<tr>
<td>Math 105 or college-level Math course with prerequisite of Math 95</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – see AAOT listing for approved courses</td>
</tr>
<tr>
<td>Oral Communications – see AAOT Communication requirement listing</td>
</tr>
<tr>
<td>Cultural Literacy – see AAOT Cultural Literacy requirement listing</td>
</tr>
<tr>
<td>Arts and Letters – see AAOT approved Arts and Letters listing</td>
</tr>
<tr>
<td>Social Sciences – see AAOT approved Social Science listing</td>
</tr>
<tr>
<td>Sciences – see AAOT approved 3 lab and 1 non lab Science listing</td>
</tr>
</tbody>
</table>

Early Childhood Development and Early Childhood Education

Transfer Guide for Associate of Applied Science (AAS) degree

This Transfer Guide is for students transferring to Southern Oregon University only with a major in Early Childhood Development

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements – these are obtained through your Lane Academic Advising team.

Lane offers students the option to transfer toward a Bachelor degree after completing an Associate of Applied Science (AAS) degree for specific majors going into specific four-year college majors. This enables students to use a greater number of Career Technical courses toward a Bachelor Degree.

This Transfer Guide is for students transferring to Southern Oregon University with a major in Early Childhood Development. Students must meet all admission requirements for the four-year college. Students must also complete all coursework listed below. General Education requirements for the specific four-year college can be completed either at that specific university or with an Associate degree for transfer. For more information about these options, please meet with your program/major Academic Advising team.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions. Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for students with Lane’s Associate of Applied Science in Early Childhood Education

Additional Major Coursework Includes:

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 111 Fundamentals of Public Speaking</td>
</tr>
<tr>
<td>COMM 218 Interpersonal Communication</td>
</tr>
<tr>
<td>MTH 105 Introduction to Contemporary Math or Higher</td>
</tr>
<tr>
<td>WR 121 English Composition</td>
</tr>
<tr>
<td>WR 122 Composition Style &amp; Argument</td>
</tr>
<tr>
<td>WR 227 Technical Report Writing</td>
</tr>
<tr>
<td>Arts and Letters AIL, ART, COMM, CW, D, ENG, FA, FR, GS, HUM, MUS, PH, REL, SPAN, TA and WR</td>
</tr>
</tbody>
</table>

See Academic Advisor for details.

Social Science Specific Courses within ANTH, BA, CG, CJ, CJA, ECON, ES, GEOG, HE, HST, PS, PSY, REL, SOC and WS. (Note: CG 203 or ANTH 103 will count towards total) 9-12

See Academic Advisor for details.

Science (At least 2 Science courses must have labs.) 11-15

Specific Courses within ASTR, BI, BOT, CH, ENVS, G, GS, PH, Z

See Academic Advisor for details.

Economics

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in Economics

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college, and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is
not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing an Economics major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer (AAOT) degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer (AAOT) degree requirements for approved Arts and Letters, Communication, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer (AAOT) degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four-year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the "Transfer" section in this catalog.

Transfer Guide for Economics with Associate of Arts Oregon Transfer (AAOT) degree

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200 Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201 Principles of Economics: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202 Principles of Economics: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 243 Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one sequence – check with Academic Advising team for best option:</td>
<td></td>
</tr>
<tr>
<td>MTH 241 and 242 Elementary Calculus 1, 2 and</td>
<td>8</td>
</tr>
<tr>
<td>-OR-</td>
<td></td>
</tr>
<tr>
<td>MTH 251, 252, and 253 Calculus 1, 2 and 3</td>
<td>15</td>
</tr>
</tbody>
</table>

Remaining Requirements for Associate of Arts Oregon Transfer (AAOT) degree

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 plus WR 122</td>
<td>8</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – see AAOT listing for approved courses</td>
<td>3-4</td>
</tr>
<tr>
<td>Oral Communication – see AAOT</td>
<td></td>
</tr>
<tr>
<td>Communication listing</td>
<td>4</td>
</tr>
<tr>
<td>Cultural Literacy – see AAOT Cultural Literacy listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Arts &amp; Letters – see AAOT approved Arts and Letters</td>
<td>9-12</td>
</tr>
<tr>
<td>Social Sciences – see AAOT approved</td>
<td></td>
</tr>
<tr>
<td>Social Science listing</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Sciences – see AAOT approved listing for 3 lab sciences ........................................................................................................ 12-15
Electives-credits needed to bring total to 90, within limitations of AAOT

Education - Double Degree

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to Oregon State University with a major in Education - Double Degree only.

With this major/program, students are required to choose and complete additional requirements for a primary major outside of Education.

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing an Education - Double Degree major at Oregon State University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits and include specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer-Business/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective college (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated or received a GED in 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 Associate of Arts Oregon Transfer degree requirements for approved Foundational Skills and/or Discipline Studies courses.

Associate of Arts Oregon Transfer degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four-year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the "Transfer" section in this catalog.
Transfer Guide for Education - Double Degree major with Associate Arts Oregon Transfer degree. Students are required to choose and complete additional requirements for a primary major outside of Education for this program. 

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 English Composition</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one:</td>
<td>4</td>
</tr>
<tr>
<td>WR 122 Composition: Argument and Style</td>
<td></td>
</tr>
<tr>
<td>WR 227 Technical Report Writing</td>
<td></td>
</tr>
<tr>
<td>Choice of two:</td>
<td>8</td>
</tr>
<tr>
<td>ENG 100 Children's Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 104 Intro to Literature: Fiction</td>
<td></td>
</tr>
<tr>
<td>ENG 106 Intro to Literature: Poetry</td>
<td></td>
</tr>
<tr>
<td>ENG 107 Survey Of World Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 109 Survey Of World Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 151 Black American Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 201 Shakespeare</td>
<td></td>
</tr>
<tr>
<td>ENG 203 Shakespeare</td>
<td></td>
</tr>
<tr>
<td>ENG 204 Survey of British Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 205 Survey of British Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 250 Intro to Folklore and Mythology</td>
<td></td>
</tr>
<tr>
<td>Any ART, MUS, or TA. Strongly Suggested:</td>
<td>3</td>
</tr>
<tr>
<td>MUS 101 Music Fundamentals or</td>
<td></td>
</tr>
<tr>
<td>ART 111 Intro to Visual Arts</td>
<td></td>
</tr>
<tr>
<td>Choice of one:</td>
<td>4</td>
</tr>
<tr>
<td>COMM 111 Public Speaking</td>
<td></td>
</tr>
<tr>
<td>COMM 112 Persuasive Speech</td>
<td></td>
</tr>
<tr>
<td>COMM 218 Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td>Choice of one:</td>
<td>4</td>
</tr>
<tr>
<td>HST 201 or 202 or 203 US History</td>
<td></td>
</tr>
<tr>
<td>Choice of one:</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201, ECON 202 Economics</td>
<td></td>
</tr>
<tr>
<td>PS 201 PS 202 American Government</td>
<td></td>
</tr>
<tr>
<td>PS 204 Intro to Comparative Politics</td>
<td></td>
</tr>
<tr>
<td>ED 280 Co-operative Education</td>
<td>3</td>
</tr>
<tr>
<td>HDFS 226 Child Development</td>
<td>3</td>
</tr>
<tr>
<td>MTH 211, 212 and 213 Fundamentals of</td>
<td></td>
</tr>
<tr>
<td>Elementary Math</td>
<td></td>
</tr>
<tr>
<td>BIO 101 Survey of Biology</td>
<td>4</td>
</tr>
<tr>
<td>G 101 Geology</td>
<td></td>
</tr>
<tr>
<td>Choice of one:</td>
<td>4</td>
</tr>
<tr>
<td>BIO 102, 103 Survey of Biology</td>
<td></td>
</tr>
<tr>
<td>G 102, 103 Geology</td>
<td></td>
</tr>
</tbody>
</table>

Students may be able to use primary major requirements to fulfill some of these requirements. Remaining requirements for the Associate of Arts Oregon Transfer degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health/Wellness/Fitness - see AAOT listing for approved courses</td>
<td>3 - 4</td>
</tr>
<tr>
<td>Cultural Literacy - see AAOT listing for approved courses</td>
<td>3 - 4</td>
</tr>
<tr>
<td>Social Sciences - see AAOT listing for approved courses</td>
<td>6 - 8</td>
</tr>
<tr>
<td>Electives - credits needed to bring total to 90 within limitations of AAOT</td>
<td></td>
</tr>
</tbody>
</table>

Education: Early Childhood Teaching Preparation

Transfer Guide for Associate of Arts Oregon Transfer degree

This Transfer Guide is for students transferring to Western Oregon University with a major in Early Childhood Education (Teaching Age 3-Grade 4) only.

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Elemen-tary Education and Early Childhood Education major at Western Oregon University. The general education and major courses in the Transfer Guide meet the requirements for the Associates of Arts Oregon Transfer. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits and include specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Business/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science Direct Transfer: UO (AS: UO) degree or the Associate of Science Direct Transfer: OSU (AS: OSU) students admitted to each respective college (UO/OSU) will fulfilled many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated or received a GED in 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 Associates of Arts Oregon Transfer degree requirements for approved Foundational Skills and/or Discipline Studies courses.

Associates of Arts Oregon Transfer courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Early Childhood Education: Teaching Preparation major with Associates of Arts Oregon Transfer.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 105 Health and Safety Issues in ECE</td>
<td>2</td>
</tr>
<tr>
<td>ECE 120 Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>or ECE 140 Practicum</td>
<td>3</td>
</tr>
<tr>
<td>ECE 150 Creative Activities for Children</td>
<td>3</td>
</tr>
<tr>
<td>ECE 170 Infants and Toddlers Development</td>
<td>4</td>
</tr>
<tr>
<td>ECE 250 Infant and Toddler Environments</td>
<td>4</td>
</tr>
<tr>
<td>HDFS 226 Child Development</td>
<td>3</td>
</tr>
<tr>
<td>MTH 211, 212, 213 Foundational Elementary</td>
<td>12</td>
</tr>
<tr>
<td>Math I, II, &amp; III</td>
<td></td>
</tr>
<tr>
<td>BI 101 General Biology</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one:</td>
<td>4</td>
</tr>
<tr>
<td>ENG 104, 105 or 106 Introduction to Literature</td>
<td></td>
</tr>
<tr>
<td>Choice of two:</td>
<td>8</td>
</tr>
<tr>
<td>GS 104, 105 or 106 Physical Science</td>
<td></td>
</tr>
<tr>
<td>Choice of one:</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201 or 202 Principles of Economics</td>
<td></td>
</tr>
<tr>
<td>Choice of two:</td>
<td></td>
</tr>
<tr>
<td>HST 201, 202, 203 History of the United States</td>
<td>8</td>
</tr>
<tr>
<td>GEOG 141 Natural Environment</td>
<td>4</td>
</tr>
<tr>
<td>PS 204 US Government &amp; Policy</td>
<td>4</td>
</tr>
<tr>
<td>COMM 111 Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>WR 122 Composition: Argument, Style and Research</td>
<td>4</td>
</tr>
</tbody>
</table>
Choice of one: .......................................................... 3-4
PHL 201, 202, 203, 205, 221, REL 201 or REL 203
Choose nine credits total: .................................................. 9
ART 115, ART 131, D 152, D 173, D 175, D 178, C 184, D 185, D 186, D 188, D 199, TA 141, TA 153, TA 227,
TA 253, TA 280, MUS 101, MUS 108, MUS 134, MUS 135,
MUS 201, MUS 202, MUS 203, MUS 205, MUS 264, MUS 295, MUS 296, or MUS 297
HE 275 Lifetime Health and Fitness.................................. 3
Choice of any 1 credit PE .................................................. 1
CS 120 Concepts of Computing........................................... 4
Students may be able to use primary major requirements to fulfill
some of these requirements. Remaining requirements for the
Associate of Arts Oregon Transfer degree:
WR 121 English Composition............................................ 4
Cultural Literacy - see AAOT listing for approved Cultural Literacy
courses......................................................... 3-4

Elementary Education and Early Childhood Education

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to Pacific University only with a major in Education

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing an Elementary Education and Early Childhood Education major at the Pacific University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer - Bus/ C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.
Prerequisites are required for some courses. See course descriptions.
See Associate of Arts Oregon Transfer degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer degree courses must be completed with a minimum grade of Pass or C-. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Elementary Education and Early Childhood Education with Associate of Arts Oregon Transfer degree

Choice of three to four courses in the following subjects that are also approved to fulfill AAOT Social Science requirement: ................................................................. 12
ANTH, ECON, GS, GEOG, PS, PSY, SOC
Recommended: PHL 201 or higher, HST 201, PS 201, SOC 204
Choice of one sequence - see Academic Advising team for possible proficiency testing: .......................................................... 15
CW 101, 102, and 103, FR 101, 102 and 103, SPAN 101, 102 and 103
ED 200 and 201 Foundations of Education Seminar 1, 2, 3, 4, 5
Choice of three courses in the following subjects that are also approved to fulfill AAOT Science with lab requirement: ......................................................... 12
ASTR, BI, G, GS, and PH
MTH 211, 212 or 213 (three courses needed) .......................... 12
WR 121 and WR 122 English Composition............................. 8

Remaining credits for Associate of Arts Oregon Transfer degree:

Health/Wellness/Fitness – FN 225 Nutrition or HE 250
or HE 275 (recommended) .................................................. 4
Oral Communications – (COMM 111 recommended) ............. 3-4
Cultural Literacy – see AAOT Cultural Literacy requirement listing.......................................................... 3-4
Recommended Electives: ECE150, ECE 250......................... 4

Engineering, Civil

Transfer Guide for Associate of Science: Oregon State University degree

This Transfer Guide is for students transferring to Oregon State University only with a major in Civil Engineering

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing Horticulture major at the Oregon State University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Science: Oregon State University degree. Completing all courses may take longer than two years.
Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

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Students who graduated high school or received a GED in 1997 or thereafter are required to have a second language for admission to public universities in Oregon. Some programs/majors at specific four-year colleges may have a separate application process. Consult with an academic advisor or counselor to determine whether or not you need to complete college-level second coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Science Oregon State University degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. Associate of Science: Oregon State University courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide Civil Engineering with Associate of Science: Oregon State University degree

<table>
<thead>
<tr>
<th>Pre-Engineering (PRE-E) courses required by College of Engineering for admission into the Professional School and used for Pre-E GPA Calculation:</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 251 Differential Calculus ........................................</td>
<td>5</td>
</tr>
<tr>
<td>MTH 252 Integral Calculus .............................................</td>
<td>5</td>
</tr>
<tr>
<td>MTH 253 Infinite Series &amp; Sequences ..................................</td>
<td>5</td>
</tr>
<tr>
<td>MTH 254 Vector Calculus 1 ..............................................</td>
<td>4</td>
</tr>
<tr>
<td>MTH 256 Differential Equations ........................................</td>
<td>4</td>
</tr>
<tr>
<td>MTH 261 Linear Algebra ................................................</td>
<td>2</td>
</tr>
<tr>
<td>PH 211 Physics with Calculus 1 ........................................</td>
<td>5</td>
</tr>
<tr>
<td>PH 212 Physics with Calculus 2 ........................................</td>
<td>5</td>
</tr>
<tr>
<td>PH 213 Physics with Calculus 3 ........................................</td>
<td>5</td>
</tr>
<tr>
<td>CH 221 General Chemistry 1 ............................................</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 101 Engineering Orientation ....................................</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 211 Statics ..........................................................</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 213 Strength of Materials .......................................</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 Intro to Academic Writing ....................................</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one: ..................................................................</td>
<td>4</td>
</tr>
<tr>
<td>COMM 111 Fundamentals of Public Speaking .........................</td>
<td></td>
</tr>
<tr>
<td>COMM 112 Persuasive Speech ............................................</td>
<td></td>
</tr>
</tbody>
</table>

Additional courses expected by the School for entry into the Professional Program; these courses are prerequisites for junior year coursework

| CH 222 General Chemistry 2 ............................................... | 5       |
| ENGR 115 Engineering Graphics ......................................... | 3       |
| Math 265 Statistics for Scientists and Engineers .................. | 4       |
| ENGR 212 Dynamics ....................................................... | 4       |

Required for completion of major requirements for B.S. degree; recommended, but not required to complete prior to admission to Pro School

| WR 227 Technical Writing ................................................ | 4       |
| ENGR 101 Engineering Orientation .................................... | 3       |
| ECON 201 Principles of Economics: Microeconomics ............... | 4       |
| ENGR 221 Electrical Fundamentals 1 .................................. | 4       |

Remaining requirements for Associate of Science: Oregon State University Degree

| HE 275 Lifetime Health and Fitness ................................... | 3       |
| Western Culture – see AS: OSU approved listing ................... | 3-4     |
| Cultural Diversity – see AS: OSU approved listing .............. | 3-4     |
| Literature and the Arts – see AS: OSU approved listing ...... | 3-4     |
| Difference, Power and Discrimination – see AS: OSU approved listing ........................................ | 3-4     |

**Engineering, Environmental**

Transfer Guide for Associate of Science: Oregon State University degree

This Transfer Guide is for students transferring to Oregon State University only with a major in Environmental Engineering

**NOTE:** All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing Horticulture major at the Oregon State University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Science: Oregon State University degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer-Bus/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

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Prerequisites are required for some courses. See course descriptions.

See Associate of Science: Oregon State University degree requirements for approved Discipline Studies.

Associate of Science: Oregon State University courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.
Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide Environmental Engineering with Associate of Science Transfer: Oregon State University degree

Pre-Engineering (PRE-E) courses required by College of Engineering for admission into the Professional School and used for Pre-E GPA Calculation:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 251 Differential Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MTH 252 Integral Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MTH 253 Infinite Series &amp; Sequences</td>
<td>5</td>
</tr>
<tr>
<td>MTH 254 Vector Calculus 1</td>
<td></td>
</tr>
<tr>
<td>MTH 256 Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MTH 261 Linear Algebra</td>
<td>2</td>
</tr>
<tr>
<td>PH 211 Physics with Calculus 1</td>
<td>5</td>
</tr>
<tr>
<td>PH 212 Physics with Calculus 2</td>
<td>5</td>
</tr>
<tr>
<td>PH 213 Physics with Calculus 3</td>
<td>5</td>
</tr>
<tr>
<td>CH 221 General Chemistry 1</td>
<td>5</td>
</tr>
<tr>
<td>ENGR 102 Engr. Orient. 2 (Matlab)</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 211 Statics</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 212 Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>WR 121 Intro to Academic Writing</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one:</td>
<td>4</td>
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<td>COMM 111 Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
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<td></td>
</tr>
</tbody>
</table>

Additional courses expected by the School for entry into the Professional Program; these courses are prerequisites for junior year course work:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 222 General Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>CH 223 General Chemistry 3</td>
<td>5</td>
</tr>
<tr>
<td>CH 241 Organic Chemistry 1*</td>
<td>5</td>
</tr>
<tr>
<td>CH 242 Organic Chemistry 2*</td>
<td>5</td>
</tr>
<tr>
<td>CH 243 Organic Chemistry 3*</td>
<td>5</td>
</tr>
</tbody>
</table>

Required for completion of major requirements for B.S. degree; recommended, but not required to complete prior to admission to Pro School:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 227 Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 101 Engineering Orientation</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 115 Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 213 Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>BI 234 Introductory Microbiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Remaining requirements for the Associate of Science: Oregon State University Degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HE 275 Lifetime Health and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>Western Culture – see AS: OSU approved listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Cultural Diversity – see AS: OSU approved listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Literature and the Arts – see AS: OSU approved listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Social Processes and Institutions – see approved</td>
<td>3-4</td>
</tr>
<tr>
<td>AS: OSU approved listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Difference, Power and Discrimination – see AS: OSU approved listing</td>
<td>3-4</td>
</tr>
</tbody>
</table>

*Taking CH 241-243 at Lane will satisfy OSU’s Biology major requirement but student will receive lower-division credit at OSU. Upon passing the American Chemical Society (ACS) organic chemistry equivalency test offered to Lane students after completion of CH 243, students can receive up to 15 credits of upper-division organic chemistry credits at OSU.

Engineering, Mechanical

Transfer Guide for Associate of Science: Oregon State University

This Transfer Guide is for students transferring to Oregon State University only with a major in Mechanical Engineering

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Prerequisites are required for some courses. See course descriptions.

See Associate of Science: Oregon State University degree requirements for approved Discipline Studies courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (†) requirement.

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Transfer Guide Mechanical Engineering with Associate of Science: Oregon State University

Pre-Engineering (PRE-E) courses required by College of Engineering for admission into the Professional School and used for Pre-E GPA Calculation:

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<td>Math 254 Vector Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>Math 256 Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>Math 261 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PH 211 Physics with Calculus 1</td>
<td>5</td>
</tr>
<tr>
<td>PH 212 Physics with Calculus 2</td>
<td>5</td>
</tr>
<tr>
<td>PH 213 Physics with Calculus 3</td>
<td>5</td>
</tr>
</tbody>
</table>

Engineering, Mechanical

Transfer Guide for Associate of Science: Oregon State University

This Transfer Guide is for students transferring to Oregon State University only with a major in Mechanical Engineering

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

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Transfer Guide Mechanical Engineering with Associate of Science: Oregon State University

Pre-Engineering (PRE-E) courses required by College of Engineering for admission into the Professional School and used for Pre-E GPA Calculation:

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<tr>
<td>Math 252 Integral Calculus</td>
<td>5</td>
</tr>
<tr>
<td>Math 253 Infinite Series &amp; Sequences</td>
<td>5</td>
</tr>
<tr>
<td>Math 254 Vector Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>Math 256 Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>Math 261 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PH 211 Physics with Calculus 1</td>
<td>5</td>
</tr>
<tr>
<td>PH 212 Physics with Calculus 2</td>
<td>5</td>
</tr>
<tr>
<td>PH 213 Physics with Calculus 3</td>
<td>5</td>
</tr>
</tbody>
</table>
CH 221 General Chemistry 1 ........................................ 5
ENGR 102 Engr. Orient. 2 (Matlab) .................................. 4
ENGR 211 Statics .......................................................... 4
ENGR 212 Dynamics ...................................................... 4
WR 121 Intro to Academic Writing ................................ 4
Choice of one: .......................................................... 4
COMM 111 Fundamentals of Public Speaking
COMM 112 Persuasive Speech

Additional courses expected by the School for entry into the Professional Program; these courses are prerequisites for junior year course work:
CH 222 General Chemistry 2 ........................................ 5
ENGR 115 Engineering Graphics ................................. 3
ENGR 213 Strength of Materials .................................. 4
ENGR 221 Electrical Fundamentals 1 ............................ 4

Required for completion of major requirements for B.S. degree; recommended, but not required to complete prior to admission to Pro School:

- Technical Writing ........................................... 4
- ENGR 101 Engineering Orientation .......................... 3
- Math 265 Statistics for Scientists and Engineers .......... 4
- ECON 201 Principles of Economics: Microeconomics .... 4

Associate of Science Direct to Oregon State University Degree

- HE 275 Lifetime Health and Fitness .......................... 3
- Western Culture – see AS: OSU approved listing ...... 3-4
- Cultural Diversity – see AS: OSU approved listing ... 3-4
- Literature and the Arts – see AS: OSU approved listing.. 3-4
- Difference, Power and Discrimination – see AS: OSU approved listing ........................................... 3-4

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer (AAOT) degree requirements for approved Arts and Letters, Communication, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

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**Transfer Guide for English with Associate of Arts Oregon Transfer (AAOT):**

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 227 Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 101 Engineering Orientation</td>
<td>3</td>
</tr>
<tr>
<td>Stat 265 Statistics for Scientists and Engineers</td>
<td>4</td>
</tr>
<tr>
<td>ECON 201 Principles of Economics: Microeconomics</td>
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</tbody>
</table>

**Associate of Science Direct to Oregon State University Degree**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Culture – see AS: OSU approved listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Cultural Diversity – see AS: OSU approved listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Literature and the Arts – see AS: OSU approved listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Difference, Power and Discrimination – see AS: OSU approved listing</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Remaining Requirements for Associate of Arts Oregon Transfer (AAOT) degree:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 plus WR 122</td>
<td>8</td>
</tr>
<tr>
<td>MTH 105 or college level math course with prerequisite of MTH 095</td>
<td>4</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – see AAOT listing for approved courses</td>
<td>3-4</td>
</tr>
<tr>
<td>Oral Communication – see AAOT Communication listing</td>
<td>4</td>
</tr>
<tr>
<td>Cultural Literacy – see AAOT Cultural Literacy listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Arts &amp; Letters – see AAOT approved Arts and Letters listing</td>
<td>0-4</td>
</tr>
<tr>
<td>Social Sciences – see AAOT approved</td>
<td>12-16</td>
</tr>
<tr>
<td>Social Science listing</td>
<td>12-16</td>
</tr>
<tr>
<td>Sciences – see AAOT approved listing for 2 lab and one non-lab class.</td>
<td>15-16</td>
</tr>
<tr>
<td>Electives-credits needed to bring total credits to 90, within limitations of AAOT</td>
<td></td>
</tr>
</tbody>
</table>
Ethnic Studies

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in Ethnic Studies

NOTE: All students must meet with their major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college, and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing an Ethnic Studies major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer (AAOT) degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer (AAOT) degree requirements for approved Arts and Letters, Communication, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer (AAOT) degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Ethnic Studies with Associate of Arts Oregon Transfer (AAOT):

ES 101 Introduction to Ethnic Studies......................... 4
Choice of two 4-credit courses:
ES 211 or 212 or 213 Chicano/Latino Experience.......... 4
ES 221 or 222 or 223 African American Experience ....... 4
ES 231 or 232 or 233 Asian American Experience......... 4
ES 241 or 242 Native American Experience................ 4

Remaining Requirements for Associate of Arts Oregon Transfer (AAOT) degree:
WR 121 plus WR 122 .................................................. 8

MTH 105 or college level math course with prerequisite of MTH 095 .............................................. 4-5
Health/Wellness/Fitness – see AAOT listing for approved courses .............................................. 3-4
Oral Communication – see AAOT Communication listing ......................................................... 4
Arts & Letters – see AAOT approved Arts and Letters listing ....................................................... 9-12
Social Sciences – see AAOT approved Social Science listing ....................................................... 3-4

Electives - credits needed to bring total to 90, within limitations of AAOT

General Science

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in General Science

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a General Science major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Ethnic Studies with Associate of Arts Oregon Transfer (AAOT):

ES 101 Introduction to Ethnic Studies......................... 4
Choice of two 4-credit courses:
ES 211 or 212 or 213 Chicano/Latino Experience.......... 4
ES 221 or 222 or 223 African American Experience ....... 4
ES 231 or 232 or 233 Asian American Experience......... 4
ES 241 or 242 Native American Experience................ 4

Remaining Requirements for Associate of Arts Oregon Transfer (AAOT) degree:
WR 121 plus WR 122 .................................................. 8

MTH 105 or college level math course with prerequisite of MTH 095 .............................................. 4-5
Health/Wellness/Fitness – see AAOT listing for approved courses .............................................. 3-4
Oral Communication – see AAOT Communication listing ......................................................... 4
Arts & Letters – see AAOT approved Arts and Letters listing ....................................................... 9-12
Social Sciences – see AAOT approved Social Science listing ....................................................... 3-4

Electives - credits needed to bring total to 90, within limitations of AAOT
be completed to meet lower division major requirements at the four-year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for General Science with Associate of Arts Oregon Transfer degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 251 Differential Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MTH 252 Integral Calculus</td>
<td>5</td>
</tr>
<tr>
<td>Complete 3 of the following lower-division Science Sequences:</td>
<td></td>
</tr>
<tr>
<td>BI 211, BI 212, BOT/Z 213 Principles of Biology</td>
<td>12</td>
</tr>
<tr>
<td>CH 221, CH 222, CH 223 General Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>PH 201, PH 202, PH 203 General Physics</td>
<td>15</td>
</tr>
<tr>
<td>G 201, G 202, G 203 Geology</td>
<td>12</td>
</tr>
<tr>
<td>CS 161C+, CS 162C+, CS 260 Computer Science C++</td>
<td>12</td>
</tr>
</tbody>
</table>

Remaining requirements for the Associate of Arts Oregon Transfer degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121, plus WR 122 or WR 227</td>
<td>8</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – see AAOT listing for approved courses</td>
<td>3</td>
</tr>
<tr>
<td>Oral Communications – see AAOT Communication requirement listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Cultural Literacy – see AAOT Cultural Literacy requirement listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Arts and Letters – see AAOT approved Arts and Letters listing</td>
<td>9-12</td>
</tr>
<tr>
<td>Social Sciences – see AAOT approved Social Science listing</td>
<td>12-16</td>
</tr>
<tr>
<td>Electives – see limitations on AAOT and credits needed to bring total to 90 transfer credits</td>
<td></td>
</tr>
</tbody>
</table>

Geography

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in Geography

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college, and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements. Some are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Geography major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer (AAOT) degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework. Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer (AAOT) degree requirements for approved Arts and Letters, Communication, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer (AAOT) degree courses must be completed with a minimum grade of Pass C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four-year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Geography with Associate of Arts Oregon Transfer (AAOT):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 141 Natural Environment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 142 Introduction to Human Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 151 Digital Earth</td>
<td>4</td>
</tr>
<tr>
<td>Choice of one:</td>
<td>3-4</td>
</tr>
<tr>
<td>GEOG 201 World Regional Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 206 Geography of Pacific Asia</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>
</tbody>
</table>

Remaining Requirements for Associate of Arts Oregon Transfer (AAOT) degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 plus WR 122</td>
<td>8</td>
</tr>
<tr>
<td>MTH 105 or college level math course with prerequisite of MTH 095</td>
<td>4-5</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – see AAOT listing for approved courses</td>
<td>3-4</td>
</tr>
<tr>
<td>Oral Communication – see AAOT Communication listing</td>
<td>4</td>
</tr>
<tr>
<td>Arts &amp; Letters – see AAOT approved Arts and Letters listing</td>
<td>9-12</td>
</tr>
<tr>
<td>Social Sciences – see AAOT approved Social Science listing</td>
<td>6-8</td>
</tr>
<tr>
<td>Electives-credits needed to bring total credits to 90, within limitations of AAOT</td>
<td></td>
</tr>
</tbody>
</table>

History

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in History

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college, and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements. Some are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a History major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer (AAOT) degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students admitted to Oregon public universities
are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for graduation purposes. Some universities may have additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer (AAOT) degree requirements for approved Arts and Letters, Communication, Health/ Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer (AAOT) degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the "Transfer" section in this catalog.

Transfer Guide for History with Associate of Arts Oregon Transfer (AAOT):

Choice of one three-term sequence: ................................................. 12
  HST 101, 102 & 103 Western Civilization or
  HST 104, 105 & 106 World History or
  HST 201, 202 & 203 History of the United States

Remaining Requirements for Associate of Arts Oregon Transfer (AAOT) degree:

WR 121 plus WR 122 ................................................................. 8
MTH 105 or college level math course with prerequisite of MTH 095 ................................................................. 4-5
Health/Wellness/Fitness – see AAOT listing for approved courses. ................................................................. 3-4
Oral Communication – see AAOT Communication listing ................................................................................. 4
Cultural Literacy – see AAOT Cultural Literacy listing .................................................................................. 3-4
Arts & Letters – see AAOT approved Arts and Letters listing ....................................................................... 9-12
Social Sciences – see AAOT approved Social Science listing ........................................................................ 3-4
Sciences – see AAOT approved listing for 4 science courses ........................................................................... 15-19
Electives-to bring total credits to 90, within limitations of AAOT ................................................................. 29

Horticulture, General Horticulture Option

Transfer Guide for Associate of Science: Oregon State University (AS: OSU) degree

This Transfer Guide is for students transferring to Oregon State University only with a major in Horticulture

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses required for students pursuing Horticulture major at the Oregon State University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Science: Oregon State University degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Science: Oregon State University degree requirements for approved Discipline Studies courses. Associate of Science: Oregon State University courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the "Transfer" section in this catalog.

Transfer Guide for Horticulture, general horticulture option with Associate of Science: Oregon State University degree:

WR 121 Intro to Academic Writing ................................................................. 4
Choice of one math course from list below: ................................................. 4
  MTH 112 Trigonometry
  MTH 241 Elementary Calculus 1
BI 211 Principles of Biology ................................................................. 4
BI 212 Principles of Biology ................................................................. 4
BOT 213 Principles of Biology ................................................................. 4
CH 221 General Chemistry 1 ................................................................. 5
CH 222 General Chemistry 2 ................................................................. 5
CH 223 General Chemistry 3 ................................................................. 5
Choice of one Political Science course from list below: ................................................. 4
  PS 201 U.S Government & Politics
  PS 205 International Relations

Credits

167
Grading options and GPA requirements for majors may differ from year to year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

LCC offers the lower division major and general education courses needed for students pursing a Human Physiology major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/ C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are granted junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement. Associate of Arts Oregon Transfer courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

### Transfer Guide for Human Physiology with Associate of Arts Oregon Transfer degree:

- **Math 251 Differential Calculus** .......................... 5
- **BI 211 Principles of Biology** .......................... 4
- **BI 213 Principles of Biology** .......................... 4
- **BOT/Z 213 Principles of Biology** .......................... 4
- **CH 221 General Chemistry 1** .......................... 5
- **CH 222 General Chemistry 2** .......................... 5
- **CH 223 General Chemistry 3** .......................... 5
- **PH 201 General Physics 1** .......................... 5
- **PH 202 General Physics 2** .......................... 5
- **PH 203 General Physics 3** .......................... 5
- **HO 100 Medical Terminology** .......................... 3

### Remaining requirements for Associate of Arts Oregon Transfer degree:

- **WR 121, plus WR 122 or WR 227** .......................... 8
- **Health/Wellness/Fitness** – see AAOT listing for approved courses .......................... 3
- **Oral Communications** – see AAOT Communication requirement listing .......................... 3-4
- **Cultural Literacy** – see AAOT Cultural Literacy requirement listing .......................... 3-4
- **Arts and Letters** – see AAOT approved Arts and Letters listing .......................... 9-12
- **Social Sciences** – see AAOT approved Social Science listing .......................... 12-16
- **Electives** – see limitations on AAOT and to bring credits needed total to 90 transfer credits

* Human Physiology requirements must be completed with a C or better. Only two attempts allowed.

### Journalism

#### Transfer Guide for Associate of Arts Oregon Transfer degree

This Transfer Guide is for students transferring to the University of Oregon with a major in Journalism only.

**NOTE:** All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Journalism major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/ C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are granted junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement. Associate of Arts Oregon Transfer courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. All major courses listed below must be completed to meet lower division major requirements at the four year college. Some programs/majors at specific four-year colleges may have a separate application process. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

### Transfer Guide for Human Physiology with Associate of Arts Oregon Transfer degree:

- **Math 251 Differential Calculus** .......................... 5
- **BI 211 Principles of Biology** .......................... 4
- **BI 213 Principles of Biology** .......................... 4
- **BOT/Z 213 Principles of Biology** .......................... 4
- **CH 221 General Chemistry 1** .......................... 5
- **CH 222 General Chemistry 2** .......................... 5
- **CH 223 General Chemistry 3** .......................... 5
- **PH 201 General Physics 1** .......................... 5
- **PH 202 General Physics 2** .......................... 5
- **PH 203 General Physics 3** .......................... 5
- **HO 100 Medical Terminology** .......................... 3

### Remaining requirements for Associate of Arts Oregon Transfer degree:

- **WR 121, plus WR 122 or WR 227** .......................... 8
- **Health/Wellness/Fitness** – see AAOT listing for approved courses .......................... 3
- **Oral Communications** – see AAOT Communication requirement listing .......................... 3-4
- **Cultural Literacy** – see AAOT Cultural Literacy requirement listing .......................... 3-4
- **Arts and Letters** – see AAOT approved Arts and Letters listing .......................... 9-12
- **Social Sciences** – see AAOT approved Social Science listing .......................... 12-16
- **Electives** – see limitations on AAOT and to bring credits needed total to 90 transfer credits

* Human Physiology requirements must be completed with a C or better. Only two attempts allowed.
additional upper division general education requirements or GPA requirements for admission to a specific major. Oregon public universities allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated or received a GED in 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 Associates of Arts Oregon Transfer degree requirements for approved Foundational Skills and/or Discipline Studies courses.

Associates of Arts Oregon Transfer courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Journalism major with Associates of Arts Oregon Transfer.

The 56 credit UO pre-Journalism block requirements are listed below:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature block (ENG prefix)</td>
<td>16</td>
</tr>
<tr>
<td>History block (HST prefix)</td>
<td>8</td>
</tr>
<tr>
<td>Economics block (ECON prefix)</td>
<td>8</td>
</tr>
<tr>
<td>Additional block #1 (choose 2 classes from the same prefix BI, CH, G, GS or PH to meet AAOT Science requirement)</td>
<td>8</td>
</tr>
<tr>
<td>Additional block #2 (choose 2 classes from the same prefix using the list below)</td>
<td>8</td>
</tr>
<tr>
<td>Additional block #3 (choose 2 classes from the same prefix using the list below)</td>
<td>8</td>
</tr>
</tbody>
</table>

Remaining Requirements for Associate of Arts Oregon Transfer (AAOT) degree:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 plus WR 122</td>
<td>8</td>
</tr>
<tr>
<td>Math 105/111</td>
<td>4-6</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – See AAOT listing for approved courses.</td>
<td>3-4</td>
</tr>
<tr>
<td>Oral Communication – See AAOT listing for approved courses.</td>
<td>4</td>
</tr>
<tr>
<td>Cultural Literacy – See AAOT listing for approved courses.</td>
<td>3-4</td>
</tr>
</tbody>
</table>

List any remaining requirements for the Associate degree listed as part of the Transfer Guide

**Music**

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to Southern Oregon University only with a major in Music

**NOTE:** All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Music major at the Southern Oregon University. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer -Bus/C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are ensured junior status for registration purposes. With the completion of the Associate of Science: University of Oregon (AS: UO) degree or the Associate of Science: Oregon State University (AS: OSU) students admitted to each respective university (UO/OSU) will fulfill many lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer degree requirements for approved Arts and Letters, Speech, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer degree courses must be completed with a minimum grade of Pass or C-. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Music with an Associate of Arts Oregon Transfer degree:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUS 111, 112, and 113 Music Theory</td>
<td>12</td>
</tr>
<tr>
<td>MUS 211, 212, and 213 Music Theory</td>
<td>9</td>
</tr>
<tr>
<td>MUS 114, 115 and 116 Sight-Reading</td>
<td>6</td>
</tr>
<tr>
<td>MUS 224, 225 and 226 Sight-Reading</td>
<td>6</td>
</tr>
<tr>
<td>MUS 127, 128 and 129 Keyboard Skills</td>
<td>6</td>
</tr>
<tr>
<td>MUS 214, 215 and 216 Keyboard Skills</td>
<td>6</td>
</tr>
<tr>
<td>MUP 100 level Individual Lessons</td>
<td>6</td>
</tr>
<tr>
<td>MUP 200 level Individual Lessons</td>
<td>6</td>
</tr>
<tr>
<td>WR 121 and WR 122 or 227 English Composition</td>
<td>8</td>
</tr>
</tbody>
</table>

Math 105 or college-level Math course with prerequisite
Political Science

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree

This Transfer Guide is for students transferring to the University of Oregon only with a major in Political Science

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college, and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Political Science major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer (AAOT) degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer (AAOT) degree requirements for approved Arts and Letters, Communication, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement.

Associate of Arts Oregon Transfer (AAOT) degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date requirements.

- of Math 95................................................................................. 4-5
- Health/Wellness/Fitness – see AAOT listing for approved courses......................................................... 3
- Oral Communications – see AAOT Communication requirement listing.................................................... 3-4
- Cultural Literacy – see AAOT Cultural Literacy requirement listing.............................................................. 3-4
- Arts and Letters – see AAOT approved Arts and Letters listing................................................................. 3-4
- Social Sciences – see AAOT approved Social Science listing....................................................................... 12-16
- Sciences – see AAOT approved 3 lab and 2 non lab Science listing ............................................................. 15-16

- Music - Political Science
information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Political Science with Associate of Arts Oregon Transfer (AAOT):  

A. Chose one class in each of the three subfields:........... 9-12  
1. Political Theory  
   PS 208 Intro to Political Theory  
   PS 225 Political Ideology  
2. United States Politics  
   PS 201 U.S. Government and Politics  
   PS 202 U.S. Government and Politics  
   PS 203 State and Local Government and Politics  
   PS 275 Legal Processes Through Civil Rights and Liberties  
   PS 297 Environmental Politics  
3. Comparative Politics  
   PS 204 Intro to Comparative Politics  
   PS 205 International Relations  
B. One additional course of interest is recommended........... 3  

Remaining Requirements for Associate of Arts Oregon Transfer degree:  

WR 121 plus WR 122 .................................................. 8  
Math 105 or college level math courses with prerequisite of MTH 095 .............................................. 4-5  
Health/Wellness/Fitness – see AAOT listing for approved courses .................................................. 3-4  
Oral Communication – see AAOT Communication listing .................................................. 4  
Cultural Literacy – see AAOT Cultural Literacy listing .................................................. 3-4  
Arts & Letters – see AAOT approved Arts and Letters listing .................................................. 9-12  
Social Sciences – see AAOT approved Social Science listing .................................................. 3-4  
Sciences – see AAOT approved listing for 4 science courses .................................................. 15-19  
Electives – to bring total credits to 90, within limitations of AAOT

Pre-Professional Health

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college, and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements. These are obtained through your Lane Academic Advising team. Admission into a professional health graduate school is competitive and most programs require a bachelor’s degree before applying. Students are encouraged to excel in their science sequences as many serve as prerequisites for graduate programs. Transfer institutions require additional upper division coursework to be accepted into any of the professional health graduate programs and may change prerequisites from year-to-year. Any student interested in transfer must accept responsibility to work very closely with the Lane Academic Advising team for the major/program and be aware of changes in program prerequisites at potential transfer institutions.  

Please note Science majors will need to be at a MTH 111 level before starting most science sequences  

Commonly selected undergraduate majors:  

Pre-Chiropractic: Biology, General Science, Human Physiology  
Pre-Dentistry: Biology, Biochemistry, Human Physiology  
Pre-Medicine: Biology, Biochemistry/Biophysics, Human Physiology, Microbiology  
Pre-Occupational Therapy: Human Physiology, Psychology  
Pre-Optometry: Biology, General Science, Human Physiology  
Pre-Pharmacy: Biology, General Science  
Pre-Physical Therapy: Biology, General Science, Human Physiology  
Pre-Physician’s Assistant: Biology, General Science, Human Physiology  

Pre-Veterinary Medicine: Animal Science, Biology, General Science  

For additional information on specific majors listed above and Pre-Professional Health programs in general, please meet with the Academic Advising team for that area. The commonly selected majors listed above have individual Transfer Guides within this section of the catalog.

Psychology

Transfer Guide for Associate of Arts Oregon Transfer (AAOT) degree  

This Transfer Guide is for students transferring to the University of Oregon only with a major in Psychology  

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college, and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements. These are obtained through your Lane Academic Advising team. Lane Community College offers the lower division major and general education courses needed for students pursuing a Psychology major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Arts Oregon Transfer (AAOT) degree. Completing all courses may take longer than two years. Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.  

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree, students 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission. Students who graduated high school or received a GED in 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 complete college-level second language coursework. Prerequisites are required for some courses. See course descriptions.

See Associate of Arts Oregon Transfer (AAOT) degree requirements for approved Arts and Letters, Communication, Health/Wellness/Fitness and Social Science courses. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy (*) requirement. Associate of Arts Oregon Transfer (AAOT) degree courses must be completed with a minimum grade of Pass or C- with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation. Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for Psychology with Associate of Arts Oregon Transfer:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 201, 202, 203 General Psychology</td>
<td>12</td>
</tr>
<tr>
<td>MTH 243 Introduction to Probability and Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>
Remaining Requirements for Associate of Arts Oregon Transfer degree:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 plus WR 122</td>
<td>8</td>
</tr>
<tr>
<td>Health/Wellness/Fitness – see AAOT listing for approved courses.</td>
<td>3-4</td>
</tr>
<tr>
<td>Oral Communication – see AAOT Communication listing.</td>
<td>4</td>
</tr>
<tr>
<td>Cultural Literacy – see AAOT Cultural Literacy listing.</td>
<td>3-4</td>
</tr>
<tr>
<td>Arts &amp; Letters – see AAOT approved Arts and Letters listing</td>
<td>9-12</td>
</tr>
<tr>
<td>Social Sciences – see AAOT approved Social Science listing</td>
<td>3-4</td>
</tr>
<tr>
<td>Sciences – see AAOT approved listing for 4 science courses</td>
<td>12-15</td>
</tr>
<tr>
<td>Electives – credits needed to bring total credits to 90, within limitations of AAOT</td>
<td></td>
</tr>
</tbody>
</table>

**Theater Arts**

**Associate of Science: University of Oregon degree**

This Transfer Guide is for students transferring to University of Oregon only with a major in Theater Arts

**NOTE:** All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guarantee to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane Community College offers the lower division major and general education courses needed for students pursuing a Theater Arts major at the University of Oregon. The general education and major courses in the Transfer Guide meet the requirements for the Associate of Science: University of Oregon degree. Completing all courses may take longer than two years.

Transfer degrees require a total of 90 transferable credits, with specific general education requirements in Foundational Skills and Discipline Studies.

With the completion of the Associate of Arts Oregon Transfer (AAOT) degree or the Associate of Science Oregon Transfer-Bus/ C.S. degree, students admitted to Oregon public universities are guaranteed to have fulfilled all lower division general education requirements and are granted 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 allow students who have earned the AAOT with a GPA of 2.0 or better to apply for admission.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

See Associate of Science: University of Oregon degree requirements for approved Discipline Studies.

Associate of Science: University of Oregon degree courses must be completed with a minimum grade of Pass or C with no more than 16 credits P graded. There is a minimum 2.0 GPA requirement for graduation.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

**Transfer Guide for Theater Arts with Associate of Science: University of Oregon (AS: UO) degree**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 141 Acting 1</td>
<td>3</td>
</tr>
<tr>
<td>TA 142 Acting II</td>
<td>3</td>
</tr>
<tr>
<td>TA 150 Technical Production</td>
<td>3</td>
</tr>
<tr>
<td>TA 250 Technical Productions II</td>
<td>3</td>
</tr>
<tr>
<td>TA 121 Intro to Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>TA 227 Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>TA 272 Intro to Theatre Art</td>
<td>3</td>
</tr>
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</table>

**Associate of Science: University of Oregon degree remaining requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 121 plus WR 122</td>
<td>8</td>
</tr>
<tr>
<td>MTH 105 or college-level Math course with prerequisite of MTH 095</td>
<td>4-5</td>
</tr>
<tr>
<td>Arts and Letters – see AS: UO approved Arts and Letters listing</td>
<td>15</td>
</tr>
<tr>
<td>Social Sciences – see AS: UO approved Social Science listing</td>
<td>15</td>
</tr>
<tr>
<td>Sciences – see AS: UO approved Science listing</td>
<td>15</td>
</tr>
<tr>
<td>Electives – see limitations on AS: UO and credits needed to bring total to 90 transfer credits</td>
<td></td>
</tr>
</tbody>
</table>
Lane Community College offers students the option to transfer toward a Bachelor degree after completing an Associate of Applied Science (AAS) degree for specific majors going into specific four-year college majors. This enables students to use a greater number of Career Technical courses toward a Bachelor degree.

The Transfer Guides in this section include Lane Career Technical programs that lead toward a specific Bachelor degree at a specific four-year college. These guides include major requirements for the program requirements and general education requirements for the specific four-year college.

Some of these programs are offered in an online format by the four-year college and universities. Some of these programs are in a classroom format.

Major requirements for first- and second-year coursework vary from college to college and from academic year to year. Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year institutions may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four-year institution.

It is imperative that students consult with the major Academic Advising team at Lane to assure the appropriate coursework is being chosen. For information about the Academic Advising teams, please see the “Transfer” section in this catalog. The guides are not meant as a substitute to meeting with the major Academic Advising team.

Transfer Guides in this section include various majors for specific four-year colleges and universities in Oregon. Lane Community College offers courses and transfer information for transfer majors and/or four-year colleges that may not, at this time, be listed in the catalog. Please meet with the Lane Academic Advising team for the major/program or four-year college you are interested in to determine more possibilities. Lane does not endorse any specific four-year college or university.
Associate of Applied Science in any field except Business and Accounting to Bachelor of Applied Science in Management

This Transfer Guide is for students transferring to Southern Oregon University.

NOTE: All students must meet with their major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane offers students the option to transfer toward a Bachelor degree after completing an Associate of Applied Science (AAS) degree for specific majors going into specific four-year college majors. This enables students to use a greater number of Career Technical courses toward a Bachelor degree.

This Transfer Guide is for students transferring to Southern Oregon University with a major in Management and an Associate of Applied Science in any field except Business and Accounting. Student must meet all admission requirements for the four-year college, including but not limited to: WR 121, Math 100 or higher, and GPA requirement. Students must also complete all coursework listed below. General Education requirements for the specific four-year college can be completed either at that specific university or with an Associate degree for transfer. For more information about these options, please meet with your program/major Academic Advising team.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four-year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for students with Lane’s Associate of Applied Science in any field except Business or Accounting.

Additional required major coursework includes: Credits
Choice of one: .................................................. 4
COMM 111 Public Speaking or
COMM 218 Interpersonal Communications or
COMM 219 Small Group Discussion
ECON 200, 201 and 202 Economics ............................... 9
BA 211 Financial Accounting ......................................... 4
BA 213 Managerial Accounting ................................. 4
BT 223 MS Excel for Business Expert ......................... 4
Math 243 Probability and Statistics .......................... 4
WR 121 English Composition ...................................... 4
WR 122 English Composition ...................................... 4

Additional required courses for transfer to Southern Oregon University with a major in Management:

Humanities – see Academic Advising team for options 9-12
Social Science .......................................................... 3-4
Sciences (including 2 Lab courses) – see Academic Advising team for options 11-12

Associate of Applied Science in Dental Hygiene to Bachelor of Science in Dental Hygiene

This Transfer Guide is for students transferring to Oregon Institute of Technology.

NOTE: All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guaranteed to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane offers students the option to transfer toward a Bachelor degree after completing an Associate of Applied Science (AAS) degree for specific majors going into specific four-year college majors. This enables students to use a greater number of Career Technical courses toward a Bachelor degree.

This Transfer Guide is for students transferring to Oregon Institute of Technology with a major in Dental Hygiene and an Associate of Applied Science in Dental Hygiene. Student must meet all admission requirements for the four-year college, including but not limited to: WR 121, Math 100 or higher, and GPA requirements. Students must also complete all coursework listed below.

General Education requirements for the specific four-year college can be completed either at that specific university or with an Associate degree for transfer. For more information about these options, please meet with your program/major Academic Advising team.

Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four-year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

Transfer Guide for students with Lane’s Associate of Applied Science in Dental Hygiene.

Additional required major coursework includes: Credits
BI 112 Cell Biology for Health Occupations ...................... 3
BI 231, 232, 233 Human Anatomy and Physiology .............. 12
BI 234 Microbiology .................................................. 4
CH 112 Chemistry for Health Occupations ................. 3
FN 225 Nutrition ..................................................... 4
MTH 52 Math for Intro Physical Sciences or Higher .............. 4
Choice of one: SOC 204, 205 or 206 Sociology ................. 3-4
Choice of one: PSY 201, 202 or 203 General Psychology ....... 4
Choice of one: .......................................................... 4
COMM 100 Basic Communications
COMM 111 Public Speaking
WR 121 English Composition ...................................... 4
Choice of one: .......................................................... 4
WR 123 Composition: Research
WR 227 Technical Writing
Additional required courses for transfer to Oregon Institute of Technology only with a major in Dental Hygiene:

- HO 100 Medical Terminology ........................................... 3
- MTH 095 Intermediate Algebra ........................................... 5
- Any PSY 100 or higher (in addition to PSY requirement listed above) .................................................. 3-4
- COMM 111 Public Speaking (only needed if not chosen for requirement listed above) ............................... 4
- WR 122 English Composition ........................................... 4
- Choice of one sequence: ............................................... 15-17
  - BI 112 Cell Biology, BI 211 Principles of Biology, CH 112 Chemistry for Health, and CH 221 General Chemistry or CH 221, 222 and 223 General Chemistry
- Arts and Letters ......................................................... 3-4

**Associate of Applied Science in Flight Technology to Bachelor of Applied Science in Technology and Management**

This Transfer Guide is for students transferring to Oregon Institute of Technology

**NOTE:** All students must meet with your major Academic Advising team at Lane to assure information is accurate and current. Major requirements are different from four-year college to four-year college and may change every year. Associate degree requirements can also change from year to year. This is a Guide only and is not guarantee to encompass all major/program requirements - these are obtained through your Lane Academic Advising team.

Lane offers students the option to transfer toward a Bachelor degree after completing an Associate of Applied Science (AAS) degree for specific majors going into specific four-year college majors. This enables students to use a greater number of Career Technical courses toward a Bachelor degree.

This Transfer Guide is for students transferring to Oregon Institute of Technology with a major in Technology and Management and an Associate of Applied Science in Flight Technology. Student must meet all admission requirements for the four-year college, including but not limited to: WR 121, Math 100 or higher, and GPA requirement. Students must also complete all coursework listed below. General Education requirements for the specific four-year college can be completed with either a to that specific university or with an Associate degree for transfer. Students who graduated high school or received a GED in 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 complete college-level second language coursework.

Prerequisites are required for some courses. See course descriptions.

Grading options and GPA requirements for majors may differ from degree requirements. Some programs/majors at specific four-year colleges may have a separate application process. All major courses listed below must be completed to meet lower division major requirements at the four-year college. Please meet with the major Academic Advising team for up to date information. For information about the Academic Advising teams, please see the “Transfer” section in this catalog.

**Transfer Guide for students with Lane’s Associate of Applied Science in Flight Technology:**

**Additional required major coursework includes:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 111 College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>ECON 200, 201 and 202 Economics</td>
<td></td>
</tr>
<tr>
<td>BA 101 Intro to Business</td>
<td></td>
</tr>
<tr>
<td>BA 206 Management Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BA 211 Financial Accounting</td>
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<tr>
<td>BA 213 Managerial Accounting</td>
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<tr>
<td>BA 223 Marketing</td>
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<tr>
<td>BA 226 Business Law</td>
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<tr>
<td>BT 123 MS EXCEL</td>
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</tr>
<tr>
<td>CIS 125D Software Tools: Databases</td>
<td></td>
</tr>
<tr>
<td>COMM 111 Public Speaking</td>
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<td>WR 122 Composition: Argument, Style and Research</td>
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<tr>
<td>WR 227 Technical Writing</td>
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<tr>
<td>Additional required courses for transfer to Oregon Institute of Technology only with a major in Technology and Management</td>
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<tr>
<td>Arts and Letters – see Academic Advising team for choices</td>
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<td>Science with lab – see Academic Advising team for choices</td>
<td>4</td>
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The Areas of Interest allow for a broader exploration into a specific theme with courses crossing multiple disciplines and subjects. In some of the Areas of Interest, multiple Lane departments work together to provide a cohesive learning environment related to a theme or subject matter. In other Areas of Interest, all courses are within one subject or discipline. The Areas of Interest do not fulfill major requirements for specific four-year colleges and do not fulfill degree requirements. If you are interested in finding out more about transferring to a four-year college in Oregon and/or pursuing a specific major, please meet with the Academic Advising team for that area.
American Indian Experience

The Areas of Interest do not fulfill major requirements for specific four-year colleges and do not fulfill degree requirements. If you are interested in finding out more about transferring to a four-year college in Oregon and/or pursuing a specific major, please meet with the Academic Advising team for that area.

Students who directly benefit from the American Indian Experience Area of Interest include:

- students who wish to study an American Indian language;
- students who prefer a less institutionalized educational experience that is 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 area of interest 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.

The Learning Communities for this Area of Interest are:

- Native Circles CG 101: College Success Native American Style
- An entry for students into career planning and college success accomplished in an American Indian cultural context.

Reconnecting with Nature: consisting of BI 103G Global Ecology; REL 243 Nature, Religion, and Ecology; and PS 297 OR PS 297_H Environmental Politics. The Learning Community provides exploration of reconnecting with nature from the perspectives of science, spirituality, and political activism.

NOTE: Prerequisites are required for some classes. See course descriptions.

Courses for this Area of Interest include:

- American Indian Languages
- CW 101, 102 and 103 Chinuk Wawa – first year
- CW 201, 202 and 203 Chinuk Wawa – second year
- CW 280 Cooperative Education, integrates classroom learning with field experience
- ART 203 or ART 203_H Survey of American Indian Art and Architecture: North and Central America
- 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
- BI 103G Global Ecology, examine nature through Indian eyes and western science
- ES 211 Chicanx/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
- ES 244 Native American Storytelling
- ENG 232 Native American Literature

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 American 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

Exercise and Sport Science

The Areas of Interest do not fulfill major requirements for specific four-year colleges and do not fulfill degree requirements. If you are interested in finding out more about transferring to a four-year college in Oregon and/or pursuing a specific major, please meet with the Academic Advising team for that area.

NOTE: Prerequisites are required for some classes. See course descriptions.

Courses for this Area of Interest include:

- BI 112 Cell Biology for Health Occupations and CH 112 Chemistry for Health Occupations
- BI 231, 232 and 233 Human Anatomy and Physiology
- BI 234 Microbiology
- CH 221, CH 222 and CH 223 General Chemistry
- COMM 111 Fundamentals of Public Speaking OR COMM 218 Interpersonal Communication
- COMM 130 Business and Professional Speech OR COMM 115 Introduction to Intercultural Communication OR
- COMM 220 Communication, Gender and Culture
- HE 275 Lifetime Health and Fitness
- MTH 097 Geometry
- MTH 111 College Algebra
- MTH 112 Trigonometry
- PH 201 General Physics
- PHL 201 Ethics
- PSY 201 General Psychology
- PSY 215 Lifespan Developmental Psychology
- WR 121 OR WR 121_H Introduction to Academic Writing
- WR 122 OR WR 122_H Composition: Argument, Style and Research OR WR 227 Technical Writing

Health Education

The Areas of Interest do not fulfill major requirements for specific four-year colleges and do not fulfill degree requirements. If you are interested in finding out more about transferring to a four-year college in Oregon and/or pursuing a specific major, please meet with the Academic Advising team for that area.

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 attaining and nurturing all areas of health remains a worldwide priority in the twenty-first century. The Area of Interest for Health Education is designed for students who would like to further their knowledge in multiple health areas.

NOTE: Prerequisites are required for some classes. See course descriptions.

Courses for this Area of Interest include:

- HE 275 Lifetime Health and Fitness
- HE 252 First Aid
- HE 250 Personal Health
- HE 222 Consumer Health or HE 240 Holistic Health
- HE 152 Drugs Society and Behavior
- HE 209 Human Sexuality
- HE 125 Workplace Health and Safety
- HE 222 Consumer Health or HE 240 Holistic Health
- MTH 105 Introduction to Contemporary Mathematics OR MTH 111 College Algebra* (or any higher Math course)
**Peace Studies**

The Areas of Interest do not fulfill major requirements for specific four-year colleges and do not fulfill degree requirements. If you are interested in finding out more about transferring to a four-year college in Oregon and/or pursuing a specific major, please meet with the Academic Advising team for that area.

The Area of Interest in Peace Studies is defined in broad terms extending beyond the study of war, recognizing that peace is rooted in social, economic, racial, gender, and environmental justice.

**NOTE:** Prerequisites are required for some courses. See course descriptions.

**Courses for this Area of Interest include:**

The following three classes focus on the underlying causes of war and conflict, and on steps toward building peace.

- 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.

- ANTH 103 Cultural Anthropology
- COMM 115 Introduction to Intercultural Communication
- ENGI 222 Literature and Gender
- 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
- HST 195 History of Vietnam
- PS 275 Legal Processes through Civil Rights and Liberties
- PS 297 OR PS 297. H 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

*Prerequisites are required for some classes. See course descriptions.*

**Pre-Journalism**

The Areas of Interest do not fulfill major requirements for specific four-year colleges and do not fulfill degree requirements. If you are interested in finding out more about transferring to a four-year college in Oregon and/or pursuing a specific major, please meet with the Academic Advising team for that area.

**NOTE:** Prerequisites are required for some classes. See course descriptions.

**Courses for this Area of Interest include:**

- J 216 Newswriting
- MTH 105 Introduction to Contemporary Math or MTH 111 College Algebra
- WR 121 OR WR 121. H Introduction to Academic Writing
- WR 122 OR WR 122. H Composition: Argument, Style and Research

Choice of two in the same subject from this listing:

- ASTR 100 or higher - Astronomy
- BI 100 or higher - Biology
- CH 100 or higher - Chemistry
- ENV 100 or higher - Environmental Science
- G 100 of higher - Geology
- GS 100 or higher - General Science
- PH 100 or higher - Physics

Two courses at 4 credits each from:

- ECON 100 or higher - Economics
- GEOG 100 of higher - Geography
- POL 100 of higher - Political Science
- PS 100 of higher - Psychology
- PSY 100 of higher - Psychology
- WR 121 OR WR 121. H Composition: Introduction to Academic Writing
- WR 122 OR WR 122. H Composition: Argument, Style, and Research
- WS 101 of higher - Writing

**Women's Studies**

The Areas of Interest do not fulfill major requirements for specific four-year colleges and do not fulfill degree requirements. If you are interested in finding out more about transferring to a four-year college in Oregon and/or pursuing a specific major, please meet with the Academic Advising team for that area.

Women's Studies is an interdisciplinary field that explores how gender relations structure our lives. Through feminist scholarship and a focus on women, this Area of Interest challenges and transforms existing thought and practices across academic boundaries. The courses contained within this Area of Interest 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.

**NOTE:** Prerequisites are required for some classes. See course descriptions.

**Courses for this Area of Interest include:**

- COMM 115 Intercultural Communications OR COMM 220 Communication, Gender and Culture
- COMM 100 Basic Communications OR COMM 111 Fundamentals of Public Speaking OR COMM 112 Persuasive Speech
- Plus choice of four courses from those listed below.
- COMM 100 Basic Communication
- COMM 105 Listening and Critical Thinking
- COMM 111 Fundamentals of Public Speaking
- COMM 112 Persuasive Speech
- COMM 115 Introduction to Intercultural Communication
- COMM 130 Business and Professional Speech
- COMM 218 Interpersonal Communication
- COMM 219 Small Group Communication
- COMM 220 Communication, Gender and Culture
- COMM 221/222/223 Forensics
- COMM 262 Voice and Articulation

*Prerequisites are required for some classes. See course descriptions.*

**Speech and Communication Studies**

The Areas of Interest do not fulfill major requirements for specific four-year colleges and do not fulfill degree requirements. If you are interested in finding out more about transferring to a four-year college in Oregon and/or pursuing a specific major, please meet with the Academic Advising team for that area.

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 Area of Interest provides an opportunity for students to enhance speech and communication skills.

Cooperative Education (Co-op): Students 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. This opportunity enables students to apply the classroom knowledge to a practical work experience. Students may also be able to obtain letters of recommendation from the supervising employer.

**NOTE:** Prerequisites are required for some classes. See course descriptions.

**Courses for this Area of Interest include:**

- COMM 105 Listening and Critical Thinking
- COMM 111 Fundamentals of Public Speaking
- COMM 112 Persuasive Speech
- COMM 115 Introduction to Intercultural Communication
- COMM 130 Business and Professional Speech
- COMM 218 Interpersonal Communication
- COMM 219 Small Group Communication
- COMM 220 Communication, Gender and Culture
- COMM 221/222/223 Forensics
- COMM 262 Voice and Articulation

*Prerequisites are required for some classes. See course descriptions.*
Course Descriptions

To request this information in an alternate format please contact the Center for Accessible Resources at 541.463.5150 or accessibleresources@lanecc.edu.
Accounting

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: MTH095 or higher or test, BA 101 and WR 121 or WR 122 or WR 123. Sophomore standing recommended. Students will gain an understanding of basic terms, the accounting model, and the 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. Introduction to tools and techniques for gathering, analyzing, and presenting 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
Prerequisite: BT 206. In this internship course students 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.

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, solve accounting problems, and prepare financial statements for service and merchandising firms. May be offered online.

BT 170 Payroll Records & Accounting ..........................4 credits
Prerequisite: BT 165 and BT 163. Introduces federal and state regulations affecting payroll. Provides practice in all payroll operations, including accounting entries, and the preparation of payroll tax returns. May be offered online.

BT 221 Budgeting for Managers ....................................4 credits
Prerequisite: BT 165 or BA 211. Recommend BT 123 MS EXCEL for Business. Course topics include budget creation, parts of a budget, gathering information for budgets, creating a product budget, planning and budgeting a project, presenting the budget, budget tracking, HR budgets, small business budgets, and human behavior in relationship to budgets. May be offered online.

BT 272 Tax concepts & Preparation ...............................4 credits
Prerequisite: BA 101, BT 206 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.

BT 286 Professional Bookkeeping .................................4 credits
Prerequisites: BA 211, BT 170, BT 272, BT 123, BT 163 and BT 221. This course continues to develop skills needed to become a full-cycle bookkeeper. Five primary areas of focus are accounting error correction, adjusting entries, payroll, depreciation and working papers. 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. May be 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.

BT 144 Administrative Procedures ...............................4 credits
Prerequisite: BT 108, BT 120, and WR 121. Recommend the ability to accurately type at least 35 words per minute. Visit lanec.edu/business for Business Department keyboarding guidelines or contact the instructor for details. This 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 work on developing soft skills and technical skills through projects, practice, and discussions. Keyboarding, formatting, and grammar skills will also be reinforced. May be offered online.

BT 220 Sustainable Paperless Office Practices ..............4 credits
Prerequisites: BT 120. Recommend the ability to accurately type approximately 30 words per minute. Visit lanec.edu/business for Business Department keyboarding guidelines or contact the instructor for details. Students participate in dynamic business simulations while 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. May be offered online.

BT 271 Administrative Office Professional Advanced Projects ........................................4 credits
Prerequisite: BT 228. Recommend the ability to accurately type at least 45 words per minute. Visit lanec.edu/business for Business Department keyboarding guidelines or contact the instructor for details. Students participate in dynamic business simulations while 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. May be offered online.

Air Conditioning - See Diesel and Heavy Equipment

Anatomy/Physiology/Microbiology

For information, contact the Science Division, Bldg. 16/Rm. 156, 541.463.5446.

BI 231 Human Anatomy and Physiology 1 ..................4 credits
Prerequisite: Grade of ‘C-’ or better in BI 112 and CH 112. Foundational first course in anatomy/physiology. Topics include human body organization, histology and the integumentary, skeletal, articular, and muscular body systems; nervous system fundamentals and autonomic nervous system. Common clinical applications associated with these topics are presented.

BI 232 Human Anatomy and Physiology 2 ..................4 credits
Prerequisite: Grade of ‘C-’ or better in BI 231. BI 232 Topics include anatomy and physiology of central and peripheral nervous systems, special senses, endocrine, cardiovascular, lymphatic and immune systems. Common clinical applications associated with the topics above are presented. May be offered online.

BI 233 Human Anatomy and Physiology 3 ..................4 credits
Prerequisite: Grade of ‘C-’ or better in BI 232. BI 233 Topics include respiratory, digestive, urinary, endocrine, and reproductive systems. Also included are concepts of genetics, inheritance patterns and disorders. Common clinical applications associated with the topics above are presented. May be offered online.

BI 234 Introductory Microbiology ..............................4 credits
Prerequisite: Grade of ‘C-’ or better in BI 233 or instructor consent.
A medically oriented survey of pathogens that includes cell biology, host-microbe interactions, body defenses, microbial control, and pathogenesis, prevention and treatment of infectious diseases. Labs emphasize aseptic technique and methods of culturing, staining, isolation, and identification.
**Anthropology**

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

**ANTH 101 Physical Anthropology** ................................................. 4 credits
An introduction to the study of human evolution, with the goal of understanding humans as part of the natural world and as organisms shaped by their evolutionary past. The course covers the basic processes of evolution, the early human fossil and archaeological record, primate behavior and human genetic variability. May be offered online.

**ANTH 102 World Archaeology** .................................................. 4 credits
This course traces the transition of human societies from a predominantly hunting and gathering 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 103 Cultural 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 227 Prehistory of Mexico** ............................................... 4 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 an accurate knowledge and understanding of these cultures as is presently possible.

**ANTH 228 Cultures of Mexico** ................................................ 4 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 Chicano Culture** .................................................... 4 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 course focuses on the people and cultures indigenous to America west of the Rockies: California, Pacific Northwest, Plateau, and Great Basin areas. Kwakiutl, Shoshone, and Pomo cultures are emphasized. Course design as described for ANTH231 and may be taken out of sequence.

**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 people and cultures indigenous to America west of the Rockies: California, Pacific Northwest, Plateau, and Great Basin areas. Kwakiutl, Shoshone, and Pomo cultures are emphasized. Course design as described for ANTH231. May be taken out of sequence.

**Apprenticeship**

For information about course content or other questions, visit boli.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 career. Students will explore current trends in Apprenticeship and basic requirements 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 handling, in addition to basic communication and employability skills.

Note: This class may be taken to satisfy the 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 variety of trade careers. 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 handling, in addition to basic communication and employability skills.

**APR 105 Electrical Wiring for the Trades** ............................... 4 credits
This course is designed to familiarize the student with work tasks 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 student 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 plumbing practices and completion of minor repairs. In this beginning course, basic plumbing concepts and exposure to tools, safety practices, 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 fundamental construction math concepts utilized by professional carpenters. Floor, wall and ceiling framing systems are presented as well.

**APP 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 concrete, tools used in residential and light commercial roofing. Application methods, commercial plans, insulation and vapor barrier materials and installation will also be covered, as well as exterior finish materials and application procedures.
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 ceiling systems. 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 
Prerequisite of MTH 060 or 065 or MTH 070 within the past two years, or place at MTH 060 or higher on placement test through the Testing Office. 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 program. Course content will cover basic AC theory, series/parallel circuits, mathematical formulas, conduit bending, use of test equipment, 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 third term of the first year of general journeyman inside wire electrician program. This class is designed to cover hands-on demonstration and practicals of basic residential one- and two-family dwellings wiring techniques to include receptacles, services, lighting, wiring, conduit bending, structural wiring, and introduction to residential data communication systems.

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 first term of the second year of general journeyman inside wire electrician program 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, generators, and transformer theory, and 3-phase power, and commercial installations and calculations. All course content will include references 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 second term of the second year of general journeyman inside wire electrician program. General topics include safety/electrical, hazardous locations, health care facilities, industrial and commercial wiring, and references to applicable NEC Articles.

APR 135 Electrical, Generators, Transformers, and Motors Lab .................. 3 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 program. Course will include hands-on experience in basic wiring 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 Devices, Testing Equipment and Code .................. 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 the operation of low voltage systems. Students will gain knowledge of the basic theory, vocabulary and safety practices used in hook ups, 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, 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 Communications .................. 4 credits 
Designed for Oregon state-recognized apprentices employed in a trade or industry related occupation. This course explores wire line and communications, as well as site survey and project planning. An emphasis is placed on the operations and principles involved in troubleshooting and the skills necessary to perform as a successful crew leader. Students will learn basic theory, vocabulary and safety practices common to maintenance and repair, wireless communications and project planning.

APR 150 The Millwright and Shop Safety .................. 5 credits 
Prerequisite: Minimum reading score of 68. Within the past four terms, completed MTH020 or higher with a grade of “C-” or better or placed into MTH 075 through the Testing Office. 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 
Prerequisite: Minimum reading score of 68. Within the past four terms, completed MTH020 or higher with a grade of “C-” or better or placed into MTH 075 through the Testing Office. Designed for Oregon state-recognized apprentices employed in the millwright trade. Students will learn trade calculations as they pertain to the millwright industry. This course will provide students with hands-on experience using Mic’s, calipers and various precision measuring equipment. Students will gain knowledge in the use of metal lathes, milling equipment, boring, keyway cutting, and other facets of machine work.

APR 152 Millwright: Power Transmissions and Boilers-Steam .................. 5 credits 
Prerequisite: Minimum reading score of 68. Within the past four terms, completed MTH020 or higher with a grade of “C-” or better or placed into MTH 075 through the Testing Office. 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, applications, and advantages/disadvantages). Students will learn all steam functions and the precautions necessary to be aware of during installation 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-basics offset, common tools and materials, plumbing drawings, and 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. This course reviews methods for finding angles using the Pythagorean Theorem. Students will interpret and use civil, architectural, structural, mechanical plumbing and electrical drawings when working with plumbing systems and equipment. The course will cover 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. This course reviews methods for finding angles using the Pythagorean Theorem. Students will interpret and use civil, architectural, structural, mechanical plumbing and electrical drawings when working with plumbing systems and equipment. The course will cover 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 164 Plumbing Basic Installation 1**
- 4 credits
- Designed for Oregon state-registered apprentices employed in the plumbing trade. This 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 165 Plumbing Basic Installation 2**
- 2 credits
- Designed for Oregon state-registered apprentices employed in the plumbing trade. This course will include review of proper installation and testing techniques that apply to water heaters. Identification, troubleshooting and repair of water heaters, fixtures, valves, and faucets will also be included along with federal guidelines. Code requirements will be included for each section.

**APR 170 Introduction to Sheet Metal Apprenticeship**
- 4 credits
- Designed for Oregon state-registered apprentices employed in the sheet metal trade. The course content will include 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 shop equipment 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 layout work. This course will be competency-based and modular in format. This course introduces students to different types of reinforcing materials, including cutting, bending and splicing, concrete joint sealants, and form removal procedures. In addition, students will learn procedures and techniques for both deep and shallow foundations, as well as those required for slab-on-grade concrete work.

**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 185 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.

**APR 186 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, setup, and use of GMAW equipment. Preparing weld test specimens and performing weld tests is included in this course.

**APR 187 Fundamentals of Metallurgy**
- 1-3 credits
- Prerequisite: MTH060 or higher with a grade of “C-” or better, or pass a placement test through the Testing Office. First course in a two-term sequence in metallurgy 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 proper 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.

**APR 191 Electrical Theory 1**
- 1-4 credits
- Prerequisite: ET 129, EET 129, or APR 190. 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 RLRC transient circuits. In the lab students will build and troubleshoot basic AC circuits using the oscilloscope, function generator, and DMM. May be offered through Distance Learning.

**APR 201 Carpentry 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 different types of reinforcing materials, including cutting, bending and splicing, concrete joint sealants, and form removal procedures. In addition, students will learn procedures and techniques for both deep and shallow foundations, as well as those required for slab-on-grade concrete work.

**APR 202 Carpentry 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 different types of reinforcing materials, including cutting, bending and splicing, concrete joint sealants, and form removal procedures. In addition, students will learn procedures and techniques for both deep and shallow foundations, as well as those required for slab-on-grade concrete work.

**APR 203 Carpentry Forms and Tilt-up Panels**
- 3 credits
- Designed for Oregon state-recognized apprentices employed in the carpentry trade. This course introduces students to the applications and construction methods for various types of forming and form hardware systems utilized in both vertical and horizontal concrete formwork. Students will also learn the methods and materials utilized in the construction of tilt-up wall panels, including forming, rebar, and embeddings, as well as architectural and decorative finishes.

**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 intended for Oregon state-recognized apprentices working in the HVAC/R trade.

**APR 211 HVAC Systems 2**
- 4 credits
- This is the second course of a three term sequence in HVAC theory and application. This course continues with the identification of basic systems common to this industry. Topics include duct work and fan systems. This course is required for Oregon state-recognized apprentices working in HVAC/R trade.
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, soldering and brazing will be covered, along with techniques of fusing copper, brass, and plastic. This class is designed for Oregon state-recognized apprentices employed in the HVAC/R trade.

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 electrical problems, pneumatic controls and control valve components and perform heat pump installation. This class is designed for Oregon state-recognized apprentices employed 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 through the Oregon 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.

APR 226 Electrical Grounding/Bonding and Blueprint Reading.................................................. 5 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course is the second term of the third year of the general journeyman inside wire electrician Apprenticeship related training. General topics include safety/electrical safety, electrical theory, electrical math, grounding and bonding fundamentals, blueprint reading and sketching, and basic electrical design.

APR 227 Electrical System Troubleshooting.......................................................... 3 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. Course will include hands-on training to introduce students to concepts of electrical systems troubleshooting. Students will identify faults using digital multi-meters and troubleshooting concepts.

APR 240 Audio and Intrusion Systems........................................... 4 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course explores the theory and safety practices employed in audio and intrusion detection systems along with the NEC codes that regulate their use and installation. Students learn basic theory, vocabulary and safety practices common to alarm systems.

APR 241 Fire Alarm Systems and Nurse Call........................................ 4 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course explores the theory and safety practices employed in audio, nurse call, CCTV and Broadband systems along with the NEC codes that regulate their use and installation. Students will gain knowledge consisting of the basic theory, vocabulary and safety practices common to audio and nurse call systems.

APR 242 Limited Voltage System Integration........................................ 4 credits
Designed for Oregon state-recognized apprentices employed in a trade or industry-related occupation. This course explores the theory and safety practices employed in access control systems and media management systems along with methods of system integration and user training. Students will learn a knowledge base consisting of the basic theory, vocabulary and safety practices common to control and media management systems, and systems integration.

APR 250 Millwright: Industrial Print Reading, Schematics, and Estimating................................. 5 credits
Prerequisite: Minimum reading score of 68. Within the past four terms, completed MTH020 or higher with a grade of “C-” or better or placed into MTH 075 through the Testing Office. Designed for Oregon state-recognized apprentices employed in the millwright industry. Course will include a review of orthographic projection, isometric, and schematic drawings used to show piping, hydraulic, and pneumatic systems, industrial automation, and conveyor system. Discussion and lab work will include an overview of several types of prints, their symbols and abbreviations, the company that makes up a print and the various lines used within them. Students will practice take-off’s and bid proposals using various sets of industrial prints to provide cost estimations.

APR 251 Millwright: Pneumatics and Lubrications........................................ 5 credits
Prerequisite: Minimum Reading Score of 68. Within the past four terms, completed MTH020 or higher with a grade of “C-” or better or placed into MTH 075 through the testing office. 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 special requirements of lube 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
Prerequisite: Minimum reading score of 68. Within the past four terms, completed MTH020 or higher with a grade of “C-” or better or placed into MTH 075 through the Testing Office. 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
Prerequisite: Minimum reading score of 68. Within the past four terms, completed MTH020 or higher with a grade of “C-” or better or placed into MTH 075 through the Testing Office. 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. This 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 of the course. General topics include safety in the workplace, 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.................................... 2-4 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 specifications 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 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 274 Sheet Metal Shop Fabrication 4 credits Designed for Oregon state-recognized apprentices employed in the sheet metal trade. The course progresses from electrical safety to electrical symbols and prime movers and the circuit elements used in their controls. The course will include discovery of actual installations, safety equipment and practices applicable to this trade.

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.

APR 285 Motors 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. Transformers and power distribution systems will be studied along with adjustable frequency AC drives and stepper motors.

APR 286 Motors 2 1-4 credits Prerequisite: ET 229 or APR 285. This course is a continuation of 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 diagrammatic 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.

APR 290 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.

APR 291 Programmable Controllers 2 1-4 credits Prerequisite: ET 234 or APR 290. This class provides an introduction to the robot and its capabilities and explores the various tasks that robots are programmed to perform.

APR 292 Programmable Controllers 3 4 credits Prerequisite: ET 235 or APR 291 and 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 step-and-motors.

Architecture - See Drafting

Art History

For information, contact the Art and Applied Design Department, Bldg. 11/ Room 101, 541.463.5400.

ARH 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.

ARH 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. Ancient Greece and Rome to the 20th century Modern Era. May be offered through Distance Learning.

ARH 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.

ARH 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. See lanecc.edu/honors for information. 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. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

ARH 204 History of Western Art 1 3 credits Historical survey of the visual arts from prehistory to the fall of the Roman Empire. Examines the role of art within emerging cultures and civilizations, the relationship of art to social, political and philosophical contexts, and connections of past art and culture to the present.

ARH 205 History of Western Art 2 3 credits Historical survey of the visual arts from the early Christian era through the High Renaissance in Europe. Examines the relationship of art to religion within a social, historical, political and philosophical context, and explores how these connections relate to the present.

ARH 206 History of Western Art 3 3 credits Historical survey of the visual arts from the 16th to the late 19th century, with an emphasis on the Western world. Examines the role of art in the emergence of modern societies and nations, and how political and philosophical contexts are revealed in art, and explores how these connections relate to the present.

ARH 207 Arts of India 3 credits A survey of the art and architecture of South-Central Asia from the Indus Valley Civilization to the Colonial Period. Works and monuments are used to explore the traditions and contexts of Indian art and history, with a particular look at the art of Buddhist, Hindu, and the Mughal cultures.

ARH 208 Arts of China 3 credits A survey of the art and architecture of China from the Neolithic era to the 18th century. Works and monuments are used to explore the traditions and contexts of Chinese and East Asian culture throughout its history. Major topics include Chinese archaeology, Imperial Chinese culture, religious and philosophical traditions such as Daoism and Confucianism, the impact of Buddhism, Chinese architectural forms, and ink painting and landscape traditions.

ARH 209 Arts of Japan 3 credits A survey of the art and architecture of the Japanese islands from the indigenous Jomon culture to the 19th century. Works and monuments are used to explore the traditions and contexts of Japanese culture as it developed throughout its history. Major topics include ancient pottery, the emergence of the Japanese state and imperial culture, the impact of Buddhism, Japanese architectural forms, the shogunates and warrior culture, and the interchanges between Japan and other cultures.
**ARH 211 Early Modern Art: 1850-1910**
3 credits
Historical survey of the development of early "modern" art from the mid-19th century to the beginning of the 20th century. Examines the major themes and trends within the arts, focusing on Impressionism, Post Impressionism, and Cubism. Explores the impact of these artistic developments on later art and society.

**ARH 212 Twentieth-Century Art**
3 credits
Historical survey of 20th-century art. Examines key artists, styles and movements within a social, philosophical and political context. Course emphasizes developments during first half of the century, but which inform the visual arts today. Includes presentations by practicing artists to provide connections to art in our current time.

**ARH 214 Arts of the United States**
3 credits
A historic study of the artistic traditions of the United States from the Colonial period to the early modern era. Works are used to investigate the cultural traditions of the country as they reflect its growth and development. Major topics will include Colonial portraiture, landscape and place in 19th century art, nationalism and historical moments, the West as a cultural idea, the impact of industrialism and urban culture, and early developments in modernism. May be offered online.

**ARH 217 Islamic Art and Architecture**
3 credits
A historic study of the artistic traditions of the United States form the Colonial period to the early modern era. Works are used to investigate the cultural traditions of the country as they reflect their growth and development. Major topics will include Colonial portraiture, landscape and place in 19th century art, nationalism and historical moments, the West as a cultural idea, the impact of industrialism and urban culture, and early developments in modernism. May be offered online.

**ARH 218 History of Photography: 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 explore the development of specific types of photography and how each type influenced worldview. Photographs are examined in both cultural and critical terms, allowing students to think critically about photographs as well as their place in society. It requires the student to develop information literacy skills, as well as to improve basic research and writing skills. May be offered online.

**ARH 219 History of Photography: 1910-1950**
3 credits
An exploration of the origins of photography from 1910 to 1950. Course modules explore the development of specific types of photography and how they influenced the worldviews. Photographs are examined in cultural and critical terms, allowing students to think critically about photographs as well as their place in a society. The course may be taught via distance learning, and requires the student to develop information literacy skills, as well as to improve basic research and writing skills.

**ARH 220 History of 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 photography to significant cultural, political, and artistic trends of the recent past.

**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. See lanec.edu/honors for information. Beginning course in two-dimensional design for art and non-art majors. Emphasis on fundamental visual elements, concepts and theory basic to drawing, painting, graphic design and sculpture. Strongly recommended for first year art majors, taken prior to ART116 and concurrently with ART111 and ART131. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

**ART 116 Basic Design: Color**
3 credits
Fundamental course in color theory. Emphasis on color theory and 2D design concepts in multiple media and processes. Student will participate in critiques, discussions and presentations of the historical and contemporary context of the use of color. Student will create and analyze projects that demonstrate critical and creative thinking and knowledge of color theory and practice. Recommended students first take ART 115.

**ART 117 Basic Design: 3-Dimensional**
3 credits
Beginning course on the fundamental principles of three-dimensional design for art and non-art majors. Studio projects explore and develop fundamentals such as mass, physical texture, mass, volume and space, and planes in space. A foundation course for students interested in ceramics, sculpture, architecture, and other three-dimensional design fields.

**ART 118 Artist Books and Pop-up**
4 credits
Students will design and create original artist's books, (intentional works of art created in the form of a book) using a variety of basic movable book structures and pop-up techniques. Curriculum will also focus on design process development, conceptual development and typographic layout. Coursework will demonstrate critical and creative thinking and applied learning via the knowledge and techniques of paper engineering and the history and aesthetics of the movable and pop-up books. Recommended for Art and Applied Design majors as well as non-majors. May be repeated up to 9 total credits.

**ART 120 Intermediate Artist Books and Pop-up**
4 credits
Prerequisite: ART118 An artist book is an intentional work of art created in the form of a book. Students will create basic folded and stitched books and learn pop-up techniques. Topics: design process, conceptual development, typographic layout; history of movable, fine press and artist books.

**ART 131 Introduction to Drawing**
3 credits
Fundamental course in drawing media. Emphasis on basic concepts of drawing and developing skills in perception, representation, composition and use of traditional drawing materials. Student will engage with critiques, discussions and the historical and contemporary context of drawing as an art form. Student will create and analyze projects that demonstrate critical and creative thinking the knowledge of drawing theory and practice. This course or equivalent ability level is a prerequisite for many 200-level studio courses. Recommend art majors take concurrently with ART 115. May be repeated up to 9 total credits.

**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. Emphasis on further development and exploration of drawing skills of observation, representation, composition, thematic development and critical analysis begun in ART131. Student will create and analyze projects that demonstrate critical and creative thinking and which demonstrate individual exploration of process and content. Individual and group
critiques, discussions and presentations will expand the students’ perceptions of the artistic process and drawing practice 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 the study of interior-exterior space using isometric, one-point, two-point and three-point perspective systems and axonometric projection. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 9 total credits.

ART 234 Drawing: Figure .......................................................... 3 credits
Prerequisite: ART 131. Fundamental course in figure drawing. Students will develop representation of basic anatomical structure, proportion, foreshortening, and explore complex form relationships in value and space through drawing the human figure. Students will create and analyze projects that demonstrate creative and critical thinking, develop skills in composition, modes of individual expression, and examine the portrayal of the figure through art historical theory and context. May be repeated up to 9 total credits.

ART 240 Natural Science Drawing ............................................. 3 credits
Natural Science Drawing introduces students to creating representational renderings through close observation of natural subjects including botanical, animal, insect, and aquatic life. Emphasis is on accuracy, form and structure. Suitable for art, science, and general study students. Repeatable 3 times.

ART 245 Drawing for Media ....................................................... 4 credits
From conception to finished project, the perspective system and technical proficiency will be taught and communicated visually is an essential skill for media professionals. This course teaches pre-production design and drawing techniques and practices valuable to a career in media. Students will work with materials and learn methods used for concept development, design and production. The practice of drawing will be integrated into the visualization process through the production of concept sketches, thumbnails, and storyboards. Primary focus will be on graphic development of ideas for visual communication.

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. Emphasis on basic hand building skills, simple 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 pottery 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 how to conduct hand building, hand painted or painted 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 throwing 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 255 Alchemy of Ceramics: Materiality, Chemistry, and Kiln Firing .................................................. 3 credits
Prerequisite: ART 250. This course explores the basics of ceramic chemistry, materials and kiln firing practices. This information leads to experimentation, testing for various firing ranges, color, and textural possibilities which enhances student material literacy, personal direction and goals in their studio work.

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: two- and three-dimensional fiber construction; art quilt construction, feltmaking, bookbinding, papermaking, and fabric printing; natural and synthetic dyes; resist tech, and the knowledge of technical collage and monotype printmaking and the history and aesthetics of the medium. Recommended for Art and Applied Design majors as well as non-majors. May be repeated for up to 9 total credits.

ART 270 Printmaking: Traditional and Digital Etching ............... 3 credits
A beginning level course in non-toxic intaglio printmaking involving etching and printing using copper plates as the matrix. Traditional processes such as line etch, aquatint, drypoint, and engraving as well as digital photo etching processes will be explored. Students will design and create original editioned prints and learn perceptual skills, compositional development, and basic thematic awareness. Coursework will demonstrate critical and creative thinking, the knowledge of technical intaglio printmaking and the history and aesthetics of the medium. Recommended for Art and Applied Design majors as well as non-majors. May be repeated for up to 9 total credits.

ART 271 Printmaking: Woodcut and Linocut ............................. 3 credits
A beginning level course in relief printing, including woodcut, linoleum cut and wood engraving. Students explore techniques involved in relief printmaking to design and create original edition prints. Single block, multiple block, and reduction block techniques are introduced as well as the aesthetics and history of printmaking. Students will design and create original editioned prints and learn perceptual skills, compositional development, and basic thematic awareness. Coursework will demonstrate critical and creative thinking, the knowledge of technical relief printmaking and the history and aesthetics of the medium. Recommended for Art and Applied Design majors as well as non-majors. May be repeated for up to 9 total credits.

ART 272 Printmaking: Experimental Processes ................. 3 credits
A beginning level course in monotype and collage plate printmaking. Students explore techniques involved in creating original prints and combining processes. A variety of techniques are introduced as well as the aesthetics and history of printmaking. Students will design and create original editioned prints and learn perceptual skills, compositional development, and basic thematic awareness. Coursework will demonstrate critical and creative thinking, the knowledge of technical collage and monotype printmaking and the history and aesthetics of the medium. Recommended for Art and Applied Design majors as well as non-majors. May be repeated up to 9 total credits.

ART 273 Printmaking: Intermediate Traditional and Digital Etching .......................................................... 3 credits
Prerequisite: ART 270A course or non-majors. This course explores traditional and digital intaglio etching techniques. The class is an in-depth study for students wanting to continue with Intaglio printmaking. Students will design and create original editioned prints and learn perceptual skills, compositional development, and basic thematic awareness. Coursework will demonstrate critical and creative thinking, the knowledge of technical intaglio printmaking and the history and aesthetics of the medium. Recommended for Art and Applied Design majors as well as non-majors. May be repeated up to 9 total credits.

ART 274 Printmaking: Intermediate Woodcut and Linocut . 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 Screen Printing** ................................. 3 credits A beginning course in screen printing. Explores traditional and experimental techniques using water-based and textile inks and emphasizes skill development, personal image making, and the creation and applications of editioned prints. Students explore established 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-mind 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, fusion 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 sculptural construction and carving techniques, and their application in 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 studies in bas-relief 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 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 Fundamental course in painting media (acrylic). Emphasis on basic concepts of painting and developing skills in perception, representation, composition, color, and use of traditional painting materials. Student will create and analyze projects that demonstrate critical and creative thinking. Individual and group critiques, discussions and presentations will expand the students' perceptions of the artistic process and painting practice and theory within historical and cultural contexts. May be repeated up to 9 total credits.

**ART 284 Painting: Intermediate** .......................... 3 credits Prerequisite: ART 281. An intermediate-level course in oil painting. Course 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 inking and theory. The curriculum builds on the 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 new methods 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 292 Design Art for Public Places** ......................... 4 credits Prerequisite: ART 115. Students will learn the politics, methods and execution of public art. They will examine case studies of the interface of art and the public, from an historical as well as an aesthetic and socio-political perspective, as well as work on a design project for a pre-determined public space.

**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, drawing experience, or instructor consent. A beginning course in watercolor for art and non-art majors. An intensive study of watercolor media, history, practice, 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 Prerequisite: ART 294, previous college watercolor class, or instructor consent. An intermediate level course in watercolor for art and non-art majors. Emphasis on further development and exploration of technical watercolor skills, concept, composition development and critical analysis. Students create and analyze projects that demonstrate critical and creative thinking, knowledge of watercolor media, history, and practice. May be repeated up to 9 total credits.

**ART 296 Mural Painting Class** ............................... 3-12 credits Prerequisites: ART 115 and ART 116. Students will learn hands-on about the execution of a mural, either indoor or outdoor, depending upon available client and space, by painting a mural with the instructor. Location will be determined by available space and client and agreed upon by both the college and any community partners involved.

**Astronomy - See Physics**

**Audio - See Media Arts**

**Auto Collision and Refinishing**

For information, contact the Advanced Technology Division, Bldg. 15/Rm. 201, 541.463.5380. You must be accepted into the Auto Collision and Refinishing program to take these classes.

**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.

**COURSES DESCRIPTIONS**

**Art, Studio - Auto Collision and Refinishing - Automotive**

**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 brake systems, and repair of ABS brakes.
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 transaxles and transaxles systems Theories and principles. 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
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
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
Prerequisites: AM 244 and AM 245 and AM 246 and AM 248 and 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.

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. Included: temperature and pressure 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 .................................. 1-3 credits
This course provides automotive-related learning 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 will develop skills, explore career options and network with professionals and employers. Students earn college credit, which may apply toward a degree.

Course Offerings

Aviation Maintenance

Also see Flight
For information, contact the Lane Aviation Academy, Airport Road, 541.463.4199. You must be accepted into the Aviation Maintenance program to take these classes.

AV 192 General 101 .................................................. 6 credits
Prerequisites: 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 .................................................. 6 credits
Prerequisites: 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 .................................................. 6 credits
Prerequisites: 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 .................................................. 6 credits
Prerequisites: 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 .................................................. 6 credits
Prerequisites: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 OR Prior College. Aircraft and engine fuel systems, 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 .................................................... 6 credits
Airframe structures, systems, and components. Technical information and laboratory projects to apply and understand theories, principles, and concepts.

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 skills, explore career options and network with professionals and employers. Students earn college credit, which may apply toward a degree.

AV 281 Powerplant .................................................. 6 credits
Powerplant maintenance, 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 282 Airframe Return to Service ................................ 6 credits
Prerequisites: AV 192, AV 193, AV 194, AV 195, AV 196, MTH 075, and MTH 085. Airframe structures, systems, and components. Technical information and practical application of theories, principles, and concepts.

AV 283 Powerplant Return to Service ........................ 6 credits
Prerequisites: AV 192, AV 193, AV 194, AV 195, AV 196, MTH 075, and MTH 085. Powerplant systems and components. Technical information and practical application of theories, principles, and concepts.

AV 289 Helicopter Maintenance .............................. 1-3 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 ............................................. 4 credits
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 101E General Biology-Ocean Life Foundations .......... 4 credits
Basic cellular and organismal processes. Emphasis on how marine
This course introduces students to the rapidly evolving and increasing importance of microbes. Microbes 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 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 102C General Biology-Marine Biology 4 credits

Overview of the structure and function of tissues, organs, and organ systems in marine invertebrate phyla and selected marine vertebrates like fish and sharks. Examines how organisms maintain homeostasis in various conditions. Activities: lab, computer activities, lecture, group projects and discussion.

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 how different cultures relate 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 102H General Biology-Forest Biology 4 credits

Students learn the structural and physiological adaptations of North-west 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-Unseen Life on Earth 4 credits

An introduction to the cellular biology of the smallest organisms on earth. Microbes 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 102K 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. See lanecc.edu/honors for information. BI 101 topics: atoms, molecules, cellular processes, genetics, protein synthesis, photosynthesis, respiration. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

BI 102_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. See lanecc.edu/honors for information. BI 101 topics: atoms, molecules, cellular processes, genetics, protein synthesis, photosynthesis, respiration. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

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 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 103B General Biology: Sea Birds and Mammals 4 credits

Through field, classroom, and laboratory work students identify and classification of major trees, shrubs and wildlife through extensive field work. Explores importance of forests to humans. Required field trips.

BI 103C 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

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 103F General Biology-Wildflowers of Oregon 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 103G General Biology: Global Ecology 4 credits


BI 103H General Biology-Mushrooms 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 103K General Biology: Animal Behavior 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 103L General Biology: Evolution & Diversity 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 104 General Biology 4 credits

BI 104 topics: human body systems, their structure, function and their place in the ecology of the areas we study. Required Saturday or Sunday trips to the Cascades and Central Oregon Coast.

BI 105 General Biology: Forest Ecology 4 credits

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 106 General Biology: Animal Behavior 4 credits

Students learn evolution and ecology through study of 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 107 General Biology: Marine 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 108 General Biology: Evolutionary Genetics 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 109 General Biology: Marine 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 110 General Biology: Evolutionary Genetics 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 111 General Biology: Marine 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 103M General Biology: Biodiversity and Sustainability ......................................................... 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 112 Cell Biology for Health Occupations ................................................................. 4 credits
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 ......................................................................................... 4 credits
Prerequisite: MTH 095 with grade of ‘C-’ or better or placement into MTH 111 or higher on math placement test. 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 ......................................................................................... 4 credits
Prerequisite: 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 ......................................................................................... 3-12 credits
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 ....................................................................................... 4 credits
Prerequisite: BI 212 or instructor consent. Designed for Life Science majors. Topics: ecology, examining 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.

GS 101 General Science (Nature of the Northwest) .................................................... 4 credits
Introduction to the geology, plants and animals in Central Oregon and along the Pacific coast. Students identify rocks, flora and fauna and look at the biodiversity between habitats on required field trips. Includes environmental issues and a scientific inquiry project.

Z 213 Principles of Zoology .......................................................................................... 4 credits
Prerequisite: Grade of ‘C-’ or better in BI 211 and BI 212 or instructor consent. Survey of comparative vertebrate anatomy, vertebrate evolution, behavior, and ecology. Skills: dissection, digital documentation, cladogram construction, and mathematical models in biology. Designed for Life Science Majors. College-level writing and math skills strongly encouraged.

Botany - See Biology

Broadcasting - See Media Arts

Business

Also see Accounting, Administrative Assistant, Computers

For information, contact the Business and Computer Information Technology Division, Bldg. 19/Room 137, 541.463.5221.

BA 101 Introduction to Business .................................................................................... 4 credits
A survey course covering basic concepts and language of business, including the functional areas of business; management, marketing, accounting and finance, and human resource management; and the legal environment. Students will participate in a team project to conduct an analysis of a local business and present their findings in a report. May be offered online.

BA 206 Management Fundamentals ............................................................................. 3 credits
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 ............................................................................... 4 credits
Prerequisites: BT 108 and WR 121. Introduction to communication theory with emphasis in writing direct, indirect, and persuasive letters; and a formal research paper. Introduction to appropriate formatting of business documents using proper grammar, formatting, tone, and effectiveness. Business-related presentations that inform, recommend, and train will be given. May be offered online.

BA 223 Marketing ......................................................................................................... 4 credits
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 career development; pay systems; employee benefits, safety, and health; and labor unions. May be offered online.

BA 226 Business Law ..................................................................................................... 4 credits
This course 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
Prerequisites: 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 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, BA 223, and BT 221. 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 skills, 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 278 Leadership & Team Dynamics ......................... 4 credits
This course focuses on developing the leadership potential of emerging leaders, and it also enhances students’ understanding of teamwork. Students will increase their effectiveness as team members. Leadership philosophies, ethical issues, articulating visions, and ways to empower others will be explored through readings, activities, and discussions. May be offered online.

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.

BA 280CS Co-op Ed: Customer Service ..................... 3-12 credits
Completion of BT 206 is highly recommended. In this internship course students will gain customer service 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.

BA 281 Personal Finance ......................................... 4 credits
As a comprehensive introduction to personal finance, the course covers budgets, real estate, consumer credit, credit institutions, insurance, investing, stocks, bonds, retirement planning, and mutual funds. Analytical tools are applied to optimize personal decision-making. May be offered online.

BT 181 Customer Service ......................................... 4 credits
Learn basic concepts of high-quality customer service and practice applying these concepts to real life situations. This course focuses on developing an attitude of superior customer service which is critical to success in all organizations.

BT 206 Co-op Ed: Business Seminar ......................... 2 credits
Prerequisite: BA 101 and BT 120. Students will increase their understanding of industry expectations as well as 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.

BT 291 Operations Management ............................. 3 credits
Prerequisite: Grade of 'C-' or better in CH 222 First course of organic chemistry sequence designed for science, engineering and health science majors, with a significant figures, dimensional analysis, density, nomenclature, atoms, stoichiometry, gases, solutions and heat; includes problem solving methods and calculations. Lecture/Recitation.

CH 112 Chemistry for Health Occupations ................ 4 credits
Prerequisite: Grade of C- or better in CH 104 or instructor consent. The second 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 106 Introduction to Organic and Biological Chemistry .. 5 credits
Prerequisite: Grade of C- or better in CH 104 or instructor consent. The second term of the standard General, Organic and Biological Chemistry sequence. This introduction to organic and biological chemistry includes hydrocarbons, alcohols, aldehydes, carboxylic acids, carbohydrates, lipids, proteins and an introduction to metabolic pathways. Lecture and lab.

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 may 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 221 General Chemistry ....................................... 6 credits
Prerequisite: MTH 095 with grade of "C" or better or place into MTH 111 or higher on math placement test. First course in the traditional general chemistry sequence designed for science, engineering and health science majors. Introduces measurement, atoms, stoichiometry, gases, thermochemistry and electronic structure and periodicity. Lecture and laboratory with online lecture for Laboratory. Lab emphasizes green chemistry.

CH 221S Chemistry Problem Solving .......................... 1 credits
Corequisite: CH 221. Intended to improve success in CH 221. Covers study skills and problem solving strategies and gives additional structured practice with CH 221 lecture and lab topics. For students with little or no previous experience in chemistry as well as those wanting additional practice. Lecture/recitation.

CH 222 General Chemistry 2 .................................... 6 credits
Prerequisite: Grade of C- or better in CH 221. Second course of the traditional general chemistry sequence designed for science, engineering and health science majors. Builds on previous topics and includes applications of equilibrium, acid/base chemistry, redox/electrochemistry, thermodynamics, nuclear chemistry and introductory organic chemistry. Lecture and laboratory with hybrid lab lecture. Lab emphasizes real world applications.

CH 223 General Chemistry 3 .................................... 6 credits
Prerequisite: Grade of C- or better in CH 222. Third course of the traditional general chemistry sequence designed for science, engineering and health science majors. Builds on previous topics and includes applications of equilibrium, acid/base chemistry, redox/electrochemistry, thermodynamics, nuclear chemistry and introductory organic chemistry. Lecture and laboratory with hybrid lab lecture. Lab emphasizes real world applications.

CH 241 Organic Chemistry ....................................... 6 credits
Prerequisite: Grade of C- or better in CH 222 First course of the 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 ................................................. 6 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 carbonyl systems, nitrogen containing organic compounds, conjugated/aromatic systems, and organic compounds of biochemical significance. Lecture and laboratory.

CH 243 Organic Chemistry .................................................. 6 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. GS 105 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.

COMM 105 Listening and Critical Thinking ......................... 4 credits
This course is designed to help students learn to express their ideas to an 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 will learn to become critical listeners by analyzing and critiquing other students’ presentations.

COMM 111_H Fundamentals of Public Speaking-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. See lanec.edu/honors for information. This course is designed to help students learn to express their ideas to an 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 will learn to become critical listeners by analyzing and critiquing other students’ presentations.

COMM 112 Persuasive Speech ............................................. 4 credits
This course is designed to help students understand the persuasive communication process so that they can prepare effective persuasive presentations and evaluate persuasive messages. Students will develop their proficiency through speech preparation and presentation, written analyses, and argumentation practice.

COMM 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 different values, beliefs, attitudes, and social systems effect verbal and nonverbal human communication behaviors. Students will develop awareness, understanding, and sensitivity to cultural diversity of cultures as well as different nations. May be offered online.

COMM 130 Business and Professional Communication ....... 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. Instruction includes interpersonal communication, small group communication, interviewing, proposal presentation and more. In addition, attention will be given to presentation aids, both traditional and computer generated. May be offered online.

COMM 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, and relationship development. May be offered online.

COMM 219 Small Group Communication ............................ 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 consider the unique challenges found only in group communication setting. Students will have the opportunity to participate in a variety of small groups activities as well as an on-going group that presents a solution to a problem.

COMM 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, and culture interact to influence perceptions and expectations of gender roles. May be offered online.

COMM 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
CIS 100 Computing Careers Exploration .................. 1 credits
This course provides an orientation for students who are considering programs of study and careers in computer information technology. 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, professional development, and ethical issues that confront computer information professionals.

CIS 101 Computer Fundamentals .......................... 4 credits
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, database, and Internet software. May also be offered through Distance Learning.

CIS 102 Problem Solving with Computers ................ 4 credits
CIS 102 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 offered online.

CIS 125D Software Tools 1: Databases .................. 4 credits
Prerequisite: Basic computer literacy skills. Fundamental relational database concepts, vocabulary, functionality and skills are covered. Students will apply those skills in a series of hands-on case problems where they design, implement, test, debug and document relational database solutions to case problems.

CIS 125G Software Tools 1: Game Development ....... 4 credits
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.

CIS 125M Software Tools: Mobile Development ........ 4 credits
This course provides students with basic knowledge of mobile computing, and introduces them to computer application development for the Android platform. 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.

CIS 125WV Introduction to Virtual Worlds .............. 4 credits
This course is an introduction to virtual worlds. 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.

CIS 125W Software Tools 1: Web ....................... 3 credits
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 Web 2.0, 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 Web 2.0 technologies that are important in online business, social networking and computer-based collaboration.

CIS 126 Game Design: Principles and Practices ....... 4 credits
In this course, students will learn and apply game design principles in order to turn their ideas into interesting and engaging games. Students will develop and refine these ideas through prototyping and testing throughout the course. No prior programming background is required for this course.

CIS 135G Software Tools 2: Game Development ....... 4 credits
Prerequisite: CIS 125G and one of CS 162J, CS 162C+, or CS 233N or instructor’s permission. This course builds upon the material covered in CIS 125G. Topics covered include physics simulation, user controls, graphical methods, animation issues, and script writing for game building tools. Students will work with an industry standard game development engine and will design and create several games.

CIS 140U Introduction to Unix/Linux ..................... 4 credits
Introduces the Unix/Linux operating system. Topics: Fundamental Unix/Linux command set, editors, shell scripts, file system security, and installation of the operating system. Provides experience using the graphical user interface as well as the command line to perform end-user operations and basic system administration.

CIS 140W Introduction to Operating Systems: Windows Clients ............................................ 4 credits
Prerequisite: Digital Literacy. Introduction to operating system components using Windows. This course provides theory and hands-on experience using and configuring Windows. Covered topics include: user interfaces, accounts, processes and scheduling memory, file systems and file permissions, multimedia codecs, networking, and basic security.

CIS 195 Web Authoring 1 .................................. 3 credits
Prerequisite: Basic computer literacy and file management. This course provides students with little computer experience with the concepts and skills necessary to create static web pages using the newest version of Hyper Text Markup Language and Cascading Style Sheets. Through hands-on practice students will master the concepts, tools and skills needed to construct web pages and post pages on the internet. May be offered online.

CIS 225 Computer End-User Support .................... 4 credits
Prerequisite: CIS 125D, and CS 179, or instructor consent. Prepares students to support end-users in a variety of organizational settings. Topics: End-user support functions, techniques for developing/delivering training, help desk operations, troubleshooting/problem solving, and end-user interaction. Taught in a lab environment.

CIS 244 Systems Analysis .................................. 4 credits
Prerequisite: CIS 125D and CS133N or CS 161C+ or CS 133P or instructor consent. This course provides foundational principles in systems analysis and design using an object oriented approach. Topics include: requirements gathering, iterative development, documenting work-flows, domain modeling with Unified Modeling Language (UML), database, agile techniques and use cases. Current issues of communication and connectedness via end of chapter case studies will take you through many aspects of system analysis. Students will use graphical and/or drawing software for modeling diagrams.

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 276R Data Integration, Analytics and Reporting .... 4 credits
Prerequisite: CS275 This course covers database connectivity, data analytics, database design, and data mining and warehousing methodologies including star schemas and online analytical processing. It utilizes tools and hands-on activities to perform data integration, reporting, and data extraction and migration.

CIS 287 Microcomputer Hardware ....................... 1-4 credits
Current technology of specific PC hardware components. Installation and troubleshooting of these components include memory, video, sound, and peripheral devices. This course introduces the physical connection within a network, including cabling and installation of Network Interchange Hardware. Hardware troubleshooting techniques emphasized.

CIS 120 Concepts of Computing: Information Processing ... 4 credits
This course provides a wide range of topics in the Computer Information Technology field: including the basics of computer hardware and software, operating systems, word processing, spreadsheets, database management, network and internet communications, security, and the impact of information technology on individuals and society. NOTE: For the Associate of Arts Oregon Transfer degree (AAOT), CS 120 is now counted as an open elective. Offered as hybrid and online.

CIS 133JS Beg. Programming: JavaScript ................ 4 credits
Prerequisite: MTH 060 or higher and CIS 195 Web Authoring I
CS 133N Intermediate Mobile Application Development: Android
- Prerequisite: CS 233N or CS 162J or CS 162C+. This course introduces students to the application of object oriented programming to mobile application development and the Android System Development Kit. Cross-platform mobile app development will be done using the Mono framework and the MonoDevelop IDE. May be offered online.

CS 240W Advanced Unix/Linux: Server Management
- Prerequisite: CIS 140W or CS 179 or instructor consent. Covers the installation, configuration, troubleshooting, and network server configuration for devices running Unix/Linux. Topics include: DHCP, DNS, NFS, Samba, Apache, database, and security. The course has a hands-on focus.

CS 240U Advanced Unix/Linux: Server Management
- Prerequisite: CS 240W. This course covers advanced Unix/Linux server operating system and networking concepts. Topics covered include: installation, configuration, virtualization, Active Directory, scripts, DNS, file systems, group policy, networking, web servers, and DHCP. May be offered online.

CS 246 System Design
- Prerequisite: CS 260 or CS 135G or CS 295N (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, testing, 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.

CS 256A Advanced Unix/Linux: Server Management
- Prerequisite: CS 240W. This course covers advanced Unix/Linux server operating system and networking concepts. Topics covered include: installation, configuration, virtualization, Active Directory, scripts, DNS, file systems, group policy, networking, web servers, and DHCP. May be offered online.

CS 275 Database Systems and Modeling
- Prerequisite: CS 133N or CS 161C+ or CS 133P and CIS 125D or CS 295N (formerly CS 295A). This course introduces students to database design and modeling concepts and the use of advanced database systems, including linked-lists and tree structures using pointers, and advanced structure programming methods through a variety of programming projects.

CS 276 Database SQL Programming
- 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
- Prerequisite: CS 179. Provides students with an in-depth understanding of computer architecture, the study of algorithms, software design and development, data representation and organization, ethics and the history of computing and its influences on society. The student is exposed to both low-level and high-level programming languages. May be offered online.

CS 280 Co-op Ed: Computer Information Technology Seminar
- Prerequisite: CIS 100. Students will increase their understanding of industry expectations as well as 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, their professional careers.
computers

of key networking concepts and tools enabling them to be successful in the more advanced networking courses and as networking professionals. Example topics: Network design/mapping, TCP/IP protocols, IP addressing, port numbers, routing protocols, and protocol analysis software.

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 280DG 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 280HI 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 280IS Co-op Ed: Computer Information Systems ........................... 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of computer information systems. 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: Computer 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 284 Network Security Fundamentals .................................................. 4 credits
Pre-requisite: CS 179 and MTH 082 or higher or instructor consent.
This course covers fundamental computer and network security concepts. It emphasizes securing the operating system, applications, media, network devices, web pages, and other 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. May be offered online.

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 the practical, hands-on experience resolving and 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 286 Firewalls and VPNs ................................................................. 4 credits
Prerequisite: CS 284 and CS 289, or instructor consent.
This course gives the students a real world understanding of how firewalls and VPNs can be used to enhance the protection of internal networks. It gives hands-on experience installing, configuring and managing firewalls and VPNs. Commercial firewalls, VPNs, security configuration guidance tools, and tools to monitor the effectiveness of the solutions will be used. You will explore proven strategies for defending your networks against unauthorized access, denial-of-service, the weaknesses of firewall architectures, security processes, address translation, content filtering, spoofing, and other advanced issues. This course has a hands-on focus.

CS 288 Network Monitoring and Management ...................................... 4 credits
Prerequisite: CS 240U, CS240W and CS 289 or instructor consent.
Covers network monitoring and management for network administrators. Topics: Analyzing network traffic, monitoring servers and internetworking devices, troubleshooting network problems, and tools/skills for maintaining acceptable network performance. Functions as a capstone course for the network degree.

CS 289 Cisco Router and Switch Administration .................................. 4 credits
Prerequisite: CS 279 or instructor consent. Covers configuration of Cisco routers and switches. Deals with modern networking processes and protocols used by internetworking devices with particular emphasis on routers. Widely used networking technologies are also covered. Course has a hands-on focus.

CS 295N Web Development 1: ASP.NET .................................................. 4 credits
Prerequisite: CS 133JS and CS 234N (may be taken same term as CS 295N), or instructor consent. This is the second in a sequence of 2 courses that teaches student 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.

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 sites. May be offered online.

CS 296N Web Development 2: ASP.NET .................................................. 4 credits
Prerequisite: CS295N or instructor consent. This is the second in a sequence of 2 courses that teaches student who have a working knowledge of C# and Visual Studio to develop web based applications in the .NET environment. Note: CS 296N was formerly numbered CS 296A. 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 296P Web Development 2: PHP ......................................................... 4 credits
Prerequisite: CS 295P or instructor consent. This is the second course in the (server-side) PHP 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.

CS 297 Programming Capstone .............................................................. 5 credits
Prerequisite: CS 246 or instructor consent. This is the final course for both the Computer Programming and Computer Simulation and Game Development programs. This course ties together the topics covered in the first and second year courses. It emphasizes practical application and problem solving and is project oriented. Students will work in teams to create a working, non-trivial software application using current technologies and methodologies. Note: CS 297 was formerly numbered CS 297P. A student who has taken this class under a previous number may not take it again under this new number and receive duplicate credit.

HI 209 Networking, Interoperability and Health Information Exchange ................. 3 credits
Prerequisite: CS179, HI 107I, HI 11I and HI 208 or instructor consent.
In-depth analysis of data mobility including the hardware infrastructure (wires, wireless, and devices supporting them), the ISO stack, standards, Internet protocols, federations and grids, the NHIN and other nationwide approaches. May be offered online.

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Computers: Keyboarding

For information, contact the Business and Computer Information Technology Division, Blvdg. 19/Rm. 137, 541.463.5221.

BT 015 Keyboard Skillbuilding .............................................................. 3 credits
For information, contact the Business and Computer Information Technology Division, Blvdg. 19/Rm. 137, 541.463.5221.

Computers: Software Application

For information, contact the Business and Computer Information Technology Division, Blvdg. 19/Rm. 137, 541.463.5221.

BT 120 MS WORD for Business .............................................................. 4 credits
Prerequisite: Recommend familiarity with Windows operating systems and the ability to accurately type 30 words per minute. As an introduction to word processing, students apply MS WORD to create business documents. Focus is on reviewing Windows; editing and formatting documents; applying document refinements to enhance written communication; working efficiently using mail merge and macros; working with shared documents; and managing documents. May be offered online.
**BT 122 MS POWERPOINT for Business**................................. 3 credits
Prerequisite: Recommend familiarity with Windows operating system and the ability to accurately type 30 words per minute. Visit lanec.edu/business 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.

**BT 123 MS EXCEL for Business**........................................ 4 credits
Prerequisite: CS120 or BT120 or CIS101 and MTH 085 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 lanec.edu/business 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.

**BT 150 Business Web Pages with Wordpress**...................... 3 credits
Introduction to web concepts, HTML5, CSS3, and incorporating graphics into a business web page with an emphasis on creating and maintaining a business web page maintenance, including business web concepts, use of HTML5, CSS3, and incorporating business graphics into a business web page. Focus will be on project completion of a major web site update for a local business, not-for-profit agency, or a web project for the school. May be offered online.

**BT 163 QuickBooks** ....................................................... 4 credits
Prerequisites: BT123 and BT165. Introduces students to the use of QuickBooks for small business 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. May be offered online.

**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 lanec.edu/business for Business Department keyboarding guidelines or contact the instructor for details. A review and extension of MS WORD for Business; application of advanced formatting features in the development of professional business documents. Using workgroup collaboration and file sharing features and formatting lengthy business documents. May be offered online.

**BT 223 MS EXCEL for Business-Expert**.............................. 4 credits
Prerequisites: BT 123 and MTH 085 or higher, or instructor consent. Recommend the ability to type 30 words per minute. Visit lanec.edu/business for Business Department keyboarding guidelines or contact the instructor for details. Advanced Excel functions for business problem solving. Focus on creation of effective business spreadsheets to assist managers in decision making. May be offered online.

**BT 228 Integrated Office Applications**.............................. 4 credits
Prerequisite: BT 123, BT 144, BT 220. Recommend the ability to accurately type at least 40 words per minute. Visit lanec.edu/business for Business Department keyboarding guidelines or contact the instructor for details. Advanced software applications course to review, apply, and expand skills. Students need a strong background in MS Word and MS Excel and familiarity with PowerPoint and Access. New skills include practice with other applications and current Web technologies. Emphasis on problem solving and creativity. Continued development of keyboarding skills. May be offered online.

### Construction

For information, contact the Advanced Technology Division, Bldg. 15/Rm. 201, 541.463.3380.

**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 development of 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 building structures. 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 118.

**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
Various 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
Overview of sustainable construction practices currently applied in the industry. Following the “Leadership in Energy and Environmental Design” (LEED) standards, students will explore site and land use, water, materials, energy, atmosphere, and indoor environmental quality.

**CST 211 Blueprint Reading 2**........................................ 3 credits
Prerequisite: CST 110. Advanced 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 experiences in residential construction businesses and organizations. Building 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.

### Cooperative Education/Internships

For information, contact the Cooperative Education Division, Bldg. 19/Rm. 265, 541.463.5203.

- AB 280 Co-op Ed: Auto Body and Fender .......................... See page 188
- AM 280 Co-op Ed: Automotive ....................................... See page 189
- ART 280A Co-op Ed: Art and Applied Design ...................... See page 188
- ART 280GD Co-op Ed: Graphic Design ............................. See page 217
- AV 280 Co-op Ed: Aviation Maintenance .......................... See page 189
- BA 280 Co-op Ed: Business Management ......................... See page 192
- BA 280AA Co-op Ed: Administrative Office ....................... See page 180
- BA 280AC Co-op Ed: Accounting .................................... See page 180
- BA 280CS Co-op Ed: Customer Service ............................. See page 192
- BI 280 Co-op Ed: Biology ............................................. See page 191
- BT 206 Co-op Ed: Business Seminar ................................ See page 192
- CA 280 Co-op Ed: Culinary Arts, Second Year ..................... See page 199
- CH 280 Co-op Ed: Physics-Chemistry ............................... See page 193
- COOP 280 Co-op Ed: Criminal Justice .............................. See page 199
- COOP 206 Co-op Ed: Internship Seminar ......................... 1-2 credits
  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. Coursework is delivered online.
- COOP 280 Co-op Ed ...................................................... 1-2 credits
  See department for topics.
Cooperative Education/Internships - Criminal Justice

COOP 280SL Co-op Ed: Service Learning ......................... 1-12 credits
Gain work experience with community partners in addressing real community needs. Through this internship students practice critical thinking, citizenship and civic responsibility, explore career options, and network with professionals while earning college credit. Students set learning objectives and engage in faculty-guided reflection activities.

COOP 280SV Service Learning: Food for All ..................... 1-3 credits
Work with community partners addressing hunger and the need for food by people in Lane County. Through this internship students practice critical thinking, citizenship and civic responsibility, explore career options, and network with professionals while earning college credit. Students set learning objectives. (This course may be part of the "What the World Eats" learning community.)

COOP 280_H Co-op Ed: Service Learning-Honors .............. 3-12 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 lanec.edu/honors for information. Prerequisite: Instructor approval. Gain experience with community partners in addressing real community needs. Practice critical thinking, citizenship and civic responsibility, explore career options, and network with professionals while earning college credit. Students set learning objectives. (This course may be part of the "What the World Eats" learning community.)

CS 206 Co-op Ed: Computer Information
Technology Seminar ............................................... See page 195
CS 280CN Co-op Ed: Computer Network
Operations ............................................................. See page 196
CS 280GD Co-op Ed: Computer Simulation &
Game Development ............................................. See page 196
CS 280H Coop Ed: Health Informatics .......................... See page 196
CS 280IS Co-op Ed: Computer Information Systems .......... See page 196
CS 280PR Co-op Ed: Computer Programming ................. See page 196
CST 280 Co-op Ed: Construction ................................. See page 197
DA 206 Co-op Ed: Dental Assisting Seminar .................. See page 202
DA 280 Co-op Ed: Dental Assisting ............................ See page 202
DH 280 Co-op Ed: Dental Hygiene ................................ See page 203
DS 280 Co-op Ed: Diesel ............................................ See page 204
ED 230 Co-op Ed: Education ....................................... See page 207
ED 280EC Co-op Ed: Early Childhood Education .............. See page 205, 207
EMT 280P1 Co-op Ed: EMT Internship Part 1 ................... See page 209
EMT 280P2 Co-op Ed: EMT Internship Part 2 ................... See page 209
ENGR 280 Co-op Ed: Engineering ................................ See page 211
ENGR 280 Co-op Ed: Drafting ..................................... See page 205
ENGR 280E Co-op Ed: Electronic Technology .................. See page 207
ENGR 280M Co-op Ed: Manufacturing Technology ............ See page 230
ENGR 280W Co-op Ed: Welding .................................. See page 213
ES 280 Co-op Ed: Ethnic Studies ................................ See page 212
FL 280W Co-op Ed: International Work Experience ............ See page 224
FN 280 Co-op Ed: Dietary Manager .............................. See page 243
FT 280 Co-op Ed: Flight Tech ...................................... See page 215
G 280 Co-op Ed: Geology ......................................... See page 206
G 280ES Co-op Ed: Environmental Science .................... See page 206
GIS 280 Co-op Ed: Geographic Information Science .......... See page 216
HE 280 Co-op Ed: Health Occupations ........................ See page 217
HE 280PH Co-op Ed: Public Health ............................. See page 245
HIM 206 Co-op Ed: Employment in Healthcare: Him Seminar See page 218
HIM 280 Co-op Ed: Health Information Management ........ See page 218
HON 280_H Co-op Ed: International Work Experience-Honors See page 220
HRTM 280 Co-op Ed: Hospitality Management .................. See page 222
IDS 280S Co-op Ed: Sustainability Coordinator ................. See page 255
J 280D Co-op Ed: Journalism ...................................... See page 224
MA 280 Co-op Ed: Medical Office Assistant Seminar ......... See page 237
MA 280 Co-op Ed: Medical Assistant ............................. See page 237
MDP 280 Co-op Ed: Multimedia .................................. See page 236
MTH 280 Co-op Ed: Mathematics ................................ See page 234
MUL 280 Co-op Ed: Web Design .................................. See page 236
MUS 280 Co-op Ed: Music ......................................... See page 239
NRG 206 Co-op Ed: Energy Management Seminar ............. See page 210
NRG 280 Co-op Ed: Energy Management ........................ See page 210
NRS 280 Co-op Ed: Nursing ....................................... See page 242
PE 280 Co-op Ed: Physical Education ........................... See page 213
PE 280AR Co-op Ed: Aerobics .................................... See page 213
PE 280AT Co-op Ed: Athletic Training ........................... See page 213
PE 280C Co-op Ed: Coaching ...................................... See page 213
PE 280M Co-op Ed: Fitness Management ........................ See page 213
PE 280R Co-op Ed: Recreation .................................... See page 213
PE 280RT Co-op Ed: Corrective Fitness .......................... See page 213
PE 280W Co-op Ed: Wellness ..................................... See page 213
PS 280 Co-op Ed: Political Science ............................... See page 250
PSY 280 Co-op Ed: Psychology .................................... See page 250
PTA 280A Co-op Ed: First Clinical Internship .................... See page 248
PTA 280B Co-op Ed: Second Clinical Internship ................ See page 248
PTA 280C Co-op Ed: Third Clinical Internship .................. See page 248
RT 280A Co-op Ed: Respiratory Care Clinical
Practice 1 .............................................................. See page 252
RT 280B Co-op Ed: Respiratory Care Clinical
Practice 2 .............................................................. See page 252
RT 280C Co-op Ed: Respiratory Care Clinical
Practice 3 .............................................................. See page 252
RT 280D Co-op Ed: Respiratory Care Clinical
Practice 4 .............................................................. See page 252
RT 280P Respiratory Care Critical Care Practicum ............... See page 252
RT 280R Co-op Ed: Respiratory Care .............................. See page 252
SLD 280 Co-op Ed: ASLCC ........................................ See page 253
SOC 280 Co-op Ed: Sociology ...................................... See page 252
TA 280 Co-op Ed: Performing Arts ............................... See page 254
WST 280 Co-op Ed: Watershed Science Technician ............ See page 255

Criminal Justice

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5477

CJA 100 Introduction to Criminal Justice ........................... 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 implementation 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 occupations, 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 ........................................ 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 existing as a 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
### Course Descriptions

#### Culinary Arts

For information, contact the Culinary Arts and Hospitality Management Department, Bldg. 18/Rm. 202, 541.463.3903.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 110</td>
<td>Culinary Adventuring: Local Guest Chef Series</td>
<td>2</td>
</tr>
<tr>
<td>CA 120</td>
<td>Culinary Adventuring: Seasonal Baking and Pastry</td>
<td>2</td>
</tr>
<tr>
<td>CA 121</td>
<td>Culinary Adventuring: The Composition of Cake</td>
<td>2</td>
</tr>
<tr>
<td>CA 122</td>
<td>Artisan Breads</td>
<td>2</td>
</tr>
<tr>
<td>CA 123</td>
<td>Culinary Adventuring: International Baking &amp; Pastry</td>
<td>2</td>
</tr>
<tr>
<td>CA 130</td>
<td>Culinary Adventuring: Oregon Wine Country</td>
<td>2</td>
</tr>
<tr>
<td>CA 159</td>
<td>Kitchen Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>CA 160</td>
<td>Introduction to Cooking Theories</td>
<td>3</td>
</tr>
<tr>
<td>CA 162</td>
<td>Introduction to Cooking Theories</td>
<td>7</td>
</tr>
<tr>
<td>CA 163</td>
<td>Introduction to Cooking Theories</td>
<td>7</td>
</tr>
<tr>
<td>CA 163A</td>
<td>Beginning Baking and Pastry</td>
<td>3</td>
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<tr>
<td>CA 163B</td>
<td>Intermediate Baking and Pastry</td>
<td>2</td>
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<tr>
<td>CA 163C</td>
<td>Advanced Baking and Pastry</td>
<td>2</td>
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<tr>
<td>CA 165</td>
<td>Culinary Adventuring: Professional Culinary Services</td>
<td>2</td>
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<tr>
<td>CA 166</td>
<td>Culinary Adventuring: Producers</td>
<td>2</td>
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<tr>
<td>CA 167</td>
<td>Culinary Adventuring: Professional Culinary Services</td>
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<td>CA 168</td>
<td>Culinary Adventuring: Professional Culinary Services</td>
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<tr>
<td>CA 169</td>
<td>Culinary Adventuring: Professional Culinary Services</td>
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</table>

#### Criminal Justice - Culinary Arts

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CJA 220</td>
<td>Introduction to Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJA 222</td>
<td>Criminal Law: Procedural Issues</td>
<td>3</td>
</tr>
<tr>
<td>CJA 232</td>
<td>Correctional Casework</td>
<td>3</td>
</tr>
<tr>
<td>CJA 243</td>
<td>Narcotics and Dangerous Drugs</td>
<td>2</td>
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<tr>
<td>CJA 280</td>
<td>Co-op Ed: Criminal Justice</td>
<td>3-12</td>
</tr>
<tr>
<td>CJA 122</td>
<td>Correctional Casework</td>
<td>3</td>
</tr>
<tr>
<td>CJA 159</td>
<td>Kitchen Fundamentals</td>
<td>2</td>
</tr>
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<td>CJA 160</td>
<td>Introduction to Criminal Law</td>
<td>2</td>
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<td>CJA 162</td>
<td>Introduction to Criminal Law</td>
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<tr>
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<td>CJA 166</td>
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<tr>
<td>CJA 169</td>
<td>Culinary Adventuring: Professional Culinary Services</td>
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</tbody>
</table>

**Notes:**
- Courses with a 3-12 credits range indicate variable credits depending on the student's and instructor's discretion.
- Courses requiring co- or prerequisites should be taken in sequence.
- Prerequisites must be completed before enrolling in the designated course.
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 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.

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.

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, 541.463.5209.
PE - Contact the Health and PE Division, Bldg. 5/Rm. 205, 541.463.5545.

D 152 Dance Basics .................................................. 2 credits
This course introduces basic dance techniques and provides a strong foundation where students can proceed in their training in ballet, modern, or jazz. The course presents alignment principles, weight shifts, level changes, and elements of movement such as: use of rhythm, shape and dynamics. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 153 Pilates Workout................................................ 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 unifying 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. Offered winter term only.

D 160 Dance Composition .......................................... 3 credits
Gyrokinesis (Gyro) exercises work the entire body through use of fluid spinal movement. Joints and muscles gently work through rhythmic spiraling and undulating movements, which invigorate the body. Gyro uses smooth, connected, fluid postures to unite movement and 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 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 172 Dancing the Fluid Body .................................... 2 credits
This course explores the concepts of Continent Movement through specific breath and sound techniques, wave motion, and spiral movement. Given realistic progressive development, students will advance to Mod- ern 2 after one term. 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 course introduces to African dance. Students learn contemporary and traditional dances 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 introductory level course 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 advance to Modern 2 after one term. 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 the basics of rhythm, including tempo, beat, meter, 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 177 Modern Dance 1 ............................................. 2 credits
For dancers with little or no previous dance experience, this beginning level class 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 for a full year. 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 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. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 179 Modern Dance 3 ............................................. 2 credits
This intermediate-advanced level class accommodates the dance major and non-major student. Modern dance technique is presented with more complex movement phrases that incorporate three-dimensional use of the spine and torso, joint articulation and mobility, core strength, expressivity and spatial awareness. Students at this level are encouraged to explore their artistry and personal expressivity. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 182 Meditation in Motion ....................................... 2 credits
This course explores awareness of movement, breath, and alignment from a variety of practices and modalities. Students develop ease, flexibility, and mental clarity while calming the nervous system and de-stressing. Contents and expected learning proficiencies of this course may vary from term-to-term. May be repeated up to 12 credits.

D 183 Hip Hop 1 ...................................................... 2 credits
This introductory course explores Hip-Hop dance vocabulary and style. Students learn 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 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 12 total credits.

D 187 Ballet 3 ............................................................ 2 credits
This intermediate-advanced level class accommodates the dance major and non-major student. Focus is on technical execution, musicality, and line. Class work builds on the student's ballet vocabulary through more advanced center floor phrases, adagios, petit allegros and grande allegros. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

D 188 Jazz Dance 1 .................................................... 2 credits
This beginning-intermediate 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 dance vocabulary and style. With emphasis on athleticism in dance, isolations, intricate rhythm patterns, and complex 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 195 Pointe ............................................................. 1 credits
Prerequisite: Ballet 3. Pointe focuses on building strength, coordination, and stability en pointe. Work at the barre includes leve, releve, and bouse. Center work includes some pointe work, and variations where students work in soft ballet shoes. This Pointe class focuses on the ability to articulate quarter, half, three-quarter and full pointe; cleanly execute 5th position, and consistent control of turn out. Students attending this beginning through intermediate course must be at an intermediate level in Ballet, and be taking a regular Ballet class concurrently with Pointe. May be repeated for up to 12 credits.

D 196 Balinese Dance ................................................ 2 credits
This course explores Balinese Dance in relation to art, spirituality, and dance life. Students learn traditional dances, their cultural 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 to World dance, students explore dance as an art form in its expressive, communicative, and aesthetic aspects. A required course for dance majors, 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 Anatomy of the Moving Body ............................ 4 credits
Introduction to body systems, muscular, skeletal, organ, fluid, nervous, fascial and endocrine system. Re-patterning movement is introduced through various somatic disciplines. Value is placed on embodiment of anatomy through movement, touch and imagination to explore 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 once a year.

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. Offered fall term only.

D 260 Group Choreography ........................................ 3 credits
Prerequisites: D 190, D 195, and D 196. Group Choreography tools and techniques are learned and applied. Emphasis is placed on dynamics, spatial relationship, clarity and form. Students learn to articulate personal responses to choreographic projects while exploring individual creativity. 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 spring 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 students in our annual dance concert performances. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits.

PE 187B Ballroom Dancing ........................................ 1 credits
Introductory course in basic ballroom dance forms Waltz, Foxtrot, Swing, and Rumba. Students learn basic steps and proper technique, posture, balance and coordination. Students will learn how social dance contributes to an active lifestyle, improves confidence and well-being and reduces stress.

PE 187S Swing Dancing ........................................... 1 credits
Introductory course in single and triple-time East Coast swing. Students will learn basic steps and proper technique, posture, balance and coordination. Students will learn how social dance contributes to an active lifestyle, improves confidence and well-being and reduces stress.

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
Must be enrolled in the Dental Assisting Program. 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 and comparison of other states, roles of the dental health team, and an introduction to the dental office environment are also included in this course. Taught online.

DA 107 Dental Health Education 1 .............................. 1 credits
Must be 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. May be taught online.

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 and case presentation tools. Includes alginate impressions, patient motivation, coronal polishing, fluoride application, nutritional counseling, the recognition of normal and abnormal oral conditions and community service programs.

DA 115 Dental Anatomy ............................................ 3 credits
Must be enrolled in the Dental Assisting Program. This course covers the study of head & neck anatomy with emphasis on oral structures, individual teeth and tooth surfaces using the universal numbering system. This is a hybrid course, with a portion of the class taught online.

DA 192 Dental Materials ............................................ 3 credits
Must be 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 pertinent laboratory procedures from DA 192 related to the field of dentistry, such as amalgam and composite, die construction, retainers, bleaching trays, denture relines, temporary crowns & restorations, sealants and custom trays.
### Dental Assisting - Dental Hygiene

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>DA 194</td>
<td>Dental Office Procedures</td>
<td>3</td>
<td>Must be enrolled in the Dental Assisting Program. Principles of appointment planning, telephone techniques, case presentation, communications &amp; marketing, and management of client accounts using Eaglesoft dental software. Teaching is done both online and in a computer lab to support computerized instruction.</td>
</tr>
<tr>
<td>DA 195</td>
<td>Chairside Procedures 1</td>
<td>6</td>
<td>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, charting, &amp; operative dentistry. Microbiology, disease transmission, asepsis, infection control and legalities of regulatory agencies are included.</td>
</tr>
<tr>
<td>DA 196</td>
<td>Chairside Procedures 2</td>
<td>7</td>
<td>Must be enrolled in the Dental Assisting Program. Course covers signs &amp; symptoms of medical emergencies that may occur in the dental office. Specialties of dentistry, principle procedures, instrument set-ups, and clinical experience in 4-handed dentistry are also included.</td>
</tr>
<tr>
<td>DA 206</td>
<td>Co-op Ed: Dental Assisting Seminar</td>
<td>1</td>
<td>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 professional career in dental assisting.</td>
</tr>
<tr>
<td>DA 210</td>
<td>Dental Radiology 1</td>
<td>4</td>
<td>Must be enrolled in the Dental Assisting Program. Continuation of DA 210. Provides basis for occlusal film projections, digital radiology, 3D imaging and extra-oral radiographs. Students apply all skills learned in Fall term, and progress to exposure of dental images on clinical patients.</td>
</tr>
<tr>
<td>DA 211</td>
<td>Dental Radiology 2</td>
<td>3</td>
<td>Must be enrolled in the Dental Assisting Program. Continuation of DA 210. Provides basis for occlusal film projections, digital radiology, 3D imaging and extra-oral radiographs. Students apply all skills learned in Fall term, and progress to exposure of dental images on clinical patients.</td>
</tr>
<tr>
<td>DA 280</td>
<td>Co-op Ed: Dental Assisting</td>
<td>6-12</td>
<td>Must be enrolled in the Dental Assisting Program. Course must be co-enrolled with DA 206. Course provides dental assisting work experience in community businesses. Includes opportunity to integrate theory and practice. Students can develop skills &amp; explore career options.</td>
</tr>
<tr>
<td>EL 115F</td>
<td>Effective Learning: Health Science Majors</td>
<td>3</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 107</td>
<td>Dental Infection Control and Safety</td>
<td>1</td>
<td>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 hands-on sessions. May be offered online.</td>
</tr>
<tr>
<td>DH 111</td>
<td>Dental Anatomy and Histology</td>
<td>2</td>
<td>Prerequisite: Admission to the DH Program on consent of instructor. The study of dental histology and morphology of the teeth and surrounding soft tissues. May be offered online.</td>
</tr>
<tr>
<td>DH 118A</td>
<td>Clinical Dental Hygiene 1</td>
<td>4</td>
<td>Prerequisites: Enrolled 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.</td>
</tr>
<tr>
<td>DH 118B</td>
<td>Clinical Dental Hygiene 1 Lab</td>
<td>2</td>
<td>Clinical lab required for DH 118A.</td>
</tr>
<tr>
<td>DH 119A</td>
<td>Clinical Dental Hygiene 2</td>
<td>3</td>
<td>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. Client care begins with the child, adolescent and adult patient with limited periodontal needs. May be offered online.</td>
</tr>
<tr>
<td>DH 119B</td>
<td>Clinical Dental Hygiene 2 Lab</td>
<td>4</td>
<td>Clinical lab required for DH 119A.</td>
</tr>
<tr>
<td>DH 120A</td>
<td>Clinical Dental Hygiene 3 Lecture/seminar</td>
<td>3</td>
<td>Prerequisites: Admission to DH Program or instructor consent. Co-requisites: DH120A and DH120B 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.</td>
</tr>
<tr>
<td>DH 120B</td>
<td>Clinical Dental Hygiene 3 Clinic Lab</td>
<td>4</td>
<td>Clinical lab required for DH 120A.</td>
</tr>
<tr>
<td>DH 132</td>
<td>Dental Materials for the Dental Hygienist</td>
<td>2</td>
<td>Prerequisites: Admission to DH Program or instructor consent. Composition, properties and manipulation of dental materials. Laboratory and clinical experience with dental materials. May be offered online.</td>
</tr>
<tr>
<td>DH 139</td>
<td>Special Needs Patient and Dental Emergencies</td>
<td>2</td>
<td>Prerequisite: Enrolled in DH 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.</td>
</tr>
<tr>
<td>DH 220A</td>
<td>Clinical Dental Hygiene 4 Lecture/seminar</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>DH 220B</td>
<td>Clinical Dental Hygiene 4 Clinic Lab</td>
<td>5</td>
<td>Clinical lab required for DH 220A.</td>
</tr>
<tr>
<td>DH 221A</td>
<td>Clinical Dental Hygiene 5</td>
<td>2</td>
<td>Prerequisites: Admission in DH Program or instructor permission Co-requisites: DH221A and DH221B are taken together and require simultaneous registration. Lecture, instructional lab and clinical course focusing on 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.</td>
</tr>
<tr>
<td>DH 221B</td>
<td>Clinical Dental Hygiene 5 Lab</td>
<td>6</td>
<td>Clinical Lab required for DH 221A.</td>
</tr>
<tr>
<td>DH 222A</td>
<td>Clinical Dental Hygiene 6</td>
<td>2</td>
<td>Prerequisites: Admission in DH Program or instructor permission Co-requisites: DH222A and DH222B are taken together and require simultaneous registration. Continuation of the practice of the Dental Hygiene process of care with focus on the integration of comprehensive dental hygiene care into the general dentistry practice setting. Competency testing will prepare students for WREB board examinations and Licensure. May be offered online.</td>
</tr>
<tr>
<td>DH 222B</td>
<td>Clinical Dental Hygiene 6 Lab</td>
<td>5</td>
<td>Clinical Lab required for DH 222A.</td>
</tr>
</tbody>
</table>
| DH 228     | Oral Biology 1                                    | 4       | 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. Concepts in general, systemic, and oral pathology. Emphasis on entities commonly encountered, clinical signs and symptoms, and concepts of differential diagnosis. May be offered online.

DH 233 Anesthesia/Analgesia for Dental Hygiene Therapy........ 3 credits
Prerequisites: Admin. in DH Program or instructor Permission. Current science, theories and implementation of local anesthesia and nitrous oxide/oxygen conscious sedation. Review of anatomy, physiology, pharmacology, and emergency procedures associated with local anesthesia, nitrous oxide and oxygen conscious sedation. Foundational concepts of patient physiology and development in the administration of infiltration and block anesthesia in dental hygiene procedures. Laboratory and clinical experience in administration of local anesthesia and N2O/O2. May be offered online.

DH 234 Trends and Issues in Dental Hygiene........................ 2 credits
Prerequisite: Admission to the DH Program or consent of instructor. Exploration of current trends and issues in the profession, ethics and jurisprudence, practice management and research employing opportunities for the dental hygienist. May be offered online.

DH 235 Community Dental Health ............................... 3 credits
Prerequisites: Admission to DH Program or Instructor permission. An introduction to dental public health practices. Emphasis on use of an evidence based philosophy for incorporating scientific literature into community dental health practices. Instruction in basic research, statistical concepts and electronic data bases. Program planning is emphasized. Field work in public health clinics, with community groups for dental presentations and in public dental programs. May be offered online.

DH 236 Community Dental Health ............................... 1 credits
Prerequisites: Acceptance into Dental Hygiene Program. Preparation of a community dental health portfolio demonstrating implementation of dental health program plans and participation in field work assignments. Portfolio projects focus on the identification of community groups and development of sound approaches to dental public health needs. The student participates in field work assignments and student initiated community health promotion projects. May be offered online.

DH 243A Oral Roentgenology 1 .................................. 2 credits
Prerequisite: Admission to the DH Program or consent of instructor. Continuation of study of restorative techniques with emphasis on posterior tooth anatomy, placement of amalgam restorations, rubber dam isolation, matrix and wedge placement. Includes etiology of the decay process, cavity classification, cavity preparation, properties of amalgam and maintenance of proper occlusal relationships with restorative treatment. May be offered online.

DH 243AI Oral Roentgenology 1 .................................. 2 credits
Co-requisite: DH 244A and DH 244B are taken together and require simultaneous registration. Historical background, terminology; clinical patients, restorative treatment planning and case presentation. May be offered online with onsite lab.

DH 243B Oral Roentgenology 1 Lab ................................ 1 credits
Clinical Lab. Lab required for DH 243A.

DH 243BI Oral Roentgenology 1 Lab ................................ 1 credits
Clinical Lab. Lab required for DH 243A.

DH 244A Oral Roentgenology 2 .................................. 1 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 clinical radiographs. May be offered online. Lab required for DH 244A.

DH 244B Oral Roentgenology 2 Lab ................................ 1 credits
Clinical Lab required for DH 244A.
Diesel and Heavy Equipment - Drafting

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: 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, conductions, 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
This course covers technical information and shop projects necessary for the practical application and understanding of theories and principles used in the 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 transmission; and on and off highway automatic transmissions; drive lines; front- and rear-drive carrier units; heavy duty tires, wheels, and rims; and wheel hubs, dished 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, diagnosis, testing, failure analysis, and repair of diesel auxiliary systems. Technical information and shop projects to apply and understand theories and principles include: alternative type fuel systems; diesel fuel systems including filters, pumps, injectors, and exhaust brakes and retarders in on and off highway heavy duty equipment.

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, diagnosis, testing, failure analysis, and repair of diesel electrical systems. This includes: Electrical fundamentals as they pertain to diesel electrical systems; operation and testing of batteries and battery banks; operation and testing of alternators and charging systems; operation and testing of starters and starting systems; heavy duty electrical circuits and schematics; maintenance and repair of OEM and aftermarket electrical connectors and conductors; safety; operation and testing of electronic control systems and components; operation and testing of air conditioning systems as they are used on highway trucks, off highway trucks, agriculture equipment and construction equipment.

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, diagnosis, testing, and repair of diesel engines and engine overhaul. This includes: development of the diesel engine; diesel engine operating principles; common rail 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 gear train; lubrication systems and lube oil; cooling systems and coolant; air intake systems; exhaust systems and emissions; hand tools used in the disassembly, reassembly, and overhead adjustment; and diagnosis, testing, and repair of diesel engines as they apply to “on” and “off” the highway diesel equipment.

DS 260 Lift Truck/Material Handling Equipment ............. 1-12 credits
Prerequisite: Instructor Consent.
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/upright, 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 learned 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 college credit toward a degree.

DRAFTING

DS 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.

DS 137 Architectural Plans .............................................................. 4 credits
Prerequisite: DRF 160 Fundamentals of building materials, construction techniques, construction documents, and processes used in residential structures.

DS 160 Computer-Aided Drafting and Design ..................... 4 credits
In this course students use AutoCAD or equivalent computer-aided drafting software to create drawings. Students will learn to draw, modify, apply text and dimensioning, create and use hatch patterns, set up drawing layouts, plot, create and use blocks and attributes, and insert external references.

DS 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.

DS 205 Drafting: Structures ............................................................ 4 credits
Prerequisite: DRF 167, MTH 075 and MTH 085 or instructor consent.
Graphical methods to investigate forces applied to rigid bodies at rest, including beams and trusses. The course covers types of structures, how 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.

DS 206 Co-op Ed: Drafting Seminar ............................................. 2 credits
Prerequisite: DRF 168. Students will increase their understanding of industry expectations as well as 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.

DS 207 Drafting: Strength of Materials ............................... 4 credits
Prerequisite: MTH 075, MTH 085, 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.

DS 210 Commercial Buildings ....................................................... 4 credits
Prerequisite: DRF 137 and DRF 160. Fundamentals of building materials, construction techniques, construction documents, and processes used in commercial structures.

DS 211 Sustainable Building Systems ........................................ 4 credits
Prerequisite: WR 121. Fundamental principles of mechanical systems used in high-performance or green buildings, including energy, water, lighting, heating, ventilation, and air conditioning.

DS 220 Building Information Modeling ................................. 4 credits
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.

DS 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.
ECE 170 Infants and Toddlers Development
The course is designed to examine the growth and development of infants and toddlers. Practical areas of care will include: safety, health, nutrition, sleep, and toilet learning. Lectures, in-class discussions, and visual media offer a varied presentation.

ECE 210 Applying Early Childhood Curriculum
Prerequisites: ECE 160. Study of best practices and a Reggio-inspired approach to Early Childhood Education. There is an emphasis on the design of the environment as the third teacher; the outdoor environment and a study of science and math methods and materials is included. This is an advanced course in Early Childhood Curriculum focusing on group care of young children. The prerequisite course is Exploring Early Childhood Curriculum: ECE 160. If this course is taken out of sequence, please see the instructor before continuing with the course.

ECE 230 Family, School, Community Relations
Designed to help the student understand and develop methods and procedures for fostering effective family, school and community relations. Topics include: 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. May be offered online.

ECE 240 Practicum 2-LCC Lab School
Prerequisite: ECE 110 and ECE 140 Theory & Supervised Teaching I. Designed to provide the student with actual experience in the supervision, guidance and care of young children based on the standards of NAEC for Early Childhood Professional Preparation. This is work experience in a lab school child care. Students learn to demonstrate consistent appropriate guidance and plan and carry out developmentally appropriate curriculum.

ECE 250 Infant and Toddler Environments
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. Students will evaluate and develop appropriate materials and methods to increase children's awareness and appreciation of diversity.

ECE 260 Administration of Child Care Programs
Prerequisite: ECE 140. An overview of administrative and 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. May be offered online.

ED 280EC Co-op Ed: Early Childhood Education
This course offers ECE majors (seeking a AAS degree) 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.

HDFS 226 Child Development
Study of children's physical, social-emotional, and intellectual development. Topics include: prenatal development and influences, a survey of 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. May be offered online.

HDFS 227 Children Under Stress
Designed to acquaint the student with the social, economic, and cultural factors which contribute to a child's developmental experiences and to help them understand how his or her growth and development will be placed on attachment theory, the development of self-esteem and trauma informed care.

HDFS 228 Young Children with Special Needs
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.

**Earth and Environmental Science**

For information, contact the Science Division, Bldg. 16/Rm. 156, 541.463.5446.

ENSC 181 Terrestrial Environment

- 4 credits
- Interactions among humans and natural land-based systems and their environmental consequences. Topics and labs include terrestrial ecology, biodiversity, biomes, forests, agriculture, rangelands, soils, groundwater, geologic mineral and energy resources, mining, waste management, recycling, environmental justice, ecological economics, conservation, and sustainable production. Take ENSC 181-183 in any order.

ENSC 182 Atmospheric Environment and Climate Change

- 4 credits
- Causes, consequences, geologic history and science of climate change and atmosphere. Topics and labs include weather, Sun-Earth cycles, air pollution, ozone layer, greenhouse effect, ocean/atmosphere/ice systems, climate models and data, predictions, feedbacks, tipping points, carbon sequestration, energy options. Advise G102 or GEOG141 first.

ENSC 183 Aquatic Environment

- 4 credits
- Students learn about freshwater and marine systems including their biology, geology, chemistry, circulation, climate and interactions with humans. Topics and labs include aquatic biodiversity, streams, water pollution, ocean currents, fisheries, sustaining aquatic systems and water resources. Take ENSC 181-183 in any order.

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, deserts, climate, problem solving, topographic maps and remote sensing of landforms. Take either G101 or G102 first.

G 103 Evolving Earth

- 4 credits
- Surveys geologic history of Earth and life. Topics include sedimentary environments, strata, plant and animal evolution, and how plate tectonic actions built continents. Labs include problem solving, fossils, relative ages of rock layers, geologic maps and cross-sections. Advise G101 or G102 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 landscape formation in national parks and monuments, including western parks, among others. Topics: volcanoes, 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 global events.

G 201 Earth Materials and Plate Tectonics

- 4 credits
- Global plate tectonic influences on Earth's internal structure, movement, deformation, magnetism, earthquakes, volcanism, minerals and rocks. Labs explore rocks and minerals, geologic maps, structures and resources.

G 202 Earth's Surface Systems

- 4 credits
- Surface geologic processes. Includes landforms and hazardous geological systems, rocks and minerals, geologic and topographic maps, remote sensing, erosion, deposition, weathering, soils, mass wasting, streams, groundwater, coasts, glaciers, deserts, climate and plate tectonics. Take this course or G 201 before G 203.

G 203 Evolution of the Earth

- 4 credits
-Prerequisite: Grade of C- or better in G 101 or G 201 or G 202. Geology 203 explores how plate motions, climate change and other factors influence the distribution and evolution of continents and organisms through geologic time. Labs examine fossils, age relationship, stratigraphy and analysis of complex regions using geologic maps and cross-sections.

G 280ES 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 Science

- 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, minerals, rocks, maps, and space imagery. Take GS 104, 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. Offered through distance learning.

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. Offered through distance learning.

WST 230 Watersheds and Hydrology

- 4 credits
- Prerequisite: ENVS 181 or ENVS 183 with grade of 'C-' or better. 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.

ECON 200 Principles of Economics: Introduction to Economics

- 3 credits
- MTH 111 College Algebra and sophomore standing recommended. First term of a three-term sequence in principles of economics. Introduction to basic economic concepts of scarcity, choice production possibilities, and market operations. Also includes economic measurements, and the circular flow of income, and the role of government. May be offered through Distance Learning.

ECON 201 Principles of Economics: Introduction to Microeconomics

- 3 credits
- Prerequisite: ECON 200 or ECON 202. MTH 111 College Algebra and sophomore standing recommended. Second term of a three-term sequence in principles of economics. A study of basic microeconomics including elasticity, profits the operations of the four market structures, government policies toward business, and resource markets. May be offered online.

ECON 202 Principles of Economics: Introduction to Macroeconomics

- 3 credits
- Prerequisite: ECON 200 or ECON 202. MTH 111 College Algebra and sophomore standing recommended. Third term of three-term sequence in principles of economics. Study of basic macroeconomics including alternative macroeconomic models of the level of economic activity, money and banking, fiscal policy and monetary policy. May be offered online.
ECON 204 Introduction to International Economics .......................... 4 credits
Introduces principles of international development, trade, and finance. Topics include: history of international development, comparative advantage, free trade, international trade agreements, international finance, foreign exchange markets, international institutions, exchange rates. Labor and capital migration are covered, time permitting.

ECON 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. Topics include: earnings and employment disparities; uneven poverty rates; differential access to housing, health, and education; and economic discrimination. This course examines how the market both enables and obstructs various social groups in their participation in the 'American Dream'. Presented from a political-economy perspective recognizing that economic discrimination is both a measurable and enduring characteristic of market economies.

ECON 260 Introduction to Environmental and Natural Resource Economics ........................................ 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 services, and impact analysis. Policy options considered include: property rights, efficient controls, emissions charges, tradeable pollution permits, and regulatory restrictions. Meets course requirements for the Water Conservation Technician program.

Education
Also see Early Childhood Education
For information, contact the Cooperative Education Division, Bldg. 19/Rm. 201, 541.463.5203.

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 or 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 multicultural 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, pre- pare 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 (seeking an AAS degree) 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.

Electronics
For information, contact the Advanced Technology Division, Bldg. 15/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 will 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 68 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 electronic schematics and diagrams used in the design, assembly, and repair of electrical and electronic systems. The proper 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 68 OR RD 080 OR RD 087 And EL115 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. This first term defines basic electrical units and laws of electrical theory as they apply to DC series, parallel, and combination circuits. AC waveforms and AC circuit components are introduced. Digital multimeters, oscilloscopes and function generators are used to measure electrical signals and troubleshoot basic 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. 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, ET 130. This 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 powerful computer analysis tools such as PSPICE, students are able to simulate and analyze circuits. 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 combination 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 a 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. This course is an introduction to the field of digital electronics. It includes a study of number systems, basic logic, logic gates, logic functions, 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-focussed to build, test and troubleshoot digital systems. A warning 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. Transformers 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 ET 229 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 sequences 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: ET 234. 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 is practiced with an emphasis on troubleshooting.

ET 236 Programmable Controllers 3................................. 4 credits
Prerequisite: ET 235 and 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 conversion topics and the final part covers DC and stepper motors.

ET 239 Microprocessor Applications................................. 1-4 credits
Prerequisite: Second year standing. This is a study of microcontrollers and their programming. These small circuits are self-contained computers, often found on a single chip and commonly embedded in consumer and industrial products where they control various processes. They are used by electronic engineers as well as by experimenters designing gadgets. A programming language such as BASIC or C is introduced. The course explores how microcontrollers can accept inputs, measure external quantities, perform math functions, light displays, control motors, produce sound and measure and react to 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 Radio Communications ........................................ 1-4 credits
Prerequisite: Second year standing or instructor consent. The principles of radio communications systems including Amplitude and Frequency Modulations are explored. This class also includes the examination of basic telephone systems.

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. Students will learn how to take notes from lectures and textbooks, use their preferred learning styles, study for tests, improve memory, read across numerous textbooks, manage time effectively, 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 a 2 part course in Emergency Medical Technician. Successful completion of this two part course qualifies candidate to sit for state and national practical and written licensing exams administered locally. This course provides instruction in a variety of medical and trauma related emergencies. This is a demanding course designed for those who will respond to 911 emergencies in an ambulance or fire rescue and will function within an emergency medical services system, often as a volunteer with a local rural fire department. 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 required for application into the second year of the AAS degree in Paramedicine.

EMT 152 Emergency Medical Technician Basic Part 2......... 5 credits
Corequisite: EMT 151. This course is part 2 of a 2 part course in Emergency Medical Technician. Basic. In this course, students will learn how to make a critical assessment of a patient, and develop a system of care that will improve the patient’s medical condition. The course provides instruction in a variety of medical and trauma related emergencies. This is a demanding course designed for those who will respond to 911 emergencies in an ambulance or fire rescue and will function within an emergency medical services system, often as a volunteer with a local rural fire department. 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 required for application into the second year of the AAS degree in Paramedicine.

EMT 196 Crisis Intervention.................................................... 3 credits
Designed to provide students pursuing a degree in Paramedicine with the knowledge to effectively manage psychological emergencies. Included in this course: physiology of stress and management of stress, Reactions to Inside, rape, and sexual assault, child abuse, death and dying, drug and alcohol emergencies, burnout of the emergency worker and coping with job-related stress. This course is required for application into the second year of the AAS degree in Paramedicine.

EMT 270 Paramedic Part 1...................................................... 10 credits
Prerequisite: Application Co-requisite: EMT 271. Course is part 1 of a 3 part course in paramedic education. This course covers the knowledge, skill and behaviors required of a paramedic. Course subjects include...
include pathophysiology, pharmacology, history taking and patient assessment, advanced airway management, geriatrics, psychiatric emergencies, respiratory emergencies and cardiovascular emergencies. Cognitive and psychomotor domains are measured for competency by a combination of written exams and skill demonstration. The affective domain is measured for competency using published professional standards. A grade of C- or better is required to continue to the next course in the series. Program graduates are eligible to take the Oregon/National Paramedic exam.

EMT 270 Emergency Medical Technology-Paramedic
Course Prerequisites: EMT 270. This course is part 1 of a 3 part clinical experience that includes direct patient care necessary for completion of program objectives. 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 271 Emergency Medical Technology-Paramedic
Course Prerequisites: EMT 270. This course is part 2 of a 3 part course in paramedic education. This course covers the knowledge, skill and behaviors required of a paramedic. Course subjects include trauma, environmental emergencies, labor and delivery, newborn care, neonatology, pediatrics, diabetic emergencies, respiratory emergencies, renal emergencies, overdose emergencies, and toxicological emergencies. Cognitive and psychomotor domains are measured for competency by a combination of written exams and skill demonstration. The affective domain is measured for competency using published professional standards. A grade of C- or better is required to continue to the next course in the series. Program graduates are eligible to take the Oregon/National Paramedic exam.

EMT 272 Paramedic Part 2
Course Prerequisites: EMT 270 Co-requisite: EMT 273. EMT 280 Part 2 Course is part 2 of a 3 part course in paramedic education. This course covers the knowledge, skill and behaviors required of a paramedic. Course subjects include trauma, environmental emergencies, labor and delivery, newborn care, neonatology, pediatrics, diabetic emergencies, respiratory emergencies, renal emergencies, overdose emergencies, and toxicological emergencies. Cognitive and psychomotor domains are measured for competency by a combination of written exams and skill demonstration. The affective domain is measured for competency using published professional standards. A grade of C- or better is required to continue to the next course in the series. Program graduates are eligible to take the Oregon/National Paramedic exam.

EMT 273 Emergency Medical Technology-Paramedic
Course Prerequisites: EMT 271. Corequisite: EMT272. This course is part 2 of a 3 part clinical experience that includes direct patient care related outcomes necessary for completion of program objectives. 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
Course Prerequisites: EMT 272, 273 Co-requisite EMT 275, EMT 280 Part 1 Course is part 3 of a 3 part course in paramedic education. This course provides the knowledge, skill and behaviors required of a paramedic. Course subjects include immunology, abuse and assault, social issues, musculoskeletal disorders, endocrinology, hematology, skin disorders, patients with special challenges, patients with chronic illness, head, ears, eyes, nose and throat disorders. The cognitive and psychomotor domains are measured for competency using written exams and skill demonstration. Scenario labs stage emergencies for training and evaluation of required student competencies. The affective domain is measured for competency using published professional standards. Graduates are eligible to take the Oregon/National Paramedic exam.

EMT 275 Emergency Medical Technology- Paramedic
Course Prerequisites: 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. 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
Course Prerequisites: EMT 272, EMT 273 Corequisite EMT 274. First term of a two-term course where paramedic students continue their learning by interning on an advance life support ambulance that responds to 911 emergencies. Students are paired with highly skilled local paramedics for their learning experience.

EMT 280P2 Co-op Ed: EMT Internship Part 2
Course Prerequisites: EMT 280P1, EMT 275. Second term of a two-term course. A continuation of EMT 280. Designed for students to complete required hours on an advance life support ambulance that responds to 911 emergencies. Students will manage a variety of ambulance calls while being shadowed by their paramedic preceptor. The student completes the course when all requirements have been met, including consistent competency in providing paramedic care within the 911 EMS system.

Energy Management

For information, contact the Science Division, Bldg. 16/Rm. 253, 541.463.3997.

NRG 101 Introduction to Energy Management
This course is designed to fulfill the need for energy management as an integral part of society at all levels. The course presents the various employment opportunities available to energy management students through lectures, video and guest speakers. Technical information includes basic energy accounting and analysis protocol.

NRG 102 Blueprint Reading: Residential and Commercial
This course reviews commercial architectural plans, examining their characteristics and common features. The course content includes material and construction standards, energy management practices, and energy management related design and materials. Introductory drafting and plans drawing skill will be presented including sketches, free hand and cutting plan methods.

NRG 103 Sustainability in The Built Environment
This course introduces the relationship between sustainability and buildings. Addresses the “Three Es of Sustainability” in the built environment including the ENVIRONMENTS, industry ECO-NOMIC benefits of conservation and efficiency and social EQUALITY. The course explores the Leadership in Energy and Environmental (LEED) Design framework. May be offered online.

NRG 105 Green Careers Exploration
This course is an introduction to a wide range of technical careers related to sustainability, energy management, water resources and transportation. Students will make career connections with green career options and a more sustainable economy, environment and society. They will identify personal career goals and skill sets needed for green jobs.

NRG 110 Energy Efficiency Industry Software Applications
This course is designed to familiarize students with Energy Efficiency Industry Software Applications within the Energy Efficiency industry. This course will cover the basic features of each software application as well as how to use the software to solve common problems and/or basic tasks.

NRG 111 Residential/Light Commercial Energy Analysis
Prerequisite: PH 101 or Department Approval. 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
Prerequisite: NRG 111 and NRG 121 and MTH 095 or Math Placement Test or Department Approval. Emphasis is on the analysis of energy use in commercial buildings. Topics include utility bill analysis, identifying energy consumption sources and related efficiency measures, use of micro-data-gathering energy savings and investment calculations, audit report writing. Students complete a supervised field audit.

NRG 113 Building Energy Simulations
Prerequisite: NRG 112 and MTH 095 or Math Placement Test or Department Approval. The course covers the variety of computer programs available for analyzing commercial buildings. Topics include B1N 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
Prerequisite: PH 101 or Department Approval. Students investigate the physical principles of HVAC systems. Topics include related HVAC system equations, refrigeration, psychrometrics, central forced air systems, ground coupled heat pumps, SEERs, EERs, AFUEs, fuels, and unitary single zone and multiple zone secondary systems.

NRG 122 Commercial Air Conditioning System Analysis
Prerequisite: NRG 121 or Department Approval. Students learn to identify commercial HVAC system types and the energy impact of each type. Calculations will be used to determine HVAC system efficiency. Students will investigate HVAC delivery systems.
NRG 123 Energy Control Strategies ...................................................... 4 credits
Prerequisite: NRG 122 and NRG 124 or Department Approval. Topics include building system control theory and devices, including electrical, pneumatic, and digital controls. An emphasis is placed on identifying and understanding control strategies to estimate energy savings. Hands on labs reinforce device identification. Students complete an energy efficiency controls calculation project.

NRG 124 Energy Efficiency Methods ................................................ 4 credits
Prerequisite: PH 102. Corequisite: NRG 121 or Department Approval. Students learn analysis of energy systems with a focus on efficiencies, devices, and conversion devices. Students will gain proficiency in some common units and formulas required to work with energy and power and analyze the energy or cost savings associated with efficiency strategies.

NRG 131 Lighting Fundamentals ...................................................... 3 credits
Prerequisite: PH 101 and PH 102 or Department Approval. Topics include assessment of quality and quantity of light, light sources, luminaries, lighting controls, manufacturer lamp and ballast specifications, lighting power density, lighting-HVAC interactions, retrofit opportunities, cost savings analysis, and lighting codes/ regulations. Requires a directly supervised lighting audit project.

NRG 132 Lighting Applications .......................................................... 3 credits
Prerequisite: NRG 131 and MTH 095 or Math Placement Test or Department Approval. Topics will include a review of terminology and lighting fundamentals. Students evaluate lighting systems, luminaries, and associated components and perform illumination calculations, become familiar with the IES Illuminance selection procedure and IES recommended practices for various space types. Students will work as team members.

NRG 141 Energy Investment Analysis ............................................... 3 credits
Prerequisite: NRG 111 or Department Approval. Analysis of energy investments using spreadsheets to consider total cost-benefits over the life of the investment. Topics include simple and compound interest, present and future value, and life-cycle cost analysis, time value of money, cost benefit analysis, effects of tax credits, inflation, escalation, 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 renewable energy that may be used to increase energy supply in the Pacific Northwest. Included are geo-thermal, wind, low head hydro, solar and biomass. Environmental, social and economic advantages of each source are assessed.

NRG 155 Photovoltaic System Design and Installation 1 ................... 4 credits
Prerequisite: PH 101 and PH 102 or MTH 095 or Math Placement Test. Corequisite: NRG 157 or Department Approval. 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 out.

NRG 156 Photovoltaic 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 tie 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 or Department Approval. 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 or Department Approval. This hands-on course covers the Oregon Plumbing code as it relates to solar Domest Hot Water (DHW) system installation. System type, tanks, controls, pumps, valves, mounting systems and installation safety will be discussed and demonstrated. Students will use materials designed for installation practice both indoors and out.

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 system type, tanks, controls, pumps, valves, mounting systems and installation safety in greater detail.

NRG 162 Solar Photovoltaics System Design and Installation 3 ............ 4 credits
Prerequisites: NRG155 and NRG156. Students will understand PV systems and installation safety. Hands on training modules and electronics used to implement building automation; control loop logic, schematic diagrams, sequences of operations with applications for desired system behaviors. Controls design process, implementation, and commissioning using industry software and equipment.

NRG 181 Direct Digital Controls 1 ..................................................... 4 credits
Prerequisite: NRG 181. Students will install central controls, controllers, wiring of all building lighting control systems ranging from simple manual on/off switching to complex automatically-controlled systems to newer digitally controlled systems. Students will identify and describe lighting systems/types/technology, including control systems with emphasis on comparing the benefits of one system versus another. Students will modify control system parameters based on original design or new control sequences.

NRG 183 Controls Retuning and Troubleshooting ............................ 4 credits
Prerequisite: NRG 181. Diagnostics and troubleshooting building control systems. Use occupant comfort complaints or other alerts, 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 diagrams, sequences of operations with applications for desired system behaviors. Controls design process, implementation, and commissioning using industry software and equipment.

NRG 185 Lighting Controls ................................................................. 4 credits
Prerequisite: NRG 181. Students will gain functional knowledge of a variety of commercial building lighting control systems ranging from simple manual on/off switching to complex automatically-controlled systems to newer digitally controlled systems. Students will identify and describe lighting systems/types/technology, including control systems with emphasis on comparing the benefits of one system versus another. Students will modify control system parameters based on original design or new control sequences.

NRG 206 Co-op Ed: Energy Management Seminar ......................... 2 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.

WATR 150 Water Resource Economics .................................... 4 credits
Prerequisite: MTH 095. Applies economic and financial fundamentals to water issues such as, efficient allocation; utility rate structures; benefit-cost analysis; water pricing; supply and demand; policy relationships; and scarcity links to pricing. This is an introduction to performing analysis of water projects.
ENGR 101 Engineering Orientation .............................. 3 credits Prerequisite or Corequisite: MTH 251 completed with a grade of “C−” or better within the past eight terms. This course is designed to examine the history, philosophy, key leadership theories scholarship, we will examine the social construction of race and ethnicity, theories of prejudice, and a historical overview of various ethnic and racial 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 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 a historical overview of various ethnic and racial 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 and 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 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.

ES 121 African American Leadership: History, Philosophy, and Practice .......................... 4 credits African American Leadership: History, Philosophy, and Practice is a course designed to examine the history, philosophy, key leadership strategies and practices of African American leaders. This course focuses on African American leaders. This course presents theory of stress and strain, shear, bending, torsion and combined stresses, temperature-induced stresses, and elements of indeterminate analysis. Additional topics include axially loaded members, thin-walled pressure vessel, torsional and flexural loading, failure theory and column buckling.

ES 211 Statics .................................................................. 4 credits Prerequisite: MTH 252 and PH 211 completed with a grade of “C−” or better within the past eight terms. This course is designed to examine the history, philosophy, key leadership theories scholarship, we will examine the social construction of race and ethnicity, theories of prejudice, and a historical overview of various ethnic and racial 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 212 Dynamics .................................................................. 4 credits Prerequisite: ENGR 211 and MTH 252, both completed with a minimum grade of “C−” or better within the past eight terms. Course presents theory of stress and strain, shear, bending, torsion and combined stresses, temperature-induced stresses, and elements of indeterminate analysis. Additional topics include axially loaded members, thin-walled pressure vessel, torsional and flexural loading, failure theory and column buckling.

ES 213 Strength of Materials .................................................. 4 credits Prerequisite: ENGR 211 and MTH 252, both completed with a minimum grade of “C−” or better within the past eight terms. Course presents theory of stress and strain, shear, bending, torsion and combined stresses, temperature-induced stresses, and elements of indeterminate analysis. Additional topics include axially loaded members, thin-walled pressure vessel, torsional and flexural loading, failure theory and column buckling.

ES 221 African American Studies: Down From the Pyramids, Up From Slavery .................................................. 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.

ES 222 African American Studies: A Luta Continua: The Struggle Continues .................................................. 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.

ES 223 Chicano/Latino Studies: Political and Ideological Perspectives .................................................. 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.
American responses to systematic oppression towards goals of individual and group liberation.

ES 241 Native American Studies: Consequences of Native American & European Contact .................................4 credits
This course deals with Native Americans and Alaskan Native cultures, 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 characterize 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 confronting the ideological and physical intrusion of Europeans is studied.

ES 243 Native American Studies: Contemporary Indigenous Issues ..........................................................4 credits
This course examines the ongoing impact of colonialism on indigenous peoples in the U.S. Identity, citizenship, sovereignty, treaty rights, land/resource ownership and use, political activism, education, and economic issues are explored. This course also looks at alliance-building between indigenous peoples and other groups here and abroad.

ES 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. 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.

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 a political economy perspective to examine issues such as earnings and employment disparities, uneven poverty rates, differential access to housing, health and education. 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 struggles shared by diverse social groups, while recognizing that socioeconomic 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, 541.463.5645.

EXMS 120 Research Methods in Exercise Science ..................2 credits
Prerequisite: EXMS 194S, EXMS 194X and EXMS 196 Corequisites: EXMS 194T and EXMS 295 This class focuses on the scientific process that shapes the field of exercise science. We will use quantitative data to address questions in exercise epidemiology. (AG) Students will gain experiential training through primary research with primary re-reading, evaluation of information, quality, and developing evidence-based conclusions.

EXMS 135 Applied Exercise Physiology 1..............................3 credits
This course introduces EXMS Program students to the neuromuscular, cardiovascular and respiratory responses to acute exercise, and long-term physical training. Exercise metabolism, physiological fuel systems and hormonal control will also be discussed.

EXMS 194A Fitness Assessment .............................................3 credits
Prerequisite: EXMS 120 and EXMS 194P. Students learn field and laboratory fitness assessment procedures. Students collect data according to standardize protocols, interpret results and identify appropriate exercise progressions for clients. Students learn to identify effects of common pharmacological agents, disease status, and other conditions on exercise response and capacity.

EXMS 194F Professional Activity: Fitness Assessment and Exercise Prescription-Field Techniques .....................3 credits
This course introduces students to exercise prescription principles and exercise program design. Students learn to prescribe exercise for healthy populations or populations with medically controlled disorders, exercise type, volume, progression, client motivation, goals, safety, and enjoyment are emphasized.

EXMS 194L Fitness Assessment and Exercise Prescription- Laboratory Techniques ..............................................3 credits
Prerequisite: EXMS135 and Prerequisite/Co-requisite: EXMS 194F and Program Admission. Advanced physical fitness testing procedures performed in a laboratory setting (maximal and sub-max exercise tests on cycle ergometer and treadmill, anaerobic capacity, respiratory function, lactate, and body composition testing). Test results for clients are calculated and analyzed and interpreted.

EXMS 194P Exercise Prescription ..........................................3 credits
Introduces students to exercise prescription principles and exercise program design. Students learn to prescribe exercise for healthy populations or populations with medically controlled disease. Exercise type, volume, progression, client motivation, goals, safety, and enjoyment are emphasized.

EXMS 194S Professional Activity: Principles of Strength Training and Conditioning Instruction .................................2 credits
This course introduces 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 fitness-based careers.

EXMS 194T Techniques of Group Exercise Leadership ..............2 credits
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.

EXMS 195 Interdisciplinary Practicum .....................................1-3 credits
Prerequisite: EXMS 194F Supervised practicum in professional fitness, physical education, aerobic fitness, athletic training, athletics, coaching, corrective fitness, fitness management, recreation, wellness, or other similar program, on campus. Weekly logs and other written assignments may be required. The work-site supervisor will orient, direct, instruct and evaluate the student’s performance. The instructor will meet on-site with the student’s supervisor, discuss student performance, and do a final evaluation at the end of the term. Students will evaluate their progress at the end of the experience. Instructor approval required for practicum site and credit load.

EXMS 196 Applied Anatomy and Kinesiology ..........................4 credits
Introduces students to basic anatomy and kinesiology principles of movement and exercise. Topics include identification and movement of major muscle groups and joints, skeletal structure, and planes/axes of movement. Course work focuses on practical application for the fitness professional.

EXMS 214 Physiology of Exercise & Healthy Aging .................3 credits
Teaches 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
Explores 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, EXMS194F and Program Admission. Advanced application of EXMS 135 concepts including: environmental factors on exercise performance, training for optimal athletic exercise performance, ergogenic aids, and the effects of age, disease, and medical conditions on exercise training and performance. Scientific literacy is emphasized.
EXMS 240 Mental Dynamics of Exercise and Sport .................. 3 credits
Course introduces students to the mental dynamics of exercise and sport. Designed for exercise professionals to explore and apply the concepts of motivation, adherence, anxiety, over training and behaviors modification in an exercise and sport setting. May be offered online.

EXMS 294 Foundations of Fitness Management .................. 3 credits
Prerequisite: Program Admission. 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. Guidance in job search practices and resume development.

EXMS 295 Injury Prevention and Management .................. 3 credits
Prerequisite: EXMS 194F, EXMS 194S, EXMS 196. Assists 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. Students will gain knowledge, develop skills, get teaching experience and explore career options while earning credit toward a degree or certificate. 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. Students will gain knowledge, develop skills, get teaching experience and explore career options while earning credit toward a degree or certificate. 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. Students will gain knowledge, develop skills, get teaching experience and explore career options while earning credit toward a degree or certificate. Journals and other written assignments required.

PE 280C Co-op Ed: Coaching .................. 1-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in a coaching site on or off campus. Students will gain knowledge, develop skills, get coaching experience and explore career options while earning credit toward a degree or certificate. 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 professional fitness program on or off campus. Students will gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. 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. Students will gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. Journals and other written assignments required.

PE 280R Co-op Ed: Recreation .................. 1-12 credits
Prerequisite: Instructor approval for site and credit load. Supervised internship in a corrective fitness program on or off campus. Students will gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. 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. Students may gain knowledge, develop skills, get experience and explore career options while earning credit toward a degree or certificate. 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. Journals and other written assignments required.

WLD 111 Blueprint Reading for Welders .................. 3 credits
Prerequisite: Minimum reading score of 88 OR RD 080 OR RD 087 And EL115 OR Prior College. Course studies the purpose and standards of American Welding Society welder qualification tests. It also 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: 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 processes. These skills are learned in the context of assigned and graded practice projects.

WLD 113 Fabrication/Welding 2 .................. 12 credits
Prerequisite: 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. Safe lift truck operation training is also provided in this course.

WLD 114 Fabrication/Welding 3 .................. 12 credits
Prerequisite: WLD 112 and WLD 113 and WLD 141 and WLD 210 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-S, gas tungsten arc welding, and SMAW. Safe overhead crane operation is also provided in this course.

WLD 121 Shielded Metal Arc Welding 1 .................. 1-4 credits
Prerequisite: Minimum reading score of 88 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 continued training in oxyacetylene cutting. Welding using 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 .................. 1-3 credits
Prerequisite: Instructor consent and Minimum reading score of 88 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 wire drive 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 shielded metal 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 practice of pipe 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 Metallurgy .......................... 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 process using self shielded core 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 wire drive process using self shielded core 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 215 Fabrication/Welding 4 .................................... 12 credits
Prerequisite: WLD 144 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 particularly pertaining to welding of carbon and stainless steel.

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 concepts in ferrous metallurgy and their applications particularly pertaining to welding of carbon and stainless steel.

WLD 242 Gas Tungsten Arc Welding 1 ................................. 3 credits
Prerequisite: Minimum reading score of 68 OR RD 080 OR RD 087 And EL115 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.

Family Studies - See Human Relations

Film - See Literature, Media Arts

Flight
Also see Aviation Maintenance
For information, contact Flight Technology, Airport Road, 541.463.4195.

AS 111 The Air Force Today ............................................. 1 credits
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 credits
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 credits
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 credits
Cadets learn leadership, 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 credits
Study of air power from balloons and dirigibles through the jet age; 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 credits
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 credits
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 credits
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 220 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 general aviation resources. It will stress the role of the fixed base operator, and the importance of the interview in the hiring process.

FT 101 Exploring Aviation Careers: Summer Academy .......... 1 credits
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.
FT 228 Multiengine Ground School
Prerequisite: Testing: minimum reading score of 68. This course will
FARs, airplane structures, aerodynamics, meteorology, naviga-
cations essential for successful completion of the FAA written exam-
Student exits course able to apply safety lessons to flight
operations.
FT 115 Aircraft Structures and Systems
Designed to give a pilot a thorough understanding of airplane sys-
tems and structural design.
FT 123 UAS Commercial Test Prep
This course is designed to help students prepare to take the FAA
UAS written examination in order to get their Remote Pilot Airman’s
Certificate. It will be divided into five parts: Aircraft Operation, Regu-
FT 124 UAS Flight Lab
This course will act as the hands on portion of all elective UAS
courses in the form of multiple TCO’s. This course will emphasize
safety of flight through the use of UAS and FAA regulations. Stu-
dents will learn to operate fixed wing and multi-copter UAS.
FT 130 Primary Flight Briefing
Prerequisite: Testing: minimum reading score of 68. This course will
help students to master key areas of aeronautical knowledge neces-
sary to progress efficiently toward the Private Pilot Certificate. May
be offered online with instructor approval.
FT 228 Multiengine Ground School
2 credits
Recommend 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 opera-
tions including emergency procedures. Part 2 develops advanced
multi-engine airplane systems and operation. Multi-engine airplane
operational procedures training including both normal and emer-
gency procedures skills development.
FT 239 Part 141 Professional Pilot Flight Lab
Prerequisites: Admission to the program requires completion of a
Flight Technology Entrance Application, and obtaining a Student
Pilot Certificate with an Airman’s Medical (1st or 2nd Class). The Pro-
fessional Pilot Course includes certification training for Private Pilot,
Commercial Pilot, and Instrument Rating, in single-engine or multi-
engine airplanes, and helicopter, when helicopter training becomes
available. Emphasis throughout the 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 Part 61 Pilot Flight Lab
Prerequisites: Admission to the program requires completion of a
Flight Technology Entrance Application, and obtaining a Student
Pilot Certificate with an Airman’s Medical (1st or 2nd Class). The Part
61 Pilot Flight Lab includes certification training for Private Pilot,
Commercial Pilot and Instrument Rating in single-engine, or multi-
engine airplanes and helicopters, when helicopter training becomes
available. It may also be used for Flight Instructor, Instrument
Flight Instructor, and Multi-engine Instructor certification. Emphasis
throughout the Part 61 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 an alternative to FT 239 which is for Part 141 students, and is an
option for those students who would prefer to train under Part 61.
This course is repeatable.
FT 250 Private Pilot Ground School
This course introduces and develops each knowledge and skill
areas essential for successful completion of the FAA written exam-
ination for a Private Pilot Airplane and/or Helicopter. Topics include
FARs, airplane structures, aerodynamics, meteorology, naviga-
tion, accessing and using performance data and numerous other
industry information resources. May be offered online with instruc-
tor approval.
FT 251 Commercial Pilot Ground School
Recommend private pilot license or equivalent. This course deals
with the knowledge and skills required for a candidate to successfully
pass the FAA written test required to be certificated as a commercial pilot. NOTE: FT 251 and FT 262 are co-requisites and
must be taken concurrently.
FT 252 Instrument Ground School
Recommend 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
emphasis throughout the Instrument Flight course is on understand-
ing the IFR environment, systems and procedures. NOTE: FT 252 and FT 262 are co-requisites and must be taken concurrently.
FT 254 Aerodynamics
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 airfoil design on aircraft performance.
FT 255 Fundamentals of Instruction and Human Factors
Psychological principles of the human learning process with meth-
ods to improve instructor effectiveness. Human factors including
hazardous attitudes, fatigue, human error, decision making, cock-
pit design and ergonomics of the man/machine interface are cov-
eered. Studies CRM to improve crew coordination and situational
awareness.
FT 256 Flight Instructor-Airplane and Instrument Flight Instructor-
Airplane Ground School
Details of airplane flight operations and maneuver analysis, FAA reg-
ulations, and recommended procedures for CFIs. CF-I prep includes
a concise review of airspace, regulations, radio navigation, and
meteorology specific to IFR flight. Prepares students for the FAA
Flight Instructor-Airplane and Instrument Flight Instructor written
exams.
FT 261 Air Traffic Control and Airspace
Review of Air Traffic Control (ATC) procedures and communica-
tions, radar and non-radar operations, navigational aids, and air-
space classifications to include operational requirements for various
airspace classifications. At completion of this course the student
should be able to understand and apply critical elements of ATC
within the National Airspace System. NOTE: FT 251 and FT 261 are
co-requisites and must be taken concurrently.
FT 262 Aviation Law and Regulations
A review of regulations and enforcement actions primarily refer-
ing 14 CFR but also including international (ICAO) regulations.
Aircraft and pilot certification, rule-making legislation and imple-
mentation, and an analysis of aviation regulatory environments and
processes will be reviewed, including legal decisions resulting from
airworthiness accidents. At completion of this course the student
should be able to understand and apply pertinent regulations from 14 CFR to
instrument and commercial flight operations. NOTE: FT 252 and FT
262 are co-requisites and must be taken concurrently.
FT 280 Co-op Ed: Flight Tech
This course provides students with flight-related learning in busi-
nesses and public organizations as well as integrating theory and
practice gained in the classroom with practical experience in the pro-
fessional world. Students will develop skills, explore career options
and network with professionals and employers while earning credit
toward a degree.
GS 109 Meteorology
This course is a survey of the field of meteorology with detailed
emphasis on the elements specific to the aviation industry. Stu-
dents exit this course understanding how to access, analyze and
use weather data to make decisions essential for safe flight.
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 and its impacts on the 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 104, Global Climate Change. This course meets the AACT 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. GIS 101 is strongly recommended. Digital Earth is a computer-aided instructional introduction to geographic 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.

GIS 151 Digital Earth................................................4 credits
Prerequisite: MTH 060 or above. GIS 101 is strongly recommended. Digital Earth is a computer-aided instructional introduction to geographic 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. May be offered online.

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 foundation of geographic 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. May be offered online.

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. May be offered online.

GIS 280 Co-op Ed: Geographic Information Science........3-12 credits
Cooperative Education is a work experience opportunity for students that have completed two GIS classes: GIS 151 and GIS 245) and have the instructors approval. Contact Lynn Songer, GIS Instructor songer1@lanecc.edu.

Geology - See Earth and Environmental Sciences

Graphic Design

For information, contact the Art and Applied Design Department, Bldg. 11/ Rm. 101, 541.463.5409.

ART 115GD Basic Design: Fundamentals for Graphic Designers........................................4 credits
A beginning course in two-dimensional design covering fundamental visual elements, concepts, and principles with an emphasis on how these fundamentals apply to the field of Graphic Design. Recommended for Art and Applied Design majors as well as non-majors. Coursework includes visual elements and principles in two dimensional design media and processes. Students will create and analyze projects that demonstrate critical and creative thinking and knowledge of 2D Design theory and practice. The course also includes in-depth career information about Graphic Design including an investigation into job opportunities, the design process, required skills, education, and work conditions. Coursework includes necessary competencies for graduation from the Graphic Design program. Recommended for Art and Applied Design majors as well as non-majors.

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 craftmanship and technical skills are stressed. Coursework includes necessary competencies for the Graphic Design program.

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 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 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. 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...................................................3 credits
Prerequisite: ART 131. An introduction to the field of illustration. Emphasis on developing skills in various illustration media, perceptual skills, compositional development, and basic thematic awareness, solving visual, conceptual problems and developing a personal style. Student will create and analyze projects that demonstrate critical and creative thinking and knowledge of drawing media and theory. This course satisfies the Intermediate Drawing level credit. Recommended for Graphic Design and Media Arts majors. This course is for Art and Applied Design majors and for non-art majors. May be repeated for 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 practical 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. Contact the graphic design co-op coordinator before registering. Course content and expected learning proficiencies vary term to term. Course may be repeated.

ART 289 Web Production................................................................. 3 credits
Prerequisite: 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 through Distance Learning, traditional classroom instruction, or as a hybrid course.

GD 110 Introduction to Graphic Design............................................ 1 credits
An introductory course that presents in-depth information about a career in Graphic Design. Includes an investigation into job opportunities, the design process, required skills, education, and work conditions. Coursework includes necessary competencies for graduation from the Graphic Design program.

### Health and First Aid

For information, contact the Health and PE Division, Bldg. 5/Rm. 205, 541.463.5545.

HE 125 Workplace Health and Safety.............................................. 3 credits
This course will increase overall safety awareness and provide practical knowledge of occupational and environmental health and safety. Students will explore the connections between psychological health, personal 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 our 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. Students will study the psychological, sociological, and ethical factors that contribute to the development and expression of sexuality. This class will be explored and discussed. May be offered online.

HE 222 Exploiting Healthy Consumer............................................ 3 credits
Helping students make healthy decisions while managing everchanging health information. Hot topics include: health conditions & diseases, self-care, evaluating fitness choices, ads & quackery, alternative health, health insurance, death & dying, budgeting, consumer laws, & preventative health. May be offered online.

HE 240 Holistic Health............................................................... 3 credits
This class will explore the field of holistic health by learning about a variety of alternative healing practices and methods. We will examine how complementary and alternative medicine (CAM) contrasts with conventional western medicine so that students can 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 online.

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 will focus on emergency first aid response, health assessment, care, prevention and promotion. Students will learn and be certified in life-saving skills for all ages, in airway obstruction, CPR, shock, soft tissue & skeletal injuries, sudden illness, and a variety of other emergencies.

HE 255 Global Health and Sustainability..................................... 4 credits
Students will discover how current global systems of power and privilege can affect our health by exploring the connections between; social stratification, poverty, violence, hunger, disease, ecological decline, consumption, production, exploitation, alternatives & social change.

HE 261 Cardiopulmonary Resuscitation .................................... 1 credits
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 American Red Cross 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 knowledge and skills to earn American Heart Association’s Basic Life Support (BLS) for Healthcare Providers certification. Patient assessment, breathing and cardiac emergencies, prevention of chronic disease and factors in emergency or trauma care are explored and practiced.

HE 275 Lifestyle Health and Fitness............................................. 3 credits
This course provides an overview of current evidence based fitness research and its relationship to achieving optimal health. Students will explore the components of fitness, best practices in nutrition, weight management guidelines, stress management, and chronic disease prevention. May be offered online.

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 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 disordered eating from a public health perspective. Evidence-based research, genetics, environmental and family influences, exercise, diet, and multifaceted responsibility will be examined. May be offered online.

### Health Information Management

For information, contact the Health Professions Division, Bldg. 30/Rm. 209, 541.463.5182. You must be accepted into the Health Information Management 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 101 Introduction to Health Care and Public Health in the US................................................................. 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.

HIM 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 for billing and transfer forms. Introduction to the use of CPT-4 and ICD-9/10-CM coding. Introduction to the CMS provider billing form. May be offered online.

HIM 114 Introduction to Medical 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. Basics of ICD-9/10-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. May be offered online.

**HIM 120 Introduction to Health Information Management** ................................................................. 3 credits
Survey class to introduce the student to the historical development of health information management. Focusses on the work and responsibilities of health information professionals and their relationships with other health care providers, also, content and structure of patient records; quantitative and qualitative analyses of the documentation of patient care; storage methods; and retrieving patient data elements will be explored. May be offered online.

**HIM 153 Introduction to Pharmacology** ................................................................. 3 credits
This course provides an overview of pharmacology for health care 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. May be offered online.

**HIM 154 Introduction to Disease Processes** ................................................................. 3 credits
Prerequisite: HO150 and HO152 with a C or higher, 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 general vocabulary, 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. May be offered online.

**HIM 183 Introduction to Health Information Systems** ............ 4 credits
This course examines the foundations of health information technology used by health care entities. Students will explore the use of information systems and their application through literature review and hands-on experiences. Topics include clinical and administrative applications used in the role of HIM professionals. Offered online.

**HIM 200 Healthcare Statistics** ................................................................. 3 credits
Prerequisite: BI231 and BI232 with a C or higher. BI233 is recommended. Healthcare statistics presents the collection and integration of given data. Computations of various formulas are used in analyzing and converting this data to useful information. Students learn appropriate methods to analyze, interpret, and present various types of data applicable to a variety of health care needs, i.e. patient care, management of a facility, and mandatory reporting requirements. Offered online.

**HIM 206 Co-op Ed: Employment in Healthcare:** 2 credits
Acceptance to HRT or HIM program, or instructor consent. Students will develop job search tools and skills in preparation for internships and employment in health care including job research, resume writing, applications, and interviewing. Students will learn how to start and keep a job, leave a job with grace, and secure references.

**HIM 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. May be offered online.

**HIM 222 Reimbursement Methodologies** ................................................................. 3 credits
This course will provide students with the understanding of 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.

**HIM 230 Quality Improvement in Healthcare** ................................................................. 3 credits
This course investigates the components of quality and performance improvement, and explores the functions of risk management, utilization management, and case management. Quality improvement components, along with regulatory requirements will be investigated. Students will learn skills in data analysis, performance improvement tools, and data presentation. HIM Program Students may be given enrollment priority. Offered online.

**HIM 241 Health Information Management Applications 1** .......... 4 credits
Prerequisites: HIM120, HIM163, HIM101, HIM 105, HIM222, and HIT107. Minimum grade of C. This course examines the foundations of health information technology used in the collection and management of clinical information. Topics covered: the function, content, and structure of the health record. Data sets and healthcare information requirements and standards will also be covered. Offered online.

**HIM 242 Health Information Management Applications 2** .... 4 credits
Prerequisite: HIM241 passed with a “C” or higher or instructors consent. This course covers the history and use of clinical vocabularies, health care reimbursement methodology, principles and supervisory management; including resources management responsibilities, such as job position descriptions, performance/practice standards, and policies and procedures. Students will study topics on Human Resources, RHISs, PHRs, and medical identity theft. Offered online.

**HIM 270 ICD Coding** ................................................................. 4 credits
Prerequisite: HO100, HO150 or BI232 with a C or better) Co-requisite: BI233. BI231, BI232, and BI233 (all three with grades of C or higher); or instructor consent. This is a Part 2 series. Examines the development of coding classification systems. Introduces ICD coding classification system, its format and conventions. Emphasizes the rules and guidelines of basic coding steps and guidelines according to body systems. May be offered online.

**HIM 271 ICD-10 Coding 2** ................................................................. 4 credits
Prerequisite: HO 152 (or BI233 with a C or better). Part 2 of 2 part series. Continues with advanced ICD-10 coding classification systems and skills development, its format and conventions. Emphasizes basic coding steps and guidelines according to body systems. Provides advanced coding exercises in relation to each system covered. Offered online.

**HIM 273 CPT Coding 1** ................................................................. 4 credits
Prerequisites: HO100 and co-req/pre-req: HO152 ( BI 231, BI 232, and BI233 be substituted for HO152). This is Part 1 of a 2 Part series. Study and application of Current Procedural Terminology (CPT) and Health Care Procedural Coding System (HCPCS) coding. Includes coding systems, reimbursement, coding guidelines and standards, evaluation and management, and surgical, radiology, pathology, and laboratory and medicine procedures. May be offered online.

**HIM 275 CPT Coding 2** ................................................................. 4 credits
Prerequisites: HIM 273. This is Part 2 of a 2 Part series. This course continues with the remaining remaining body systems, along with HCPC coding which is essential to healthcare reimbursement and data collection schemes. Additional coding and billing systems may be explored, such as DRG, as applicable. Offered online.

**HIM 280 Co-op Ed: Health Information Management** ...... 3-12 credits
Prerequisites: Instructor approval. HIM students will increase their understanding of industry expectations as well as technical work experience in a health care organization or virtual lab, or combination of both. In this course students will also explore career options, and network with professionals and employers while earning credit toward a degree.

**HIT 105 EHR for the Provider Office** ................................................................. 3 credits
This course provides students the opportunity to deepen their understanding, and establish proficiency in creating, completing and entering coding and billing information. This course utilizes an applied approach using simulation software that features assignments directly mapped to ABHES and CAAHEP competencies. This course may be offered online.

**HIT 107 Integrated Electronic Health Records** ................................................................. 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.” Within this environment, they will experience threats to security and appreciate the need for standards, high levels of usability, and sources of errors. May be offered online.

**HIT 111 Implement and Customize Electronic Health Records** ................................................................. 4 credits
Prerequisite: HIT 107. 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 interrelated roles, professional roles, legal and regulatory issues, payment systems, public health policies and the importance of health reform initiatives. May be offered online.

**HIT 160 Practice Management** ................................................................. 3 credits
Introduces medical practice management software. Students learn to create and maintain 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. Creation of patient statements, dunning letters, and insurance appeals. Offered online.

HO 100 Medical Terminology 1................................. 3 credits
A programmed learning course covering basic medical terminology, derivation, pronunciation, and meaning. This course presents a study of basic medical terminology, Prefixes, suffixes, word roots, combining forms, special endings, plural forms, and abbreviations are included in the content. This course is taught both on campus and online.

HO 110 Health Office Procedures............................. 3 credits
Principles of healthcare office procedures, including HIPAA compliance, filing and records management, legal and ethical concerns of confidentiality & privacy, fundamentals of client reception, appointment scheduling, telephone techniques, and letter composition. May be offered online.

HO 150 Human Body Systems 1............................... 3 credits
Prerequisite or corequisite: HO 100. Part 1 of a 2 part series. This course introduces the fundamental concepts of the anatomy and physiology of the cell and skin, musculoskeletal, nervous, sensory, endocrine, and circulatory-lymphatic systems. May be offered online.

HO 152 Human Body Systems 2............................... 3 credits
Prerequisites: HO 150 Human Body System Part 1. In 2 of a 2 part series. This course introduces the fundamental concepts of the anatomy and physiology of the respiratory, digestive, urinary, and reproductive systems. A basic introduction to microorganisms is included. May be offered online.

History

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

HST 101 History of Western Civilization.................... 4 credits
A survey of the historical development of the early Western world, peoples, and societies that have influenced it including the Greeks, the Jewish, the Romans, and Christians, the Germanic and Islamic influences in the wake of the fall of Rome, and the early Renaissance. This course will provide an overview of diverse peoples and nationalities, the creation of and changes in religious systems, ideas, social structures, and political institutions while considering connections to our modern world. May be taken out of sequence. May be offered online.

HST 102 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, economies, 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 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 these processes will conspire with the connections of select topics and concepts to the shaping of our present world. May be taken out of sequence. May be offered online.

HST 105 World History..................................... 4 credits
A survey of diverse peoples using the theme of “movement” to highlight cultural contact during the emergence of new world patterns beginning in approximately 1400 to 1815: It will include topics of exploration and expansion, state building, religious and their impact on culture, war, politics, selected individuals, global trade and consequences. May be taken out of sequence. May be offered online.

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, war and revolution, 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 online.

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 in both 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 designed to shed light on the reasons for U.S. involvement and the factors behind the failure of 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. Native America, European colonization, colonial development, origins of slavery, Revolution, early Republic. May be taken out of sequence. May be offered online.

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. Jacksonian era, expansion, commercial and industrial revolution, slavery, Civil War, Reconstruction, Gilded Age, Populism. May be offered online.

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, Progressivism, the 1920s, Depression and New Deal, World Wars and Cold War, 1960s, 1970s and recent developments. May be taken out of sequence. May be offered online.

HST 208 US History Since 1945........................... 4 credits
A 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 and Presidents of the era.

HST 209 American History: The Civil War............... 4 credits
The Civil War course is based in part on the award-winning documentary film series of the same name. Its subject matter is the history of the U.S. Civil War and it is designed to help students grasp the political, social, and economic realities of the conflict. This course has progressed in both the North and South, the problems of the Northern and Southern governments during the war, the major military campaigns of the war, and the impact of the war upon the civilian population. Offered as an online class only.
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, and war, the ‘feminine mystique,’ and personal politics. The coursework will also include implications of race, class, and ethnic differences among women over time.

Honors
For information, contact honors@lanecc.edu.

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. See lanecc.edu/honors for information. This course traces the transition of human societies from a predominantly hunting and gathering 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. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

ARH 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. See lanecc.edu/honors for information. 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. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

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. See lanecc.edu/honors for information. Beginning course in two-dimensional design for art and non-art majors. Emphasis on fundamental visual elements—concepts and theory—basic to drawing, painting, graphic design and other media. Strongly recommended for first year art majors, taken prior to ART116 and concurrently with ART111 and ART131. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

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. See lanecc.edu/honors for information. BI 101 topics: atoms, molecules, cellular processes, genetics, protein synthesis, photosynthesis, respiration. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

BI 102_H General Biology: Genetics and Society-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. 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. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

COMM 111_H Fundamentals of Public Speaking-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. See lanecc.edu/honors for information. This course is designed to help students learn to express their ideas to an audience with confidence and also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

COOP 280_H Co-op Ed: Service Learning-Honors.............3-12 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. Prerequisite: Instructor approval. Gain experience with and give back to community partners in addressing 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.

ENG 105_H Introduction to Literature: Drama-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 is a reading, writing, and discussion course that features critical analysis and appreciation of a wide variety of world plays beginning with the classical Greek period and ending with works of today.

HON 280_H Co-op Ed: International Work Experience-Honors.........................................................1-12 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. See lanecc.edu/honors for information. Prerequisite: Instructor approval. Gain experience through LCC and IE3 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: ie3global.org

PHL 201_H Ethics-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. 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 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 fields. Issues covered will include: morality and 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. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.
COURSE DESCRIPTIONS

HRTM 105 Restaurant Operations ............................... 3 credits
Open to the Public. 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
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 in: safety and security, 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 205 Managing the Restaurant Operation .................. 3 credits
Prerequisite: HRTM 105. 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.

HRTM 209 Advanced Principles of Meeting, Convention, and Special Event Management ................................. 3 credits
Prerequisite: HRTM 108. 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: CAHM majors only. This course offers student learning experiences involving the running of a full-service conference center operation, using the Center for Meeting and Learning as the laboratory. 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
This course is an introduction to the hotel industry. General principles of hotel management including the basic working knowledge of hotel departments will be covered. 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.

HRTM 260 Hospitality Human Resources and Supervision .... 3 credits
Prerequisite: CAHM majors only. 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 only, HRTM 105, HRTM 106, CA 200, Honors - Hospitality Management

For information, contact the Culinary Arts and Hospitality Management Department, Bldg. 19/Fm. 202, 541.463.3503.

HRTM 100 Introduction to Culinary and Hospitality .......... 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 career opportunities available, and the training and skills necessary to achieve a successful career. Open to the public.

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.

Hospitality Management

For information, contact the Culinary Arts and Hospitality Management Department, Bldg. 19/Fm. 202, 541.463.3503.

PHL 221_H Critical Thinking-Honors ............................ 4 credits
This is an honors option available to students prepared to complete honors-level coursework. Honors options delve deeper into course topics and require a high level of student motivation; the pace may be faster than non-honors courses. WR 121-H requires a score of at least 96 on the sentence-skills placement test recommended. Contact the instructor and visit lanec.edu/honors for more information. This course is aimed at developing practical reasoning skills. Students will learn to analyze and evaluate arguments, detect fallacies, distinguish science from pseudo-science, recognize media bias, and better understand methods of deception employed by advertisers, political organizations and others. A central goal of this course is to develop an attitude of fair-mindedness and intellectual honesty while learning to avoid the pitfalls of defensiveness and rationalization. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

HRTM 265 Hospitality Financials 1 ............................... 3 credits
Open to the Public. This course is designed to provide 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
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 in: safety and security, 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 205 Managing the Restaurant Operation .................. 3 credits
Prerequisite: HRTM 105. 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.

HRTM 209 Advanced Principles of Meeting, Convention, and Special Event Management ................................. 3 credits
Prerequisite: HRTM 108. 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: CAHM majors only. This course offers student learning experiences involving the running of a full-service conference center operation, using the Center for Meeting and Learning as the laboratory. 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
This course is an introduction to the hotel industry. General principles of hotel management including the basic working knowledge of hotel departments will be covered. 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.

HRTM 260 Hospitality Human Resources and Supervision .... 3 credits
Prerequisite: CAHM majors only. 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 only, HRTM 105, HRTM 106, CA 200, Honors - Hospitality Management

For information, contact the Culinary Arts and Hospitality Management Department, Bldg. 19/Fm. 202, 541.463.3503.

HRTM 100 Introduction to Culinary and Hospitality .......... 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 career opportunities available, and the training and skills necessary to achieve a successful career. Open to the public.

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.
COURSE DESCRIPTIONS

Human Relations

For information, contact the Counseling Department, Bldg. 1/Rm. 103, 541.463.5299.

CG 144 Introduction to Assertive Behavior ......................... 1-3 credits
Assertiveness skills are taught in a two-stage process, first, defining assertive behavior, and second, learning how to behave assertively. Training will focus on areas of work and school settings, social/familial situations, and consumer situations. Includes deciding when to be assertive.

CG 145 Coping Skills for Stress and Depression .................... 1-3 credits
This course presents the theory and practice of managing stress and depression. Topics include recognizing and modifying causes of and responses to stress. The symptoms, causes, forms of, and treatments for depression are reviewed. The topic of stress will be covered in more detail than depression.

CG 203 Human Relations at Work ...................................... 1-3 credits
This course presents the interpersonal ‘people skills’ that are important in the modern workplace. Topics are varied. Focus includes awareness of individual work styles and how to work effectively with people with different styles in a diverse workplace. May be offered online.

CG 212 Dreiukarian Principles of Child Guidance 2 .................. 1-3 credits
Students engage in specialized study after completing Principles of Child Guidance. Learn in-depth ways to facilitate positive relationships with adults and children. Students engage in weekly reading, discussions, and experiences.

CG 213 Improving Parent Child Relations ............................. 3 credits
View real life in-home parent-child interactions with a focus on building credibility as a parent, encouragement, effective communication, and stimulating children’s healthy development. Typical parent-child problems are illustrated in a variety of family types and children. May be offered online.

CPSY 195 Introduction to Addictive Behavior ....................... 3 credits
This course is designed for students to learn about the sources and prevalence 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. The content of the class focuses on working with individuals, as well as communities, to promote health and access to medical services. Students will learn how to help individuals, and communities, prevent and better manage common chronic diseases. Students will learn about social health indicators, outreach, and working as part of a multi-disciplinary team.

HRTM 275 Hospitality Financials 2 .................................... 3 credits
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 ........................ 1-7 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.

HRTM 286 Bar and Beverage Management ................................ 3 credits
Open to the Public. This course is an introduction to the fundamental areas of beverage operations. Includes planning of the bar, bar staffing and training, legal regulations, standardized recipes, drink costing and pricing, and beverage production methods and mixology. Other topics will be included.

HRTM 290 Hospitality Leadership ........................................ 3 credits
Co-Prerequisite: HRTM 265. This course is the hospitality management capstone for second-year students. The course will explore the leadership qualities of successful operators in the hospitality industry.

HRTM 292 Dining Room and Kitchen Lab ................................ 2 credits
Prerequisite: CA 158. Students will learn food preparation skills, food theory, management responsibilities, and a progressive attitude toward food preparation and service. Students will be exposed to all aspects of restaurant work by rotating through a variety of different job positions.

HRTM 293 Bar and Beverage Management ................................ 3 credits
This course provides the student with the knowledge and skills to manage a beverage operation. Topics include beverage production methods and mixology, for the hospitality industry.

HRTM 294 Kitchen Management ......................................... 3 credits
This course provides the student with the knowledge and skills to manage a kitchen operation. Topics include purchasing, food control, and safety and sanitation practices.

HRTM 295 Hospitality Operations ........................................ 3 credits
This course is designed to introduce students to the sources and prevalence 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. The content of the class focuses on working with individuals, as well as communities, to promote health and access to medical services. Students will learn how to help individuals, and communities, prevent and better manage common chronic diseases. Students will learn about social health indicators, outreach, and working as part of a multi-disciplinary team.

CPSY 200 Understanding Addictive Behavior ........................... 3 credits
This course presents 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 for sharing information. 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 & drug counselors.

HS 102 Psychopharmacology .............................................. 4 credits
Students will be introduced to the behavioral, psychological, physical 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 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. It is strongly recommended that students complete this course before enrolling in CG 280HS Human Services Co-operative Education.

HS 151 Issues in Assessing and Treating the Problem Gambler .......................... 1 credits
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
This class introduces students to the sources and prevalence 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. The content of the class focuses on working with individuals, as well as communities, to promote health and access to medical services. Students will learn how to help individuals, and communities, prevent and better manage common chronic diseases. Students will learn about social health indicators, outreach, and working as part of a multi-disciplinary team.

HS 171 Community Health Worker .................................... 6 credits
This course introduces students to a new and emerging role that integrates human service activities within traditional and new health services. The content of the class focuses on working with individuals, as well as communities, to promote health and access to medical services. Students will learn how to help individuals, and communities, prevent and better manage common chronic diseases. Students will learn about social health indicators, outreach, and working as part of a multi-disciplinary team.

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 205 Youth Substance Abuse** ................................................. 3 credits
This course will present a basic overview of concepts to facilitate an understanding of substance abusing adolescents and their families. The student will develop a working knowledge of adolescent development, as well as socio-economic, educational, gender, familial, societal and cultural factors as related to substance abuse. Interventions will be presented from a prevention perspective. The impact of culture and diversity considerations are included throughout the course. Instructional methods will include lecture, discussion, films, small group activities, and guest speakers.

**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 introduce human service and correctional personnel to crisis intervention and prevention that emphasizes crisis counseling and psychological intervention methods for preventing or controlling crisis and reactive behavior before it escalates. Students will be taught effective non-violent intervention for a wide range of crisis situations. Content of this course will provide students with hands-on practical approaches to crisis management.

**HS 220 Prevention 1: Preventing Substance Abuse and Other Social Problems** ......................................................... 3 credits
Students will be introduced to prevention philosophy and program interventions aimed at addressing social problems and reinforcing healthy behavior 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 health and 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 to live with, and manage, losses. Students will explore the emotional, cultural, developmental, spiritual and behavioral factors that influence 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 individuals make behavioral changes by encouraging them to explore and resolve their ambivalence about engaging in a change process. Students will learn the theoretical basis of this evidenced 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 course 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 265 Casework Interviewing** .......................................... 3 credits
Prerequisite: HS 155. Students will learn the theoretical knowledge and skills needed to work effectively as case managers with clients in human service organizations. Students will be introduced to solution-focused, and client directed interviewing skills that emphasize strengths and goals.

**HS 266 Case Management** .................................................. 3 credits
Prerequisite: HS 155 or HS265. Students will be introduced to the theory and practice of case management. Methods of delivering accessible, integrated, coordinated, and accountable case 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. This class is accepted by ACCBO to meet certification requirements for alcohol and drug counselors.

**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 role 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?” This course is intended to provide the necessary tools for students to think critically when exploring the arts and the other humanities. Online mediums are used to enrich and enhance the topics covered. Offered online only.

**Internet - See Business and Computers: Introduction/ Information Systems/Computer Science**

**Internships/Work Experiences - See Cooperative Education**
CW 201 Chinuk Wawa ................................................................. 4 credits
Prerequisite: AIL 103 or CW 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 and discuss the culture and history of the Grand Ronde and other Chinuk Wawa speaking 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.

CW 202 Chinuk Wawa ................................................................. 4 credits
Prerequisite: AIL 201 or CW 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 and other Chinuk Wawa speaking people; (2) converse in a variety of settings; (3) 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.

CW 203 Chinuk Wawa ................................................................. 4 credits
Prerequisite: AIL 202 or CW 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 and other Chinuk Wawa speaking people; (2) converse in a variety of settings; (3) 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.

FL 280W Co-op Ed: International Work Experience ................................................................. 1-12 credits
Prerequisite: Instructor approval. This is a structured program for international work experience through LCC and IE3 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 ie3global.org.

FR 101 First-Year French ................................................................. 5 credits
First course 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. Second course of a three-term sequence 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 continue to 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. Third course 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. Computer lab work required.

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 216 Newswriting 1 ................................................................. 3 credits
This study and practice of newsgathering 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
A continuation of Photojournalism with the continued discussion of content and ethics of the field. Students learn how to create editors, 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.

Landscaping - See Construction

Language Studies

For information, contact the Language, Literature and Communication Division, Center Bldg./Rm. 457, 541.463.5419.

CW 101 Chinuk Wawa ................................................................. 4 credits
This course is the first 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) learn 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, writing, reading, and listening of Chinuk Wawa and learning about the cultures of the people who spoke and still speak the language.

CW 102 Chinuk Wawa ................................................................. 4 credits
Prerequisite: AIL101 or CW 101 or consent of instructor. This course is the first course of a three-term sequence designed for students with no prior language study. Continuation of beginning Chinuk Wawa and learning about the cultures of the people who spoke and still speak the language.
FR 107 Beginning French Conversation 1 credits
Prerequisite: FR 101 Corequisite: FR 102 This course offers conversational practice in French at the beginning level of vocabulary and grammar structures that students have already studied or are currently learning. Offered P/NP, winter term only.

FR 188 Study Abroad: French Language and Culture in Normandy 6 credits
Prerequisite: FR 101 or equivalent. This course is a study abroad experience encompassing intensive language study with an emphasis on oral communication, and French history and culture in the Normandy and Paris regions. The course is designed to provide students with language tools to communicate successfully in a full immersion learning environment, to encourage them to reflect on cultural values and develop an awareness and sensitivity to cultural differences, and to inspire them to engage in further French language studies.

FR 201 Second-Year French 5 credits
Prerequisite: FR 103 or FR 151 with a passing grade of C- or above, or equivalent. First course 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 course 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 above, or equivalent. Third course 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 credits
Prerequisite: FR 201 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 and 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, exchange ideas, and 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 and 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, 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 focus on improving their oral communication skills (listening comprehension, speaking, and intercultural competence). 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 288 Study Abroad: French Language and Culture in Normandy 6 credits
Prerequisite: FR 101 This course is a study abroad experience encompassing intensive language study with an emphasis on oral communication, and French history and culture in the Normandy and Paris regions. The course is designed to provide students with language tools to communicate successfully in a full immersion learning environment, to encourage them to reflect on cultural values and develop an awareness and sensitivity to cultural differences, and to inspire them to engage in further French language studies.

SPAN 101 Spanish, First-Year 5 credits
Prerequisite: SPAN 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. These courses must be taken in sequence. The sequence emphasizes the development of the skills of listening, speaking, reading, writing, and culture. 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. The text for this course includes an online workbook component. Course content is conducted entirely in Spanish.

SPAN 102 Spanish, First-Year 5 credits
Prerequisite: SPAN 101 with a passing grade of C- or above, or placement by instructor. SPAN 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. These courses 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. The text for this course includes an online workbook component. Course content is conducted entirely in Spanish.

SPAN 103 Spanish, First-Year 5 credits
Prerequisite: SPAN 102 with a passing grade of C- or above, 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. The text for this course includes an online workbook component. Course content is conducted entirely in Spanish.

SPAN 201 Spanish, Second-Year 5 credits
Prerequisite: Credit level SPAN 103 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 level transfer courses at the intermediate (second year) level. These courses must be taken in sequence. SPAN 201-202-203 builds on Spanish language skills acquired through the first year sequence (SPAN 101-102-103) and expands upon them to develop student skills that transfer to a more advanced 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. Course content is conducted entirely in Spanish.

SPAN 202 Spanish, Second-Year 5 credits
Prerequisite: Credit level SPAN 201 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 level transfer courses at the intermediate (second year) level. These courses must be taken in sequence. SPAN 202 continues the development of and expands upon the five language skills practiced in SPAN 201 (see course description) through emphasis on reading, writing, listening, and speaking of Spanish, and on learning about Spanish-speaking cultures. Tests are administered outside of class hours.

SPAN 203 Spanish, Second-Year 5 credits
Prerequisite: Credit level SPAN 202 minimum grade of C-, or an equivalent or placement by instructor. Spanish 203 is the third course of a three-term sequence (SPAN 201-202-203) designed to provide one full year of college level transfer courses at the advanced level. These courses must be taken in sequence. SPAN 201-202-203 builds on Spanish language skills acquired through the first year sequence (SPAN 101-102-103) and expands upon them to develop student skills that transfer to an advanced 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. Course content is conducted entirely in Spanish.
of class hours. The text for this course includes an online workbook component. Course content is conducted entirely in Spanish.

SPAN 203 Spanish, Second-Year ........................................ 5 credits
Prerequisite: Credit level SPAN 202 minimum grade of C-, or an equivalent, or placement by instructor. SPAN 203 is the third course of a four-year sequence (SPAN 201-202-203) designed to provide one full year of college level transfer courses at the intermediate (second year) level. These courses must be taken in sequence. SPAN 203 continues the development of and expands upon the five language skills practiced through emphasis on reading, writing, listening, and speaking. Spanish and long-term learning about Spanish-speaking cultures. Tests are administered by instructors. The text for this course includes an online workbook component. Course content is conducted entirely in Spanish.

SPAN 211B Conversational Spanish Intermediate.......... 3 credits
Prerequisite: Credit Level SPAN 103 or equivalent with min. grade of C- or placement by instructor. May be taken concurrently with any 200 level Spanish course. Spanish 211B is an Intermediate Spanish college level course in oral communication. The student has the 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. Oral presentations, short written essays, tests, and active participation in class activities are used to determine the student's final grade in the course. Course content is conducted entirely in Spanish.

SPAN 212B Conversational Spanish Intermediate.......... 3 credits
Prerequisite: Credit Level SPAN 103 or equivalent with min. grade of C- or placement by instructor. May be taken concurrently with any 200 level Spanish course. Spanish 212B is an Intermediate Spanish college level course in oral communication. The student has the 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. Oral presentations, short written essays, tests, and active participation in class activities are used to determine the student's final grade in the course. Course content is conducted entirely in Spanish.

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 they will correctly spell, define, pronounce, and apply 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 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 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, BT 108, 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, layout, formatting, internet research, and writing. Students will present 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.

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. Children's Literature is a wide-ranging introductory course, including a history of both British and American literature for children and a continuing discussion of the ways our culture and history have defined and created what children may or may not be and what they may or may not read, enjoy or understand. The class reads a variety of material including fairy tales, picture books, and young adult novels. Students will develop criteria for the selection and evaluation of literature for children at different developmental stages. Students will explore current debates in and around children's literature, scholarship, classroom use, and publishing. This course features multi-cultural materials and touches on a variety of media, including film, cartoons, television, and print. Though many students who take the course are, or will be, working with children, the course also adds an advanced prerequisite from a literary perspective, discussing the texts from theoretical as well as a pedagogical framework. A major aim of the class is to introduce students to recent and emerging authors to broaden familiarity with current material available to young people.

Library/Information Research

For information, contact the Language, Literature and Communication Division, Center Blvd./2nd Floor, 541.463.5419.

LIB 127 Research Skills and Information Literacy ................ 1 credits
Students will develop critical thinking skills needed to locate, evaluate and cite information relevant to specific research needs. The course develops research skills and confidence that contribute to success in other college courses and life experiences. May be offered online.

Literature

For information, contact the Language, Literature and Communication Division, Center Blvd./2nd Floor, 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. Children's Literature is a wide-ranging introductory course, including a history of both British and American literature for children and a continuing discussion of the ways our culture and history have defined and created what children may or may not be and what they may or may not read, enjoy or understand. The class reads a variety of material including fairy tales, picture books, and young adult novels. Students will develop criteria for the selection and evaluation of literature for children at different developmental stages. Students will explore current debates in and around children's literature, scholarship, classroom use, and publishing. This course features multi-cultural materials and touches on a variety of media, including film, cartoons, television, and print. Though many students who take the course are, or will be, working with children, the course also adds an advanced prerequisite from a literary perspective, discussing the texts from theoretical as well as a pedagogical framework. A major aim 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 critical analysis, basic literary terminology, and concepts which will enhance appreciation of fiction. The course may include the short story and the novel or novella. May be offered online.

ENG 105 Introduction to Literature: Drama-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. See lanec.edu/honors for information. This course is a reading, writing, and discussion course that features critical analysis and appreciation of a wide variety of world plays beginning with the classical Greek period and ending with works of today.

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 across 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 eras.

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) 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 winter term comes from the 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 detectives, as well as female detectives, and Native American detectives, and will be read from the viewpoint of different literary theories, including historical and social viewpoints 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 194 Literature of Comedy ............................................ 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 203 Shakespeare ........................................... 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. 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 9-5 plays and at least one sonnet each term. Instructors might divide the works 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) are 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 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) are 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 215 Latino/a 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. This is an introductory course to Latino/a literature that will examine some of the major issues that have influenced its development beginning with the contact between European and pre-Columbian cultures. Students will also read some of the major voices in Latin American literature in order to examine how their work anticipates many of the issues facing contemporary Latino/a writers and literatures.

ENG 217 Reading, Writing and Digital Culture ........................................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) strongly recommended for success. 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. It includes the theoretical and ethical considerations and other developments in the field.

ENG 218 Literature of the Islamic World ........................................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) 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 222 Literature and Gender ........................................... 4 credits
College-level reading and writing skills (a passing grade in WR 115 or placement into WR 121) strongly recommended for success in this course. This course will examine representations and/or investigations of gender in literature. While some literature chosen for the course may thematically focus readers on the gender roles assigned to people at different points in time in relation to a given culture, other literature will explore the ways in which gender is a socially constructed identity. Critical thinking will play a role as students consider concepts such as social norm, gender construction, subject position, self-other paradigms, and ideology. Feminist models of literary criticism may be considered.

ENG 223 Native 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. This course provides an introduction to the oral traditional and formal written literature of Native American cultures through a wide variety of texts from different countries, tribes, regions, and individuals. Students will examine the world view expressed in the literature, the major thematic currents of oral and written Native American literature, the characteristics of Native American forms and traditions, and the characteristics it shares.

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. People have always explained themselves and their world according to how they define and perceive their relationship with nature. The Nature Literature course will examine how literature reflects mythological, theological, philosophical, and scientific views toward nature. Readings will include fiction, poems, non-fiction, and personal essays that project a variety of attitudes toward nature. Students will keep regular journals in response to their readings and experiences, and will also do their own pieces of "nature writing."
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 of 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 explore the African American experience: Drama, Poetry, and Film Studies. This course is designed to allow students to utilize textual materials, dramatic presentations, and narrative to chart, research, examine, and evaluate the interconnectedness of black plays, poetry, and film representations. Students will have at their disposal a variety of resources to aid them in understanding the themes, techniques, and critical theories underlying the foundations that black playwrights, poets, film historians, and filmmakers/actors have developed and refined over the years. This course will guide students to a clearer yet more comprehensive understanding of the collaborative aspect of these artistic expressions in the African American world and their continuing influence on the larger American experience in Arts and Letters.

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 focus primarily on the poetry and cinematic theory in an analysis of the construction of race, gender, ethnicity, nation, and economy as issues of gender, race/ethnicity, class, sexuality, and nationality as they relate to horror. Students will be asked to learn a cinematic vocabulary and develop analytic skills so they can look at films critically through aesthetic, historic, and theoretical lenses. 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 ................................................................. 4 credits

Prerequisite: a passing score (C-/P or better) in WR 115 or its equivalent, placement into WR 121 (a score of 76RD and 96WR on the placement test), 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-era 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 in class for close analysis of aural and visual elements.

ENG 273 Film Genre: Film Noir ................................................................. 4 credits

Prerequisite: Instructor permission or a passing grade (C-/P) in any of the following (or an equivalent course): ENG 195, ENG 196, FA 250, FA 263, FA 264, FA 265, FA 260, VP 151, VP 152. This course will focus on film noir, a type of film featuring hard-boiled detective narratives, dark urban landscapes, and mysterious, labyrinthine, noirish, and preposterous melodramas, 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 film noir and competing definitions of the genre. The course will focus on the historical and social context of films 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.

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 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 global context historically to the present day. The course will include an introduction to feminist literary theory and will introduce students to a variety of literary genres and styles, including the novel, the short story, the essay, and the modernist novel. This course is designed to allow students to utilize textual materials, dramatic presentations, and narrative to chart, research, examine, and evaluate the interconnectedness of black plays, poetry, and film representations. Students will have at their disposal a variety of resources to aid them in understanding the themes, techniques, and critical theories underlying the foundations that black playwrights, poets, film historians, and filmmakers/actors have developed and refined over the years. This course will guide students to a clearer yet more comprehensive understanding of the collaborative aspect of these artistic expressions in the African American world and their continuing influence on the larger American experience in Arts and Letters.

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. This course explores science fiction, fantasy and speculative futures through literary and popular fiction, film and guest authors. Discussions of content, style, and conventions of the genre will be central to the course.

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 poetics of Bob Dylan’s work. Textual analysis will lead to understanding of syntax, imagery, narrative tactics, and other poetic elements. Students will gain familiarity with the range of Dylan’s poetic genres. As with any literature course, we will examine how meaning is produced through words and sound. Dylan’s musical and literary sources, and his influence in our culture, will also be explored.

ENG 271 Film Genre: Horror ................................................................. 4 credits

Prerequisite: Instructor permission or a passing grade (C-/P) in any of the following (or an equivalent course): ENG 195, ENG 196, FA 250, FA 263, FA 264, FA 265, FA 260, VP 151, VP 152. Horror, will examine the history of the horror film from the silent era to the present, focusing primarily 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 horror. Students will be asked to learn a cinematic vocabulary and develop analytic skills so they can look at films critically through aesthetic, historic, and theoretical lenses. 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 ................................................................. 4 credits

Prerequisite: a passing score (C-/P or better) in WR 115 or its equivalent, placement into WR 121 (a score of 76RD and 96WR on the placement test), 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-era 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 in class for close analysis of aural and visual elements.

ENG 273 Film Genre: Film Noir ................................................................. 4 credits

Prerequisite: Instructor permission or a passing grade (C-/P) in any of the following (or an equivalent course): ENG 195, ENG 196, FA 250, FA 263, FA 264, FA 265, FA 260, VP 151, VP 152. This course will focus on film noir, a type of film featuring hard-boiled detective narratives, dark urban landscapes, and mysterious, labyrinthine, noirish, and preposterous melodramas, 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 film noir and competing definitions of the genre. The course will focus on the historical and social context of films 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 264 Women Make Movies ................................................................. 4 credits

Prerequisite: a passing score (C-/P or better) in WR 115 or its equivalent, placement into WR 121 (a score of 76RD and 96WR on the placement test), or instructor permission. 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, 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 ................................................................. 4 credits

Prerequisite: a passing score (C-/P or better) in WR 115 or its equivalent, placement into WR 115 (a score of 76RD and 76WR on the placement test), or instructor permission. This course gives students an introduction to African Americans’ role in the history of Hollywood filmmaking, and the social, educational, and political climates that construe the cultural phenomenon of movie making. 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 276 Gender, Race, and Class in U.S. Cinema ................................................................. 4 credits

Suggested prerequisite: placement into WR 115 (college-level reading and writing skills). FA 276 is a cinema course focused on the exploration of representations of gender, race, and class in U.S. Cinema. The course explores the impact of Classical Hollywood Style, the predominate form of storytelling in U.S. Cinema during much of the 20th Century, as it relates to both the creation of cinematic style and the presentation of race/ethnicity, gender, sexuality, and class. Students will be introduced to a cinematic language, the history of cinematic representation, and theoretical discussions of meaning-making, reception, production, and distribution of cinematic texts. CULMINATING projects will involve the application of cinematic theory in an analysis of the construction of race, gender,
literature - manufacturing

sexuality, and class in particular cinematic texts. Weekly campus screenings are required, and clips of films are used in class for close analysis and are an integral part of the course.

Machine Shop, Machine Tools - See Manufacturing
Management - See Business and Hospitality Management

Manufacturing

COURSE DESCRIPTIONS

MFG 101 Safety and Basic Shop Practice - 3 credits
Prerequisite: MTH 020 or assessment. This fundamental course introduces students to safe and efficient shop practices necessary to be successful in a manufacturing environment. Concepts are reinforced through a series of lectures and online activities. Skills are reinforced through demonstrations introducing basic shop equipment.

MFG 102 Shop Measurement and Coordinate System - 3 credits
Prerequisite/Co-requisite: MFG 101. This course teaches basic measurement, print reading and concepts necessary to be successful in a manufacturing environment. Topics are reinforced through demonstrations introducing basic shop equipment.

MFG 103 Metal Cutting Basics - 3 credits
Prerequisite/Co-requisite: MFG 102. This course teaches the basics of metal cutting. Topics covered include: Shop Metallurgy, tool geometry, order of operations and machining strategies.

MFG 201 CNC Mill - 3 credits
Prerequisite: Must have completed 24 credits of MFG 197 or instructor consent. Development of skills required to program, operate, and produce parts on the computer numerical control (CNC) 3-axis mill. Topics include: history of CNC, computer to machine interface including feedback and different control systems, 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, setup 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
Prerequisite: Must have completed 24 credits of MFG 197 or instructor consent. 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 different control systems, 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, setup 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 203 Advanced Manufacturing Processes - 6 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 Computer 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, environment setting, CAM drawings, machining work plans, defining 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.

MFG 241 Solid Modeling 1 ............................................. 3 credits
Prerequisite: MFG 210 Solid Modeling 1 teaches the precise construction of parts in 3 dimensions. In manufacturing, 3D models can be used both for design and to create manufacturing instructions and processes. This course introduces solid modeling using Solidworks, the most popular solid modeling software for machining.

MFG 242 Solid Modeling 2 ............................................. 3 credits
Prerequisite: MFG 241 This course continues solid modeling instruction with Solidworks including more advanced topics such as assemblies and basic engineering analysis.

MFG 243 CAM 1 ............................................................. 6 credits
Prerequisite: CNC 003 Computer Aided Manufacturing (CAM) uses computer models to automatically generate code for the control of CNC mills and lathes. This course teaches CAM for 2D mills and lathes using Mastercam, the most popular CAM software used in the manufacturing industry.

MFG 244 CAM 2 ............................................................. 6 credits
Prerequisite: MFG 243 This course continues Computer Aided Manufacturing (CAM) instruction with Mastercam covering more advanced topics such as 3D mill and 4 axis lathe as well as machine modeling for collision detection.

MFG 254 Manufacturing 4 ............................................. 6 credits
Prerequisite: MFG 153 This course consists of a series of projects demonstrating and strengthening manual shop skills. Students are provided with drawings which they will use to create a series of projects of increasing complexity.

MFG 255 Manufacturing 5 ............................................. 6 credits
Prerequisite: MFG 254 This course consists of a series of projects demonstrating and strengthening manual shop skills. Students are provided with drawings and instructions which they will use to create a series of projects of increasing complexity. In addition this course introduces manual machine maintenance and repair.

Mathematics

For information, contact the Mathematics Division, Bldg. 16/Rm. 166, 541.463.5392.

MTH 010 Whole Numbers, Fractions, Decimals ......................... 3 credits
Prerequisite: Placement Test. The LCC mathematics placement test is used by the instructor. Students will review whole number skills and learn to compute with fractions and decimals. Concepts, problem solving, and applications will be integrated into the curriculum to increase students' abilities and to extend their understanding of basic math principles in preparation for higher level math courses. Effective math study strategies and math anxiety issues will be discussed to increase students' confidence in their abilities to succeed in math classes and to use math in daily life. MTH010 is intended for students who need to strengthen their basic math skills before moving on to MTH020. May be offered online.

MTH 020 Math Renewal ................................................. 4 credits
Within the past four terms completed MTH 010, MTH 010A, MTH 010T or equivalent course with a grade of “C-” or better or passed 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 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. This review is followed by an introduction to ratios, proportions, per cent, measurement, and basic geometry in a problem-solving context, with the earlier review skills integrated throughout. Some applications for technical careers will be incorporated for students in professional technical programs. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart. This course is available in a self-paced format (see heading Mathematics: Self-paced format). May be offered online.

MTH 025 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 pass a placement test through the Testing Office. Basic skills in fractions, decimals, percents and ratios will be assumed. MTH 025 is a course in the application of basic mathematics to everyday situations. Topics include applications involving budget and retirement, simple and compound interest, mortgage and charge options, household and garden, health formulas, food preparation, measurement systems, markup and discounts. This course will include skill maintenance and explorations, and may involve group work and projects.

MTH 025C 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 pass a placement test through the Testing Office. Basic skills in fractions, decimals, percents and ratios will be assumed. MTH 025C is a course in the application of basic mathematics to everyday situations in culinary practice. Topics include applications involving budget, food preparation, measurement systems, yield percents, recipe conversions, nutritional labels, payroll, and discounts. The course will focus on group work, skill maintenance, investigations.

MTH 052 Math for Health and Physical Sciences ......................... 4 credits
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 pre-algebra level 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.

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 pass 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, linear inequalities, 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. May be offered online.

MTH 060B Beginning Algebra: Part B ................................. 1 credits
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 of calculators. Scientific Calculator is required. Please refer to the Calculator Recommendation Chart on lanecc.edu/math. This is Part B of a four part, individual credit sequence of courses that when completed are equivalent to MTH 060.

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 pass 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, exponents, polynomials, factoring, quadratic equations, and rational expressions.

MTH 070 Introductory Algebra .......................................... 5 credits
Prerequisite: Within the past four terms completed MTH 060 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 for Intermediate Algebra (MTH 095). Topics include a selective review of arithmetic, tables and graphs, signed numbers, problem solving, linear equations, linear inequalities, ratio and proportion, unit analysis, systems of linear equations, polynomials, factoring, quadratic equations, rational expressions, and exponents.

MTH 075 Applied Algebra for Technicians ................................. 4 credits
Prerequisite: Within the past four terms completed MTH 020 with
### MTH 082 Math for Network Operations

**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. This course satisfies math requirements for students in the Computer Networking program. Topics include understanding different number bases, binary math and logical operators, hexadecimal color representations, basic internet protocol math, hashing and checksum algorithms, and basic cryptography.

**Credits:** 4

### MTH 085 Applied Geometry for Technicians

**Prerequisite:** Within the past four terms completed MTH 075 with a grade of “C-” or better or passed a placement test through the Testing Office. This course satisfies math requirements for students in the Computer Networking program. Topics include understanding different number bases, binary math and logical operators, hexadecimal color representations, basic internet protocol math, hashing and checksum algorithms, and basic cryptography.

**Credits:** 4

### MTH 095 Intermediate Algebra

**Prerequisite:** Within the past four terms completed MTH 065, MTH 070 or equivalent course with a grade of “C-” or better or passed a placement test through the Testing Office. Topics include equations, function notation, polynomials, coordinate graphing, rational equations, radical equations, exponents, exponential functions, logarithmic functions and their inverses. Other topics include an introduction to sequences and non-linear systems of equations. In accordance with the General Recommendation for Graduates, the course will build on algebraic techniques with a focus on problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.

**Credits:** 5

### MTH 111 College Algebra

**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 095 is strongly recommended. College Algebra is the study of basic functions and their applications. This includes polynomial, rational, exponential, and logarithmic functions and their inverses. Other topics include an introduction to sequences and non-linear systems of equations. In accordance with the General Recommendation for Graduates, the course will build on algebraic techniques with a focus on problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.

**Credits:** 5

### MTH 121 Fundamentals of Elementary Mathematics 1

**Prerequisite:** MTH 211 with a grade of “C-” or better completed within the past four terms. 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, patterns, sequence AM/NU, introduction to logic, number systems, number bases, arithmetic operations with whole numbers and integers, and number theory.

**Credits:** 4

### MTH 212 Fundamentals of Elementary Mathematics 2

**Prerequisite:** MTH 211 with a grade of “C-” or better completed within the past four terms. 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, patterns, sequence AM/NU, introduction to logic, number systems, number bases, arithmetic operations with whole numbers and integers, and number theory.

**Credits:** 4

### MTH 213 Fundamentals of Elementary Mathematics 3

**Prerequisite:** MTH 211 or MTH 212 with a grade of “C-” or better completed within the past four terms. 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, sequence AM/NU, introduction to logic, number systems, number bases, arithmetic operations with whole numbers and integers, and number theory.

**Credits:** 4

### MTH 231 Discrete Mathematics 1

**Prerequisite:** Within the past four terms completed MTH 112 or equivalent course with a grade of “C-” or better or pass a placement test through the Testing Office. First course in a two-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 formal logic, methods of 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 lanec.edu/math.

**Credits:** 4

### MTH 232 Discrete Mathematics 2

**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
Notes: Within the past four terms students must either have passed the prerequisite course with a "C-" or better or passed a placement test through the Testing Office in order to register for Math classes.
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 completed within the past four terms. Prerequisite: MTH 105, MTH 111, or equivalent courses 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. Some review of algebraic techniques. Major emphasis is on limits; continuity; derivatives with applications; and exponential and logarithmic functions, their derivatives, and applications. 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.

MTH 243 Introduction to Probability and Statistics ................. 4 credits
Prerequisite: Within the past four terms completed either MTH 105, MTH 111, or equivalent courses with a grade of "C-" or better or passed a placement test through the Testing Office. 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.

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 placement tests 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 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 indefinite 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. 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 232 or 252 with a grade of "C-" or better or passed a placement test through the Testing Office. This course provides a foundation of linear algebra computation, terminology and theory. Topics include systems of linear equations, vector spaces, matrices, determinants, theory of linear transformations, dot and cross products, eigenvalues, eigenvectors, and complex numbers. 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: MTH 252. This is the fourth term of a six-term sequence. Major emphasis is on multiple integration, vector fields, and applications; and exponential and logarithmic functions, their derivatives and applications. 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, random variables, expectation, discrete and continuous probability theory, common probability distributions, sampling distributions, estimation, confidence intervals, hypothesis testing, control charts, regression analysis, and experimental design.

MTH 280 Co-op Ed: Mathematics ...................................... 3-12 credits
This internship course offers a work experience as a math tutor on a Lane campus or in an area K-12 school. Students devote a prearranged number of hours each week to classroom observation and possible assistance to the instructor, as well as direct student contact in a one-to-one or group situation.

Mechanics - See Automotive, Aviation, Diesel

Media Arts

For information about classes with course numbers that begin with:

FA 263-265 and ENG - Contact the Language, Literature and Communication Division, Center Bldg., Rm. 451, 541.463.5419

ART, AUD, FA, MDP, MUL, VP - Contact the Art and Applied Design Department, Bldg. 11/Rm. 101, 541.463.5409

ART 151A Media Graphics ................................................. 3 credits
Introduces and provides a foundation in the essential skills needed to use Flash software. Flash is used to create all kinds of content such as website front-ends, interactive games, animated cartoons, movie trailers, and PDA interfaces. At the end of the course you will understand the components of Flash movie fit together, have used all the key tools, and have integrated all of your learning in a series of detailed creative exercises.

ART 288 Introduction to Web Design .................................. 3 credits
Prerequisite: 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 Distance Learning, traditional classroom instruction, or as a hybrid course.

ART 290 Design Concepts for the Web ................................. 3 credits
Prerequisite: ART 216 or MUL 212, and ART 289. An intermediate study of web site design with an emphasis on informational
architectures including strategy, planning, usability, and design of integrated web sites. May be offered as traditional classroom instruction, fully online, or as a hybrid course.

AUD 120 Audio Production .............................................................. 4 credits
Basic theories and practices of audio production for video and multimedia. Includes the use of microphones, mini-disc recorders, mixing consoles, and digital audio workstations for a variety of sound collection and processing applications.

ENG 195 International Film Histories .............................................. 4 credits
Suggested prerequisite: placement into WR 115 or above (college-level reading and writing skills). This is the first course in a three-part survey of film history: aesthetic, economic, technological, and cultural. ENG 195 explores the evolution of film language from the silent era to WWII, and the various cinematic and artistic movements, as well as the economic context that led to the development of the US Studio System and Classical Hollywood Style. Students will be introduced to the basic elements of film language and tasked with using this vocabulary to analyze cinematic texts. The primary goals of the course are twofold: to help students recognize and identify particular historical approaches to understanding film; to help students develop a sufficient cinematic vocabulary to identify and analyze cinematic style in and across film texts and within and between film movements. Weekly campus screenings are required, and clips of films are used in class for close analysis and are an integral part of the course.

ENG 196 International Film Histories .............................................. 4 credits
Suggested prerequisite: placement into WR 115 or above (college-level reading and writing skills). This is the second course in a three-part survey of film history: aesthetic, economic, technological, and cultural. ENG 196 explores the maturation and decline of the studio system in post-war U.S. as well as key international film movements that were informed by, but also challenged, the Hollywood model. Students will be introduced to the basic visual and aural elements of film language and tasked with using this vocabulary to analyze cinematic texts. The primary goals of the survey are twofold: to help students recognize and identify particular historical approaches to understanding film; to enable students to apply a cinematic vocabulary to identify and analyze cinematic style in and across film texts and within and between film movements. Weekly campus screenings are required, and clips of films are used in class for close analysis and are an integral part of the course.

ENG 197 International Film Histories .............................................. 4 credits
Suggested prerequisite: placement into WR 115 or above (college-level reading and writing skills). This is the third course in a three-part survey of film history (aesthetic, economic, technological, and cultural). ENG 197 focuses on contemporary world cinema beginning with various counter-cinemas of the 1960s, “new cinemas” of the 1970s, the rise of the entertainment economy in the 1980s, and contemporary cinema as a focus on present-day digital cinemas within a global and trans-media market. Students will be introduced to the basic visual and aural elements of film language and tasked with using this vocabulary to analyze cinematic texts. The primary goals of the survey are twofold: to help students recognize and identify particular historical approaches to understanding film; to enable students to apply a cinematic vocabulary to identify and analyze cinematic style in and across film texts and within and between film movements. Weekly campus screenings are required, and clips of films are used in class for close analysis and are an integral part of the course.

FA 221 Computer Animation .......................................................... 4 credits
This course provides an overview of the historical beginnings of animation books to film. It allows students an opportunity to explore the application of animation from business presentations to entertainment. This is a project-oriented, hands-on course, which gives students an opportunity to design and produce 3D computer animation projects. The course will emphasize 2D animation tools and techniques and introduce the student to modeling and animation tools throughout.

FA 222 Computer Animation 2 ..................................................... 4 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.

FA 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 to enhance non-linear content presentation. Activities will focus primarily on completed multimedia projects and their effectiveness.

FA 250 Concepts of Visual Literacy .................................................. 3 credits
Introduces students to elemental 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.

FA 254 Fundamentals of Lighting .................................................... 3 credits
Students explore a mix of lighting techniques, tools and theory that can be applied to media production including video, photography, and production design. Students learn the fundamental properties of light, as well as practical advice, tips, and tricks for improving production values from the studio or location to the screen. Students gain an understanding of image manipulation through demonstrations, practical hands-on exercises, and design assignments.

FA 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. Students probe the deeper meaning of American movies, the hidden messages of stories, the social and psychological effects of film, the film styles, and the mutual influence of society and popular culture through encounters with the work of directors such as John Ford, Howard Hawks, and Martin Scorsese. May be offered as a telecourse.

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. It defines the stages involved in the development of multimedia projects and addresses the skills necessary to write a proposal, develop a flow chart, and storyboard a short multimedia project involving text, graphics, illustrations, animation, video, sound, links, and search mechanisms. May be offered online.

FA 264 Women Make Movies ........................................................... 4 credits
Prerequisite: a passing score (C-/P or better) in WR 115 or its equivalent, placement into WR 121 (a score of 76RD and 96WR on the placement test), or instructor permission. 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 cultural contexts 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 for close analysis of women and visual elements.

FA 265 African American Film Images .............................................. 4 credits
Prerequisite: a passing score (C-/P or better) in WR 95 or its equivalent, placement into WR 115 (a score of 76RD and 76WR on the placement test), or instructor permission. 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 movie making. 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 exams, and other relevant critical readings offer essential aspects in guiding students' understanding of the peculiar problems complicating African Americans' full, rigorous admissation and participation into the Hollywood system. Weekly campus screenings are required, and clips of films are used in class for close analysis of aural and visual elements.

FA 276 Gender, Race, and Class in U.S. Cinema .................................. 4 credits
Prerequisite: placement into WR 115 (college-level reading and writing skills). FA 276 is a cinema course focused on the exploration of representations of gender, race, and class in U.S. Cinema. The course explores the impact of Classical Hollywood Style, the predominante form of storytelling in U.S. Cinema during much of the 20th Century. It also relates to both the creation of cinematic texts and the presentation of race/ethnicity, gender, sexuality,
and class. Students will be introduced to a cinematic language, the history of cinematic representation, and theoretical discussions of meaning-making, reception, production, and distribution of cinematic texts. Culminating projects will involve the application of cinematic theory in an analysis of the construction of race, gender, sexuality, and class in particular cinematic texts. Weekly campus screenings are required, and clips of films are used in class for close analysis and are an integral part of the course.

MDP 246 Multimedia Production 1 ........................................ 4 credits Prerequisite: FA 250, VP 151, AUD 120 and MUL 210 A practicum course giving students the opportunity to apply technical knowledge and skills learned in the first year classes to actual basic production situations with an emphasis in 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 professional 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. Contact the multimedia design co-op coordinator before registering. Course may be repeated.

MUL 101 Introduction to Media Arts ..................................... 3 credits Introduction to Media Arts provides an overview of the Media Arts program as well as insight into what careers the program can lead to. Students learn about the expectations of the program and courses and what resources are available to afford them a greater chance of success in the program and the field. This course may be offered as a traditional, hybrid or online course.

MUL 103 Time-Based Tools .................................................. 4 credits A introductory course in digital time-based tools, covering foundational timeline-based software and hardware tools, skills, and theories used in video, audio, animation, interactive, live, and other time-based productions.

MUL 105 Digital Photography .............................................. 4 credits A foundational course on Digital Single-Lens Reflex (DSLR) cameras and lenses, sensors, data capture, processing, pixels, resolution, asset management, tagging, frames, depth of field, lighting, outputting, distribution, construction, image-making strategies, and emerging and experimental forms.

MUL 205 Design Studio ...................................................... 3 credits Prerequisite: MUL 222, ART 229, and ART 290 Design Studio is a class for qualified second year graphic design students. This class operates as a real design studio and takes real jobs from both the college as well as non-profit organizations from the community. Students also team-produce a 52-page magazine.

MUL 208 Motion Capture for Animation ................................. 4 credits Prerequisite: FA 221. An introduction to the motion capture process for animation. Students learn the techniques and workflow of capturing and converting live action movement into a 3D model, storyboarding for motion capture, and assembling and rendering composed scenes into completed animation sequence.

MUL 210 Multimedia Design .............................................. 3 credits Prerequisite: MUL 105 Students design and produce computer multimedia programs using digital production techniques in imaging, sound, and animation. 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: Art 216. Instruction in various aspects of digital imaging with an emphasis on both (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 methods 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 ............................ 3 credits This course covers standard business practices relating specifically to the multimedia industry. Develops the basic skills and tools for job shopping, including writing a resume and proper business communication practices. Create a plan for developing your portfolio. Establish and organize an efficient workflow for a freelance business. Demonstrate an understanding of project management skills. This media course is geared for Media Arts majors. It is recommended that you have completed at least one term of multimedia design, graphic design or web design coursework prior to taking this course. May be offered as a traditional, fully online or hybrid course.

MUL 220 Intermediate Typography ...................................... 3 credits Prerequisite: ART 119 This course provides students with an in depth understanding of how typography is used to communicate content both visually as image as well as 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.

MUL 280 Co-op Ed: Web Design ......................................... 3-12 credits Prerequisite: Instructor Approval. This course offers career-related work experience in professional web design sites in community business and organizations. 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 1-year certificate. Contact the Multimedia Design Co-op coordinator before registering. Course may be repeated.

VP 151 Video Production 1: Camera ..................................... 3 credits Prerequisite: MUL 105 or ART 261, and AUD 120 and FA 250. Introduces elementary concepts of 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 learning the theory and practice of video production and computerized video editing combined with the application of multimedia programs.

Medical Assisting

For information, contact the Health Professions Division, Bldg. 4/Rm. 222, 541.463.5617. You must be accepted into the Medical Assisting program to take some of these classes.

MA 110 Clinical Assistant .................................................. 3 credits Prerequisite: Admission to the Medical 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 setting. Includes: starting or any CPC test; training on medical terminology, exam room techniques, vital signs, taking a patient history, proper handling of patient medical record and documentation requirements.

MA 120 Clinical Assistant 2 .............................. 3 credits
Prerequisites: MA 110. Includes identification, care and use of clinical instruments. Preparation for assisting physician with office procedures and surgeries. Introduction to basic pharmacology and drug identification. Identification of injection sites, introduction to preparation of injectables; instruction in mixing and administering ID, SQ, and IM injections; application of bandages and dressings. It will then create their own songs or develop more refined sound analysis techniques.

MUS 107 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 a recording engineer 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: sound and hearing, studio acoustics, microphones choices and positioning, mixing board, recording technology, tracking, audio editing, signal processing, monitoring, mixing, mastering, work flow, and professionalism.

MUS 108 Music in World Cultures ........................ 4 credits
This one-term basic survey explores selected musical cultures 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 equipment, will begin taking place: operation of outboard mic pre amps 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: MUS 108. 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. 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 analysis and composition. 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. This course is designed to be taken with MUS 114 and MUS 127 concurrently.

MUS 112 Music Theory 1 (Second Term) .................... 4 credits
Prerequisite: MUS 111. Must be taken in sequence. Emphasis of MUS112 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. This course is designed to be taken with MUS 115 and MUS 128 concurrently.

MUS 113 Music Theory 1 (Third Term) ..................... 4 credits
Prerequisites: MUS 112. Must be taken in sequence. Emphasis of MUS 113 is in concepts of prolongation and contextual analysis. Includes all diatonic chords, cadences, embellishing chords, melodic analysis, sequences, and secondary dominants. This course is designed to be taken with MUS 116 and MUS 129 concurrently.

MUS 114 Sight-reading and Ear Training (First Term) ........ 2 credits
Theory placement test required. In this three term sequence of courses, one develops the skills necessary to read melodies at sight and identify the melodies one hears. It includes study of rhythm and meter, tonality and modality (solfeggio) scales, triads and seventh chords, cadences, and conducting patterns. This course is designed to be taken with MUS 111 and MUS 127 concurrently.
MUS 115 Sight-reading and Ear Training (Second Term) 2 credits
Prerequisites: MUS 114. 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 conducting patterns. Designed to be taken with MUS 112 and MUS 128 concurrently.

MUS 116 Sight-reading and Ear Training (Third Term) 2 credits
Prerequisites: MUS 115. 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, designed to be taken with MUS 113 and MUS 129 concurrently.

MUS 118 Music Technology MIDI/Audio 1 4 credits
This course provides the student with an opportunity, through group instruction and hands-on experience, to study current applications of music technology in a comprehensive MIDI/audio studio. Students will learn to use various music production tools, using MIDI sequencing, patch editing, digital audio recording, MIDI networking, digital effects devices and plug-ins, and both digital and analog 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 studio 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 comprehensive MIDI/audio studio. Students will learn advanced applications 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 experience 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
Theory placement test required. This course is the first of a three-term sequence. It is designed to develop piano skills essential for all music majors: performance of rhythmic patterns, 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. This course is designed to taken with MUS111 and MUS114 concurrently.

MUS 128 Keyboard Skills 1 (Second Term) 2 credits
Prerequisites: MUS 127. This course is the second of a three-term sequence. It is designed to develop piano skills essential for all music majors: performance of rhythmic patterns, 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. This course is designed to be taken with MUS 111 and MUS 115 concurrently.

MUS 129 Keyboard Skills 1 (Third Term) 2 credits
Prerequisites: MUS 128. This course is the third of a three-term sequence. It is designed to develop piano skills essential for all music majors: performance of rhythmic patterns, 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. This course is designed to be taken with MUS 112 and MUS 116 concurrently.

MUS 131 Group Piano 2 credits
This course is for students who are not music majors who are interested 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 vary from term to term. May be repeated up to 6 total credits. May be applicable to transfer associate's degrees.

MUS 134 Group Voice 2 credits
This course is designed to help students develop their voices for singing. They will be instructed individually and as a group in vocal techniques that will improve the quality of their voices. They will learn about diction, phrasing, 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. Survival techniques will be taught to prevent stage fright. 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 transfer associate's degrees.

MUS 137 Group Guitar 2 credits
The student must have access to an acoustical guitar. Group Guitar 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 techniques are taught to accompany singing. May be repeated up to 6 total credits.

MUS 138 Group Guitar 2 2 credits
Group Guitar will involve an intermediate level orientation to guitar techniques, including reading the whole neck above the fourth fret, that will encompass accompaniment and solo skills in a variety of styles. Intermediate level standard music reading will be covered. Contents 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 signatures. Prerequisite: MUS 101. Keen interest and instructor approval required. May be repeated up to 12 total credits.

MUS 185 Instrumental Performance 1 credits
Instrumental vocal performance is designed for vocal/instrumental students at MUP 100 or above who are taking individual lessons and are declared pre-music or music majors. This class 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 applicable to transfer associate's degrees.

MUS 201 Exploring Music: Introduction to Music and Its Literature 3 credits
This course covers the development of Western Music from its beginnings 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. The focus of this class is on the Medieval, Renaissance, Baroque, and Classical Eras. First course in sequence. Course can be taken out of sequence. No prerequisite. Course fulfills Arts and Letters requirement for AAOT. May be offered online.

MUS 202 Exploring Music: Introduction to Music and Its Literature 3 credits
This course covers the development of Western Music from its beginnings 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. The course looks briefly at some music in the Eighteenth Century; however the main focus of this class is on the Romantic Era and the origins and rise of Opera through the Romantic Era. Second course in sequence. Course can be taken out of sequence. No prerequisite. Course fulfills Arts and Letters requirement for AAOT. May be offered online.

MUS 203 Exploring Music: Introduction to Music and Its Literature 3 credits
This course covers the development of Western Music from its beginnings 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. Enjoyment of music through understanding is the primary emphasis. The class looks at some music at the end of the Nineteenth Century however the main focus of this class is on music of the Twentieth and Twenty-first Centuries. Third course in sequence. Course can be taken out of sequence. No prerequisite. Course fulfills Arts and Letters requirement for AAOT.

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/genre/cultural diversity requirements.
MUS 211 Music Theory 2: (First Term) 3 credits
Prerequisite: MUS 113, MUS 116, and MUS 129. This three-term sequence is a continuation of Music Theory I (MUS11, 112, 113) with further study of compositional techniques in tonal harmony. Emphasis of MUS 211 is on chromaticism and analysis. Includes altered chords (N6 and augmented sixths chords), modal mixture and diatonic modulation. Designed to be taken with MUS 214 and MUS 224 concurrently.

MUS 212 Music Theory 2 (Second Term) 3 credits
Prerequisites: MUS 211. 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. Designed to be taken with MUS 215 and MUS 225 concurrently.

MUS 213 Music Theory 2 (Third Term) 3 credits
Prerequisites: MUS 212. Emphasis is on musical language of the 20th century, including modes, atonality, serialism, set theory, new forms and new organizations of rhythm and meter. Designed to be taken with MUS 216 and MUS 226 concurrently.

MUS 214 Keyboard Skills 2 (First Term) 2 credits
Prerequisite: MUS 113, MUS 116, and MUS 129. This course is the first of a three-term sequence. It is designed to develop piano skills essential for all music majors. Keyboard Skills 2 focuses on chromatic harmony. Skills include the performance of scales and arpeggios, chord progressions with modulations (including altered chords) with corrective voice leading and resolution, harmony, transposition, improvisation, realization of figured bass, sight-reading of two-part piano texture. Designed to be taken with MUS 212 and MUS 224 concurrently.

MUS 215 Keyboard Skills 2 (Second Term) 2 credits
Prerequisite: MUS 214. This course is part of a six-term sequence. It is designed to develop piano skills essential for all music majors. Keyboard Skills 2 focuses on chromatic harmony. Skills include the performance of scales and arpeggios, chord progressions with modulations (including altered chords) with corrective voice leading and resolution, harmony, transposition, improvisation, realization of figured bass, sight-reading of two-part piano texture. Designed to be taken with MUS 212 and MUS 225 concurrently.

MUS 216 Keyboard Skills 2 (Third Term) 2 credits
Prerequisite: MUS 215. This course is the third in a three-term sequence. It is designed to develop piano skills essential for all music majors. Keyboard Skills 2 focuses on chromatic harmony. Skills include the performance of scales and arpeggios, chord progressions with modulations (including altered chords) with corrective voice leading and resolution, harmony, transposition, improvisation, realization of figured bass, sight-reading of two-part piano texture. Designed to be taken with MUS 213 and MUS 226.

MUS 224 Sight-reading and Ear Training (First Term) 2 credits
Pre-reqs: MUS 113, MUS 116, MUS 129. This is the first of a three-term sequence. Continues development of student's perception, knowledge, and skills needed to notate melodies, 2 and 4 part harmonies. This course is designed to be taken with MUS 211 and MUS 214 concurrently.

MUS 225 Sight-reading and Ear Training (Second Term) 2 credits
Prerequisites: MUS 224. This is the second of a three-term sequence. Continues development of student's perception, knowledge, and skills needed to read and write music. This course is designed to be taken with MUS 212 and MUS 215 concurrently.

MUS 226 Sight-reading and Ear Training (Third Term) 2 credits
Prerequisites: MUS 225. This is the third of a three-term sequence. Continues development of student's perception, knowledge, and skills needed to read and write music. This course is designed to be taken with MUS 213 and MUS 216 concurrently.

MUS 260 History of Hip-Hop and Rap music 3 credits
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 1984-1975, while learning about important artists in this style.

MUS 264 History of Rock Music 1 4 credits
Prerequisites: MUS 111, MUS 112. History is a survey of the music, lives, and times of composers and other musicians that influenced the course of Western Music. Spring term covers the Romantic era (including middle to late Beethoven) through twentieth-century to the present (c.1800-present).

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 its pre-Rock influences and its development through 1984-1975, while learning about important artists in this style.

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 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. Contents and expected learning proficiencies of this course vary from term to term. May be repeated up to 12 total credits. Please consult music representative/education coordinator before attempting to register.

MUS 285 Gospel Choir 4 credits
Gospel choir provides a performance opportunity for the student who does not read music. The ensemble will primarily explore traditional African-American sacred music from the early spirituals to today's contemporary gospel sound. Emphasis will be placed on both group and personal expression which historically characterized the wellspring of this music, which is native to the United States. No audition required; open to allLane 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 select vocal ensemble that rehearses and performs chamber music from the medieval period to the present. Audition by application. 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 293 Jazz Composers 2 credits
MUS 293 provides a performance opportunity for the student who does not read music. The ensemble will primarily explore traditional African-American sacred music from the early spirituals to today's contemporary gospel sound. Emphasis will be placed on both group and personal expression which historically characterized the wellspring of this music, which is native to the United States. No audition required; open to allLane students. 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. This course blends the talents of
Music

COURSE DESCRIPTIONS

240

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.

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 and literature. An audition is recommended for new members though not required. Returning members do not need to audition. High school or college ensemble experience is recommended. 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, 7:9:50 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, 7-9:50 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 necessary, but ability to match pitch is required for all students. 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. 6Rm. 204, 541.463.3108.

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 50-min lessons each term in their major instrument. Instruction is offered in the following: baritone horn, bassoon, cello, clarinet, classical guitar, electric bass guitar, flute, French horn, harp, jazz guitar, oboe, percussion, piano, saxophone, string bass, trombone, trumpet, tuba, violin, voice. 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 for pre- and non-majors. Students receive 10 50-min lessons each term in their major instrument. Instruction is offered in the following: baritone horn, bassoon, cello, clarinet, classical guitar, electric bass guitar, flute, French horn, harp, jazz guitar, oboe, percussion, piano, saxophone, string bass, trombone, trumpet, tuba, violin, voice. 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. 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. 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. 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: Bassoon (First-year level) ... 2 credits

Prerequisite: Jury required to enter this level. See course description for MUP 171. May be repeated up to 12 total credits.

MUP 186 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 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 (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 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. Individual instruction in technical and stylistic aspects of solo performance for pre- and non-majors. Students receive 10 50-min lessons 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 194 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 for pre- and non-majors. Students receive 10 50-min lessons each term in their major instrument. Instruction is offered in the following: baritone horn, bassoon, cello, clarinet, classical guitar, electric bass guitar, flute, French horn, harp, jazz guitar, oboe, percussion, piano, saxophone, string bass, trombone, trumpet, tuba, violin, voice. 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.

MUP 284 Individual Lessons: Saxophone
(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 287 Individual Lessons: French Horn
(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 288 Individual Lessons: Trombone
(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 289 Individual Lessons: Baritone Horn
(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 290 Individual Lessons: Tuba
(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 291 Individual Lessons: Percussion
(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 292 Individual Lessons: Electric Bass
(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 294 Individual Lessons: Guitar
(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.

HO 090 Nursing Assistant …………………………………………………………… 8 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 estab-
lished by the Oregon State Board of Nursing. Individuals satisfac-
torily completing all requirements of this course are eligible to sit for
the Oregon State Board of Nursing competency examinations. The
course includes both didactic and clinical instruction and evaluation.
A criminal background check is required for each student and finger-
printing may be required. Enrollment restricted to pre-nursing and
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 cur-
rriculum. The emphasis is on health promotion across the life span
includes learning about self-health as well as client health practices.
To support self and client health practices, students learn to access
research evidence about healthy lifestyle patterns and risk factors for
disease/illness, apply growth and development theory, interview cli-
ents in a culturally-sensitive manner, work as members of a multi-
disciplinary team giving and receiving feedback about performance,
and use reflective thinking about their practice as nursing students.
The family experiencing a normal pregnancy is a major exemplar.

NRS 110B Foundations of Nursing-Health Promotion
Clinical Lab………………………………………………………………. 5 credits
Clinical Lab required for NRS110A.

NRS 111A Foundations of Nursing in Chronic Illness 1 ………… 2 credits
This course introduces assessment and common interventions
(including technical procedures) for clients with chronic illnesses
across the life span major ethnic groups within Oregon. The
client and family “lived experience” of the illness, coupled with clin-
ical practice guidelines and evidence based research evidence is used to guide
clinical judgments in care to the chronically ill. Roles of multidi-
сiplinary team in care of the chronically ill, and legal aspects of dele-
gations are explored. Through case scenarios, cultural, ethical, health
policy, and health care delivery system issues are explored in the con-
text of the chronic illness care. Case exemplars include children with
asthma, adolescent with a mood disorder, adult-onset diabetes, and
older adults with dementia. (Concurrent with Pathophysiology 1 and
Pharmacology 2). (Can follow Foundations of Nursing in Acute Care I).

NRS 111B Foundations of Nursing in Chronic Illness 1-
Clinical Lab……………………………………………………………….. 4 credits
Corequisite: NRS 111A. Clinical Lab required for NRS111B.

NRS 112A Foundations of Nursing in Acute Care 1 ………… 2 credits
Prerequisite: NRS 111A and NRS 111B and WR 123 or WR 227 and
admission in the Nursing Program. Corequisite: NRS 112B.
This course introduces the learner to assessment and common interven-
tions (including relevant technical procedures) for care of patients
across the life span who require acute care, including normal child-
birth. Disease/illness trajectories and their translation into clinical
practice guidelines and/or standard procedures are considered in
relation to their impact on providing culturally sensitive, client-cen-
tered care. Includes classroom and clinical learning experiences.

NRS 112B Foundations of Nursing in Acute Care 1
Clinical Lab……………………………………………………………….. 4 credits
Corequisite: NRS 112A Clinical Lab required for NRS112A.

NRS 115 LPN Transition to OCNE ………………………………………… 6 credits
Prerequisite: NRS 230 and NRS 232. 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 Analog Clinical Nurse. Concepts and applicability of the ANA Code of Ethics will be empha-
sized. Students will be introduced to evidenced-based care includ-
ing 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 criti-
cal 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 experi-
ences including evaluation of certain clinical skills.

NRS 221A Foundations of Nursing in Chronic Illness 2
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 I. The evidence base related to family

Nursing

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 learn-
ing 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 221A</td>
<td>Foundations of Nursing in Chronic Illness 2 and End-of-Life Clinical Lab</td>
<td>5</td>
<td>Corequisite: NRS 221A. Clinical Lab required for NRS221A.</td>
</tr>
<tr>
<td>NRS 222A</td>
<td>Foundations of Nursing in Acute Care 2 and End-of-Life</td>
<td>4</td>
<td>Prerequisite: Admission in Nursing Program. This course builds on Nursing in Acute Care I, focusing on more complex and/or unstable patient care situations, some of which require strong recognition skills, 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, 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.</td>
</tr>
<tr>
<td>NRS 222B</td>
<td>Foundations of Nursing in Acute Care 2 and End-of-Life Clinical Lab</td>
<td>7</td>
<td>Corequisite: NRS 222A. Clinical Lab required for NRS222A.</td>
</tr>
<tr>
<td>NRS 224A</td>
<td>Integrative Practicum 1</td>
<td>2</td>
<td>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, registered 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.</td>
</tr>
<tr>
<td>NRS 230</td>
<td>Clinical Pharmacology 1</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>NRS 231</td>
<td>Clinical Pharmacology 2</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>NRS 232</td>
<td>Pathophysiological Processes 1</td>
<td>3</td>
<td>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 102G; 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 diseases. Students will learn to make selective clinical decisions regarding using current, reliable sources of pathophysiological 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.</td>
</tr>
<tr>
<td>NRS 233</td>
<td>Pathophysiological Process 2</td>
<td>3</td>
<td>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 pathophysiological 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.</td>
</tr>
<tr>
<td>NRS 280</td>
<td>Co-op Ed: Nursing</td>
<td>2-12</td>
<td>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 nurses professionals, explore career options, and integrate theory and practice. This course is not required for the Nursing Program AAS degree.</td>
</tr>
<tr>
<td>PN 101</td>
<td>Practical Nursing 1</td>
<td>12</td>
<td>Prerequisite: WR 115; HO 100; BI 233; PSY 201 Admission in the Practical Nursing program. This course is the first of three terms in the Practical Nursing Program. Content covered in the classroom and lab 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; health promotion; cultural 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, mini cognition and pain), nursing process, documentation, and oral, topical, drops, ointments, sublingual medication administration, dosage calculation. Clinical application content and skills are taught in the nursing lab and in the outpatient and ambulatory care settings. May be offered in a format with some online instruction.</td>
</tr>
<tr>
<td>PN 102</td>
<td>Practical Nursing 2</td>
<td>12</td>
<td>Prerequisite: PN 101 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 cardiovascular, endocrine, respiratory, gastrointestinal, and renal disorders; and care of the patient having surgery. Pain management and an introduction to mental health disorders are also included in this course. Skills taught 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, application of antithromboembolic devices, intravenous therapy (maintenance IVs - hanging and programming rates), care of surgical drains, and suture removal. Clinical application of theory content will take place in the Simulation lab and in the acute care setting.</td>
</tr>
<tr>
<td>PN 103</td>
<td>Practical Nursing 3</td>
<td>13</td>
<td>Prerequisite: PN 102 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 through Distance Learning.</td>
</tr>
</tbody>
</table>
Nutrition

For information, contact the Health Professions Division, Bldg. 4/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 through 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. May be offered online.

FN 130 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 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 245 Medical Nutrition Therapy for Dietary Managers ... 3 credits Prerequisite: FN 105 or FN 225 This course focuses on Medical Nutrition Therapy concepts within the scope of a dietary manager working within a skilled nursing facility. The content is designed to prepare students for their cooperative education experience, the dietary manager credentialing examination, and their professional careers.

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 ....................................... 3 credits Prerequisite: FN 235 and FN 245. This is a supervised internship to gain experience in food production, food service management, human resource management, sanitation and food safety, and nutritional care principles within clinical and community environments.

Office Assistant - See Administrative Support

Paramedic - 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 issues 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 online.

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 or online course.

PHL 205 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 lanec.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; the proper size and scope of government; crime, including ‘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. May be offered as a live interactive or online course.

PHL 205_H Contemporary Moral Issues-Honors ............. 4 credits This class is an honors option available to students prepared to complete honors-level coursework. Honors options 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. Contact the instructor and see lanec.edu/honors for more information. This course is aimed at developing practical reasoning skills. Students will learn to analyze and evaluate arguments, detect fallacies, distinguish science from pseudo-science, recognize media bias, and understand methods of deception employed by advertisers, political organizations and others. A central goal of this course is to develop an attitude of fair-mindedness and intellectual honesty while learning to avoid the pitfalls of defensiveness and rationalization.

PHL 211 Critical Thinking ..................................................... 4 credits This course is aimed at developing practical reasoning skills. Students will learn to analyze and evaluate arguments, detect fallacies, distinguish science from pseudo-science, recognize media bias, and understand methods of deception employed by advertisers, political organizations and others. A central goal of this course is to develop an attitude of fair-mindedness and intellectual honesty while learning to avoid the pitfalls of defensiveness and rationalization.
REL 201 Hinduism, Sikhism, Jainism 4 credits
This course introduces students to the religions of Hinduism, 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 Buddhism, Confucianism, Taoism 4 credits
This course introduces students to the religions of Buddhism, Confucianism, and Taoism. 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 Judaism, Christianity, Islam 4 credits
This course introduces students to the religions 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 as a live interactive or online course.

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 canon of the Bible. Historical and critical analysis will be used to explore the authorship, worldviews, 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 to 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 discover to what extent the historical Jesus and early Christianity 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 Žen, 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 243 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 the natural environment. 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 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 and semi-automatic exposure control, composition, and basic color theory. Includes a demonstration on the theory of black-and-white print making. Note: Students should have access to a camera with adjustable exposure controls.

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 115GD, or ART 265. This course 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 282 Landscape and Architectural Photography 4 credits
Combines the formal issues of photography with the specific subjects of photographing landscape and architecture. Through weekly assignments photographing in the field, students apply fundamental concepts and gain a critical understanding of the role of photography 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 262. A course in advanced darkroom and photographic 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 proficiencies 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 products. Students also learn the basics in camera and 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, organize, and 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
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.

MUL 214 Digital Photography 3 credits
Prerequisite: ART 261. Overview of digital camera types, technologies, 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 sharing 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. 5/Rm. 205, 541.463.5545.

HE 280PH Co-op Ed: Public Health 3-12 credits
This internship course provides on-the-job learning experiences in the Health Education, Promotion and Public Health field. Students earn college credit while working under the supervision of a health professional. Internship sites are selected to support each student’s career goals, contributing to the student’s education and future employability.
PE 181B Cardio Core Conditioning ........................................ 1 credits
Designed to improve daily functioning, this class integrates rhythmic cardiovascular and resistance exercises with core conditioning techniques. Steps, hand weights and elastic bands are utilized to maximize exercise benefits. This class format is suitable for students of various fitness levels.

PE 181C Combination Aerobics ........................................ 1 credits
This rhythmic aerobics class is designed to increase cardiovascular 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 kickboxing aerobics.

PE 181K Cardio Kickboxing ........................................ 1 credits
Inspired by various forms of martial arts, Cardio Kickboxing incorporates rhythmic combinations and drills to improve cardiorespiratory endurance. Students learn relationship concepts and apply exercise principles to enhance overall health.

PE 181SB Body Sculpt ........................................ 1 credits
Rhythmic class incorporates resistance and aerobic exercises to increase muscular endurance and cardiorespiratory fitness. Weights, resistance bands and other equipment are utilized to develop muscle firmness and definition. Fitness principles, stress management, and nutrition concepts are examined.

PE 181S Step and Sculpt ........................................ 1 credits
Step & Sculpt is designed to increase muscular endurance and strength as well as enhance cardiorespiratory endurance. Participants learn and execute both step aerobics combinations and resistance exercises to experience the benefits of both approaches.

PE 181Y Yogilates ........................................ 1 credits
Yogilates incorporates the principles and methods of Pilates and Yoga to promote flexibility, balance, and core stability. Participants progress individually as exercises are taught at various levels to improve coordination, confidence, body awareness and body appreciation.

PE 181Z Zumba Fitness ........................................ 1 credits
"Ditch the Workout, Join the Party." Zumba will have you grooving to the beats of Salsa, Merengue, Reggaton and Cumbia to name a few. This Latin inspired dance workout is fun and full of energy. You don’t need to be a great dancer, to feel welcome in Zumba class, have a good time with no rhythm required.

PE 183A Conditioning ........................................ 1 credits
Various instructor-led activities utilize fitness equipment to enhance overall fitness. This progressive, cross-training approach is designed to improve strength, endurance, flexibility, and core stability. Nutrition and stress management concepts will be introduced.

PE 183B Exercise and Weight Control ........................................ 1 credits
Designed for individuals who would like to alter their body composition and control their weight. Class offers instructor-led activities to gain benefits related to regular exercise, including enhanced fitness and improved confidence. Nutrition and stress management concepts will be introduced.

PE 183C Exercise Walking ........................................ 1 credits
Emphasis is on a progressive walking program to develop, maintain and assess cardiovascular fitness, and muscle endurance. Instruction will include: joint flexibility, proper technique, training principles, injury prevention and nutrition. Health, Wellness, and Fitness concepts will be addressed.

PE 183CG Group Cycling ........................................ 1 credits
Instructor leads class using stationary cycles designed to improve cardiovascular endurance, enhance cycling skills and body mechanics. The class uses a variety of cycling specific body positions while providing lower level options for participants. Supplemental strength will also be introduced.

PE 183E Fitness Circuits ........................................ 1 credits
This is an advanced fitness class that utilizes fitness circuits to improve overall endurance, strength, and flexibility. Circuit difficulty will progress throughout the quarter. Various exercise equipment will be used. Concepts on nutrition, stress management and weight control are introduced.

PE 183F Fitness Education: Introduction ........................................ 1 credits
Students are guided in creating a balanced, personal fitness program in a supportive and noncompetitive environment. 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 register for this one time, mandatory orientation. This orientation covers course policies, grading, and general fitness information.

PE 183G Fitness Education: Returning ........................................ 1 credits
Students who have completed PE 183F and wish to continue their fitness program. Course opportunities include: personal training, fitness and health seminars, and fitness assessments. Students attend exercise sessions to fulfill course requirements and meet personal fitness goals.

PE 183J Jogging ........................................ 1 credits
Emphasis is on a progressive jogging program to develop, maintain and assess cardiovascular fitness, and muscle endurance. Instruction will include: joint flexibility, proper technique, training principles, injury prevention and nutrition. Health, Wellness and Fitness concepts will be addressed.

PE 183R Stability Ball Fitness ........................................ 1 credits
Students perform exercises with a stability ball focusing on increasing core stability muscular strength, endurance, flexibility, balance, and coordination. Light weights, resistance bands and weighted balls will be used during workouts. Nutrition and stress management concepts will be introduced.

PE 183S Strength Training ........................................ 1 credits
Emphasis on resistance training using a variety of exercise modalities. Develop and assess strength, muscular size, muscle definition, toning and improve general physical condition. Safe and proper technique, routines, programs, nutrition and stress management concepts will be addressed.

PE 183T Power Conditioning ........................................ 1 credits
Prerequisites: Any of the sports classes or PE 195, PE196 or PE197. This progressive, cross-training approach is designed to improve strength, flexibility and core stability. Resistance training using dumbbells, bands, body weight and machines will be introduced. Develop and assess strength, muscle and improved mental wellbeing.

PE 183U Strength Training for Women ........................................ 1 credits
Emphasis on resistance training using a variety of exercise modalities. Develop and assess strength, muscular size, muscle definition, toning and improve general physical condition. Safe and proper technique, routines, programs, nutrition and stress management concepts will be addressed.

PE 183W Progressive Integrative Exercise ........................................ 1 credits
Students perform personalized corrective exercise programs to improve fitness in both the injured and individuals with controlled diseases. Flexibility, strength, cardiorespiratory endurance, nutrition and stress management principles will be covered. Must be able to exercise with minimal supervision.

PE 184A Archery ........................................ 1 credits
Beginning and experienced students will learn safety, use of equipment, 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 suitable for our range.

PE 184B Badminton ........................................ 1 credits
Learn badminton and improve fitness through skill drills and game play. Footwork, grip, forehand and backhand shots, scoring, terminology, 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 184D Bowling ........................................ 1 credits
Instruction and practice in the fundamentals skills and techniques used for both straight and hook deliveries will be covered. Rules, scoring and etiquette will be addressed. This course is designed for beginning bowlers and is held off campus.

PE 184F Fencing ........................................ 1 credits
Instruction in basic foil fencing skills, including offensive and defensive skills, rules, etiquette, judging, and bout experience. Class includes warm-up and stretching skills.

PE 184FI Fencing Intermediate ........................................ 1 credits
Prerequisite: PE 184F with a grade of C- or instructor approval. Students will review the skills from Fencing and develop new technical
and tactical skills. Expanded instruction in the rules and sportsmanship of fencing, tournament play will be included. Class includes warm-up and stretching skills.

**PE 184N Conditioning for Martial Arts** ........................................ 1 credits Specific fitness, flexibility and movement skills for martial arts. Includes cardio fitness and muscular endurance exercises. Develops core strength, limb strength, and improve flexibility. A variety of exercise modalities will be used including body weight resistance and resistance bands.

**PE 185M Meditation** ................................................................. 1 credits A survey of diverse meditation techniques to enable students to find the appropriate methods for use themselves. Includes discussion and practice. Learn how movement, breathing, inner focus and nutrition contribute to stress reduction and improved well-being.

**PE 185T Tai Chi Chuan** ............................................................. 1 credits Beginning concepts of Yang style Tai Chi Chuan. Develop flexibility, relaxation and concentration. Improve balance, energy flow, breathing and coordination of body movement. Learn how nutrition contributes to improved well-being and stress reduction.

**PE 185U Tai Chi Chuan Intermediate** ........................................ 1 credits 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, nutrition improved health & concentration, increased energy, flexibility and clarity of mind.

**PE 185Y Yoga** ......................................................................... 1 credits Basic knowledge of asanas (postures), pranayama (breathing techniques), relaxation and yogic philosophy will be introduced. Includes both discussion and practice. Learn how movement, breathing and nutrition contribute to stress reduction and improved well-being.

**PE 185YG Gentle Yoga** ............................................................. 1 credits Learn gentle yoga postures, breathing and relaxation techniques. Designed for students who need modification of classical practice due to limited mobility or other special needs. Includes discussion and practice. Learn how movement, breathing and nutrition contribute to stress reduction.

**PE 185Z Yoga Intermediate** .................................................... 1 credits Designed for continuing students who have a basic knowledge of asanas (postures), pranayama (breathing techniques), relaxation and philosophy. Includes discussion and practice. Learn how movement, breathing and nutrition contribute to stress reduction and improved well-being.

**PE 186D Downhill Skiing and Snowboarding** ............................. 1 credits 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 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-captaining skills, boat maneuvering, river safety & rescue, and low river use.

**PE 188B Basketball** ............................................................... 1 credits 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 credits Review and practice of fundamentals and individual skills in daily progressive skill drill work. Team play may include 3 on 3, 4 on 4 and 5 on 5 game play. Offensive and defensive strategies and techniques will be discussed throughout the term.

**PE 188F Flag Football** ........................................................... 1 credits Fundamental skills, rules, and strategies taught and 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. Defensive strategies and techniques will be covered.

**PE 188P Soccer** ................................................................. 1 credits Instruction and practice in the fundamental soccer techniques, positions played, offensive and defensive tactics, team formation and rules of the game. Individual skills and ball handling will be addressed. Team play may include 11 on 11 or mini-game play.

**PE 188U Ultimate Frisbee** ...................................................... 1 credits 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 188V Volleyball** .............................................................. 1 credits Includes the fundamentals, rules, and strategy of volleyball. Develops specific skills necessary for successful recreational and/or competitive experience in volleyball.

**PE 188W Volleyball Intermediate** ............................................ 1 credits 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 credits 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 credits 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 credits 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 credits Prerequisite: PE191B 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 192A Volleyball-Women’s Conditioning 1** ............................ 1 credits A conditioning class designed for students with an interest in participating in competitive Volleyball. Strong emphasis on individual conditioning, endurance, exercise principles, and the development of fundamentals. Previous competitive playing experience recommended.

**PE 192B Soccer Conditioning 1** ............................................ 1 credits A conditioning class designed for students interested in competitive soccer. Emphasis on conditioning, exercise principles, and the development of fundamentals. Previous competitive playing experience recommended.

**PE 192C Cross Country Skills 1** ............................................. 1 credits Prerequisite: PE191B 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. Strong emphasis on conditioning, exercise principles, and the development of fundamentals. Previous competitive playing experience highly recommended.

**PE 192D Cross Country Conditioning 2** ..................................... 1 credits Ability level evaluated first week with 5k endurance test.

**PE 192E Cross Country Skills 2** ............................................. 1 credits Prerequisite: PE191B 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 192F Soccer Conditioning 2** ............................................ 1 credits Theory, analysis, 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 highly recommended.

**PE 192G Soccer Skills 1** ....................................................... 1 credits Theory, analysis, skills and techniques for students preparing for a competitive soccer experience at the elite level. Course covers terminology, rules, strategies, conduct, sportsmanship and healthy lifestyle choices. Previous competitive playing experience highly recommended.

**PE 192H Soccer Skills 2** ....................................................... 1 credits Prerequisite: PE192G or similar experience. Theory, advanced skills and techniques for skilled performers and individuals preparing for a competitive cross country experience at the elite level. Strong emphasis on conditioning, exercise principles, and the development of fundamentals. Previous competitive playing experience highly recommended.

**PE 193A Basketball Conditioning 1** ........................................ 1 credits 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 193B Basketball Skills-Mens Rules 1  1 credits
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 ball and Men's NCAA rules. Previous competitive playing experience highly recommended.

PE 193C Basketball Conditioning 2  1 credits
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 credits
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 credits
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 credits
Prerequisite: PE195A or similar experience. Advanced conditioning class designed for students interested in participating in competitive basketball at an elite level. Covers terminology, rules, strategies, 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 credits
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-Women's Rules 2  1 credits
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 credits
A conditioning class designed for students interested in participating in competitive track and field experience. Course covers terminology, regulations, and healthy lifestyle choices. Previous competitive track and field experience recommended.

PE 196B Track and Field Skills-Rules 1  1 credits
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, and healthy lifestyle choices. Previous competitive track and field experience highly recommended.

PE 196D Track & Field Conditioning 2  1 credits
Prerequisite: PE196A 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 recommended.

PE 196E Track and Field Skills-Rules 2  1 credits
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, and healthy lifestyle choices. Previous competitive track and field experience highly recommended.

PE 197A Baseball Conditioning 1  1 credits
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 credits
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 credits
Prerequisite: PE197A or similar experience. 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 credits
Prerequisite: PE197B or similar experience. Advanced course in the theory, 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.

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COURSE DESCRIPTIONS

Physical Science - See Chemistry, Earth and Environmental Science, Physics

Physical Therapist Assistant
For information, contact the Health Professions Division, Bldg. 4/Rm. 222, 541.463.5617. You must be accepted into the Physical Therapist Assistant program to take these classes.

PTA 100 Introduction to Physical Therapy  3 credits
Prerequisite: Admission into the PTA program. This course introduces the roles and responsibilities of physical therapy providers. Topics include history, practice patterns, laws, professionalism, communication, and information literacy. May be offered online.

PTA 101 Introduction to Clinical Practice  5 credits
Prerequisite: Admission into the PTA program. This course introduces physical therapy practice patterns for acute and chronic soft tissue injuries. Students are introduced to principles of body mechanics, gross mobility training, positioning, physical agents, and aquatic therapy. May be offered online.

PTA 101L Introduction to Clinical Practice 1 Lab  2 credits
Prerequisite: Admission into PTA program Corequisite: PTA 101 This co-requisite lab to PTA 101 allows for practice of physical therapy interventions for pain and soft tissue injuries. Topics and skills include safe application of physical agents, exercise, gross mobility training, positioning, and effective communication/documentation. May be offered in a format with some online instruction.

PTA 103 Introduction to Clinical Practice 2  5 credits
Prerequisites: PTA 101, PTA 101L, HO 152 or BI 233 Corequisite: PTA 103L The course is designed to assist PTA students in gaining a greater understanding of single organ dysfunction and subsequent effects on patient function. Anatomy, physiology, etiology, and theory are integrated with clinical considerations for effective physical therapy treatment. May be offered online.

PTA 103L Introduction to Clinical Practice 2 Lab  2 credits
Prerequisite: PTA 101, PTA 101L Corequisite: PTA 103 This co-requisite lab to PTA 103 allows for practice of clinical skills, tests, and measures for improving outcomes in patients/clients with dysfunction. Students practice effective communication and treatment skills for multiple practice settings. May be offered in a format with some online instruction.

PTA 104 PT Interventions-Orthopedic Dysfunctions  5 credits
Prerequisite: PTA 103, PTA 132 Corequisite: PTA 104 This course designed to assist students in gaining a greater understanding of bone tissue disease and disorders, and their effects on function across the lifespan. Anatomy, physiology, etiology, and theory are integrated with clinical considerations for effective physical therapy treatment. May be offered online.

PTA 104L PT Interventions-Orthopedic Dysfunctions Lab  2 credits
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  3 credits
Prerequisites: PTA 101, PTA 101L Corequisite: PTA 132L Students apply understanding of lower quarter structures and functions to clinical situations. Emphases on current evidence and clinical reasoning for safe and effective selection of therapeutic exercises and
interventions to improve peripheral joint motion and function as indicated within the physical therapy plan of care. May be offered online.

PTA 132L Applied Kinesiology Lab ............................................. 2 credits
Prerequisite: PTA 101, PTA 101L Corequisite: PTA 132L This co-requisite lab to PTA 132 allows for practice of physical therapy intervention 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 offered in a format with some online instruction.

PTA 133 Applied Kinesiology 2 .................................................. 3 credits
Prerequisite: PTA 132, PTA 132L Co-requisite: PTA 133L Students apply understanding of upper body structures and functions to clinical application of physical therapy interventions. This course builds on current evidence and clinical reasoning for safe and effective selection of therapeutic exercises and interventions to improve peripheral joint motion and function as indicated within the physical therapy plan of care. May be offered online.

PTA 133L Applied Kinesiology 2 Lab ............................................. 2 credits
Prerequisite: PTA 132 and PTA 132L Corequisite: PTA 133L The co-requisite 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 201 Physical Therapy and the Older Adult ............................................................... 2-24 credits
Prerequisite: Admission into PTA Program, second year student. This course is designed to facilitate understanding of older adults and their needs and to promote concepts of successful aging based on the evidence-based therapy interventions. Dementia, pharmacology, fall prevention, and the PTAs role in the team approach to providing quality care for the older adult will be examined. May be offered in a format with some online instruction.

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
Prerequisite: PTA 104, PTA 104L, PTA 133, and PTA 133L Corequisite: PTA 204L. This course is designed to assist PTA students in gaining a basic 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
Prerequisite: PTA 104, PTA 104L, PTA 133, and PTA 133L Corequisite: PTA 204. This co-requisite 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
Prerequisite: 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
Prerequisite: PTA 104, PTA 104L, PTA 133, and PTA 133L. This co-requisite lab for PTA 205 allows students to practice clinical skills, tests, and measures for improving outcomes in patients/clients with complex medical/mental conditions. May be offered in a format with some online instruction.

PTA 280A Co-op Ed: First Clinical Internship .......................................................... 4-8 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 level of 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 Internship .................................................. 4-8 credits
Prerequisite: PTA 280A Second year PTA students apply PT interventions under PT/PTA supervision at a contracted clinical site. Students progress toward intermediate and advanced intermediate level of practice by demonstrating communication and critical thinking for the workplace. This is the second of three off-campus clinical learning experiences.

PTA 280C Co-op Ed: Third Clinical Internship .................................................. 4-8 credits
Prerequisite: PTA 280B Second year PTA students apply PT interventions under PT/PTA supervision at a contracted clinical site. Students progress toward entry-level PT practice by demonstrating communication and critical thinking for the workplace. This is the third and final of three off-campus clinical learning experiences.

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 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 higher. ASTR 121, 122 and 123, may be taken out of sequence. This sequence provides an in-depth and comprehensive introduction to the science of astronomy. These courses are designed to serve non-science majors, but also offer a good introduction for prospective science majors interested in Astrophysics or Space Science. These courses have a significant lab component. ASTR 121 focuses on naked-eye astronomy and the science of astronomy focused primarily on 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 higher. ASTR 122 focuses on the fundamental physics concepts underlying our understanding of stars. How we observe light from stars and 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, and the physical concepts behind them.

ASTR 123 Cosmology and the Large-Scale Structure of the Universe .................................................. 4 credits
Prerequisite: MTH 052 or higher. ASTR 123 focuses on the search for understanding the nature of the Milky Way galaxy, Normal Galaxies, Active Galaxies and Quasars, Life in the Universe, and Cosmology including the Big Bang, the geometry of space-time, the cosmic background radiation, Dark Matter and Dark Energy.

GS 104 Physical Science .......................................................... 4 credits
Prerequisite: MTH 052 or above with grade of ‘C-‘ or better or pass placement test. Some or all of the GS 104,5,6 sequence can be taken in any order. The GS 104,5,6 sequence is designed for non-science majors, providing a broad exploration and overview of basic principles that tie the physical sciences together. The focus of each term of the GS 104,5,6 sequence is determined by the availability of faculty and lab experience from physics, chemistry, and geology plus astronomy, respectively. GS104 concerns selected topics in Newtonian mechanics, thermodynamics, electricity and magnetism, waves, light, and modern physics. The class environment includes labs, demonstrations, discussion, and individual and group activities.

PH 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 PH 101,2,3 sequence can be taken in any order. The ‘Fundamentals of Physics’ courses provide an introduction to a broad range of fundamental physics concepts. PH
PH 201 General Physics .......................... 5 credits
Prerequisite: MTH 112 with grade of 'C-' or better or pass placement test. Algebra/trig-based General Physics sequence for science majors. Concepts include force, acceleration, work, energy and momentum. Emphasizes conceptual understanding, mathematical representations, problem solving, applications and science skills.

PH 202 General Physics .......................... 5 credits
Prerequisite: PH 201 with grade of 'C-' or better. Algebra/trig-based General Physics sequence for science majors. Concepts include rotational motion, sound, wave phenomena and optics. Emphasizes conceptual understanding, mathematical representations, problem solving, applications and science skills.

PH 203 General Physics .......................... 5 credits
Prerequisite: PH 202 with grade of 'C-' or better. Algebra/trig-based General Physics sequence for science majors. Concepts include electricity, magnetism, and selected topics from modern physics. Emphasizes conceptual understanding, mathematical representations, problem solving, applications and science skills.

PH 211 General Physics with Calculus .......... 5 credits
Corequisite: MTH 251. PH 211,2,3 is a calculus-based, three-term sequence providing an introduction to fundamental physics concepts, analysis, exploration, calculation and problem-solving that are required for engineering and physics majors, and also readily meets any General Physics requirements for other health, mathematics and science majors. PH 211,2,3 require a concurrent study of calculus in Math 251,2,3, if calculus hasn't been studied previously. Concurrent study of calculus can be expected to be supported by the experience of these physics courses. These three courses all focus on conceptual understanding and exploration, visual and mathematical representation, calculation, and problem solving. PH 211 introduces the nature of science, Classical Newtonian Mechanics, energy, and momentum. The class environment includes labs, demonstrations, discussion, and individual and group activities.

PH 212 General Physics with Calculus .......... 5 credits
Prerequisite: PH 211 and MTH 251 with grades of 'C-' or better; Corequisite: MTH 252. PH 212 introduces rotational motion, fluid pressure and Bernoulli's equation, oscillatory motion, and fundamentals of waves and optics. See information about the General Physics with Calculus sequence in the PH 211 course description. The class environment includes labs, demonstrations, discussion, and individual and group activities.

PH 213 General Physics with Calculus .......... 5 credits
Prerequisite: PH 212 and MTH 252 with grade of 'C-' or better; Corequisite: MTH 253. PH 213 is the last term of the calculus-based General Physics sequence and focuses primarily on electricity and magnetism. See information about the General Physics with Calculus sequence in the PH 211 course description. The class environment includes labs, demonstrations, discussion, and individual and group activities.

Political Science

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

PS 201 U.S. Government and Politics ............... 3 credits
An introduction to U.S. Government and politics that focuses on the historical and contemporary developments of American political institutions, the 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. May be offered online.

PS 202 U.S. Government and Politics ............... 3 credits
A continuation of U.S. Government and Politics that focuses on the structure 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. May be offered online.

PS 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 communities as well as examples from Lane County and Oregon.

PS 205 International Relations ........................ 3 credits
This introductory course examines the systems 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
The 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 rights 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. Theoretical ways of conceptualizing peace and conflict are used to examine important aspects of United States politics. Topics vary in order to focus on important contemporary issues. Examples include the impact of
militarization on social programs, the concentration of media, economic inequality in the United States, the prison industrial complex, and a variety of social and environmental justice issues.

**PS 213 Peace and Conflict Studies: Local** ........................................... 4 credits
This course focuses on issues of peace and conflict at the local level. Based on 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. Guests cover a wide variety of issues and perspectives typically 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 liberties, 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 Co-op Ed: Political Science** .................................................. 2-12 credits
Intern with governmental and political professionals. Work on political campaigns, assist federal/state/local legislators or work with grass roots organizations. Enhance your academic and career resumés, develop workplace skills and earn academic credit. No prior experience required; a one term commitment is required, but course can be repeated.

**PS 280LW 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. 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.

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**Psychology**

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5427.

**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 workbook course materials. May be offered as a telecourse.

**PSY 201 General Psychology** ....................................................... 4 credits
Prerequisite: Sophomore standing recommended. Scientific principles of psychology and psychological research; an introduction to experimental methodology; developmental and structural aspects, neurobiology 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 development, stress, abnormal social, and applied psychology. Previous PSY 201 & PSY 202 recommended. May be offered online.

**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 215 Lifespan Developmental Psychology** ............................... 4 credits
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 231 Human Sexual Behavior** ................................................ 4 credits
Prerequisite: PSY 201 or instructor consent. Explores the behavioral, psychological and biological components of human sexual behavior. Topics include cross-cultural comparisons, learned and developmental origins, biological systems, variations in sexual behavior, gender roles, and deviance. Course emphasizes behavioral rather than health issues in human sexuality.

**PSY 239 Introduction to Abnormal Psychology** ............................. 3 credits
Recommend 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.

**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.

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**Radio - See Media Arts**

**Reading - See Study Skills and College Prep**

**Religion - See Philosophy and Religion**

**Respiratory Care**

For information, contact the Health Professions Division, Bldg. 4/Room 222, 541.463.5617. You must be accepted into the Respiratory Care 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.

**RT 110 Introduction to Mechanical Ventilation** ............................ 3 credits
Prerequisite: RT 254 and RT 251(minimum passing grade of C), or consent of instructor. Introduction of concepts of mechanical ventilator support of the critically ill or ventilator dependent patient.
Discussion includes ventilator settings, monitoring/assessment parameters, devices used for long-term mechanical ventilatory support. May be offered online.

RT 112 Respiratory Care Science .......................... 2 credits
Prerequisite: Acceptance into Respiratory Care Program or consent of instructor. This course provides instruction in pertinent principles of mathematics, physics and chemistry relating to the practice of respiratory care. Student must have previous educational experience in mathematics and chemistry as required by admission to the respiratory care program. May be offered online.

RT 114 Fundamentals of Respiratory Care Professionalism 3 credits
Prerequisite: Acceptance into the Respiratory Care Program. Provides instruction in professionalism, communication, conflict resolution, cultural competency, health literacy, and legal/ethical issues relevant to the practice of the respiratory care professional. May be offered online.

RT 126 Respiratory Care Case Review - Part 1 ............. 2 credits
Prerequisite: RT 127 (minimum passing grade of C), or consent of instructor First 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 127 Respiratory Care Diseases and Medications ........ 3 credits
Prerequisite: RT 112 and RT 114 (minimum passing grade of C-), or consent of instructor Review of normal anatomic/physiologic components of the cardiopulmonary system, including causes/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 disorders are included. May be offered online.

RT 136 Respiratory Care Case Review Part 2 .............. 4 credits
Prerequisite: RT 126 (minimum passing grade of C) or consent of instructor Second 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 141 Principles of Respiratory Care Lab ..................... 1 credits
Co-Requisite: RT 144 Practice time is provided for medical gas delivery, humidity and aerosol therapy, medication delivery, breathing procedures, chest physical therapy, hyperinflation therapy, and emergency resuscitation techniques.

RT 144 Principles of Respiratory Care .......................... 3 credits
Prerequisite: RT 112 and RT 114 (minimum passing grade of C) or consent of instructor. Emphasis on basic therapeutic modalities encountered in the clinical setting. Patient monitoring, indications, contraindications, and hazards of therapies are presented. Physical principles of behavior of gases, and application of gas laws pertinent to respiratory care practice is included. May be offered online.

RT 146 Introduction to Clinical Respiratory Care .......... 4 credits
Provides introduction to the practice of Respiratory Care. Emphasis is on developing competency in the performance of basic patient care skills by the health professional.

RT 154 Introduction to Cardiopulmonary Monitoring and Diagnostics ................................................. 3 credits
Prerequisite courses: RT 112, RT 146 Normal anatomic and physiologic components of respiration and cardiac function, including mechanisms of oxygen and carbon dioxide transport, mechanisms of regulation of respiration, acid-base balance, and defense mechanisms of the lung. Provides foundation for monitoring and diagnosis of cardiopulmonary disorders.

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 241 Principles of Mechanical Ventilation Lab ........... 1 credits
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 gases, 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 wave-forms, and problem-solving algorithms presented. May be offered online.

RT 251 Cardiopulmonary Diagnostics and Monitoring Lab 1 credits
Co-requisite: RT 254 Emphasis is placed on bedside patient assessment, laboratory investigation, pulmonary function testing techniques and interpretation of results, radiologic assessment and interpretation of arterial blood gas interpretation. Topics include bronchoscopy assisting and assessment of sleep disorders.

RT 254 Cardiopulmonary Diagnostics and Monitoring .......... 3 credits
Prerequisites: RT 154 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 assessment of respiratory disorders. 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 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 physiology, pulmonary complications, and intensive care procedures. Transport and assessment of the sick newborn and child patient for 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. Presents 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. May be offered online.

RT 270 Clinical Competency Assessment ........................ 1 credits
Prerequisite: RT 266 (minimum passing grade of C), 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 of skills 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, analysis and application 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 .................. 3 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 courses. Provides opportunity for certification in Neonatal Resuscitation Protocol, Advanced Cardiac Life Support, and Pediatric Advanced Life Support.

RT 280A Co-op Ed: Respiratory Care Clinical Practice 1 ...... 7 credits
Prerequisite: RT 144 and RT 146 (minimum passing grade of C), or consent of instructor This course builds on content presented in the prerequisite courses. Provides opportunity for certification in Neonatal Resuscitation Protocol, Advanced Cardiac Life Support, and Pediatric Advanced Life Support.

RT 280B Co-op Ed: Respiratory Care Clinical Practice 2 ...... 5 credits
Prerequisite: RT 280A or 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.
SOC 206 Institutions and Social Change ................................. 4 credits
Sociological analysis of fundamental social institutions, such as family, education, the economy, and the state; connections among institutions, and the forces and dynamics of social change. May be offered online or as a telecourse.

SOC 208 Sport and Society .................................................. 4 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, legalization, deviance, social problems, social inequalities including class, race, gender, social institutions including the economy, politics, mass media, and religion, and social change.

SOC 210 Marriage, Family, and Intimate Relations ..................... 4 credits
Examines family, parenting, reproduction, intimate relationships, sexuality, and family disruptions in a social context. Utilizes sociological approach to develop insights into personal experiences and inform perspectives on social policies that affect families and intimate relationships.

SOC 211 Social Deviance ...................................................... 3 credits
This course examines the dynamic social, economic, and cultural processes through which identities and behaviors are constructed as deviant. Topics include, but are not limited to the relationships between race, class, gender, sexuality, disability and the social construction of deviance. Utilizing sociological theories we will move away from understanding deviant behavior as a personal and individual phenomenon and rather focus on deviance as a social construction that is negotiated and contested. Emphasis will be placed on the role of the state, as well as historical, political, cultural and economic dimensions of deviance and social control. May be offered in distance learning format.

SOC 213 Race and Ethnicity .................................................. 4 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 218 Sociology of Gender ................................................. 4 credits
Sociology is a social science that uses the methods of the social sciences 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 ...................................................... 4 credits
This course explores contemporary social problems, including topics such as social inequality, environmental degradation, impacts of globalization, and criminalization. Examines how social conditions come to be labeled as “problems,” the causes and consequences of those conditions, and how social activists and policymakers respond to social problems.

SOC 228 Introduction to Environmental Sociology .................. 4 credits
This course explores the social causes, consequences, and potential solutions to environmental problems. Students survey diverse environmental philosophies and sociological perspectives to examine society’s relation with the environment.

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 professional while earning college credit.

Spanish - See Language Studies

Spelling - See Study Skills

Student Leadership Development

For information, contact the Student Leadership Department, Bldg. 106, Rm. 206, 541.463.5337.

SLD 103 Post-Racial America: Challenges & 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, Latinos/Latinas, Native Americans and other underrepresented minority populations.

SLD 111 Chicano/Latino Leadership 1: Quien Soy? Quienes .................. 4 credits
This course will examine the diversity that resides within the
COURSE DESCRIPTIONS

CHICANO, MEXICAN, LATINO, HISPANIC AND CARIBBEAN CULTURAL EXPERIENCE

This course will provide a framework for understanding the ways in which distinctive social and cultural patterns arose, thus bringing awareness of the Chicano/Mexicano, Latino, Hispanic and Caribbean cultural heroes in school and community events. In addition, this course will explore the contributions and achievements of Chicano/Mexicano in the United States and identify socio-cultural processes that serve to highlight or diminish Chicano/Mexicano contributions and achievements. 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 112 Chicano/Latino Leadership: Cultural Heroes

This course will explore the concept of cultural heroes within the context of the Chicano/Latino experience. Students will identify socio-cultural processes that serve to highlight or diminish Chicano/Latino cultural heroes. The condition of Chicana/Latina in the United States and identify socio-cultural processes that serve to highlight or diminish Chicano/Latino contributions and achievements. 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 113 Chicano/Latino Leadership 3: Affirmation & Resilience

This course will examine the impact of La Leyenda Negra (The Black Legend), Manifest Destiny and negative images assigned to Spanish/Mexican and Latin culture in the United States and Latin America. In addition, this course will provide a critical examination of Chicano/Latino culture and its expression 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 culture produced 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, & Practice

This course is designed to examine the history, philosophy, key leadership strategies and practices of African American leaders. This course will focus on Leadership Theory, Foundations of AA Leadership and AA Leadership in Practice.

SLD 244 Native American Story Telling

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.

SLD 280 Co-op Ed: ASLCC

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

May be offered as a telecourse.

EL 113 Connections: Specific Study Skills

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 115 Effective Learning: Health Science Majors

This course is designed for health science 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 113W Connections: Specific Study Skills

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 115R Effective Learning

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.

RD 087 Preparatory Academic Reading

This course is designed for English language learners. Students will utilize reading strategies that will improve comprehension in reading such as reading for main idea, supporting detail, patterns of organization, and inference. Students will learn basic literary 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 for EL 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.
so that students will increase their English language proficiency and improve their reading skills.

**RD 121 Academic Literacy** 4 credits
This course teaches critical thinking, reading, and writing. Topics include strategies for reading and analyzing academic prose, the influence of experience, attitude, and belief on thinking processes, understanding the rhetorical dimensions of language; and methods of academic research as inquiry.

### 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
Students will learn basic sewing, costume rendering and execution of a design.

**TA 140 Acting Shakespeare** 3 credits
Students become “Shakespeare-friendly” through lectures and classroom activities. Introductory trainings include acting, vocal and physical skills. Actors receive personal coaching on contemporary approaches to performing Shakespeare.

**TA 141 Acting 1** 3 credits
Introduces the student to basic acting skills. Class exercises focus on increased self-awareness, observation skills, relaxation techniques, voice technique, 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 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 other improv techniques. This course develops creative energy and helps minimize inhibitions. It is beneficial for actors and professionals of all fields.

**TA 145 Improvisational Theatre 2** 3 credits
Previous improv experience required. Students study and practice contemporary improv techniques 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 many technical 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. Should be taken by participants in a theatrical production of this department scheduled for public performance.

**TA 164 Writing for the Theatre 1** 3 credits
This first sequence focuses on the essentials of playwriting. Students experience a series of exercises and listen to, read, and write pieces for live theater. Final course project is a completed ten-minute play that is ready for a full production.

**TA 227 Stage Makeup** 3 credits
Stage Makeup covers the history, purpose, 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 141. This course begins a three-term concentration on the problems of characterization. This course is recommended for those students transferring to schools requiring entrance auditions. Material varies from term to term and may include classical to contemporary theatrical literature.

**TA 242 Intermediate Acting** 3 credits
Prerequisite: TA 241. This course continues the concentration on the problems of characterization, focusing on acting for the camera. Students undertake roles in independent films made by local film makers.

**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.

**TA 272 Introduction to Theatre** 4 credits
Students will analyze theatrical literature, history, and contemporary production practices. Emphasis is placed on the value of theatre to society and the individual. May be offered online.

**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 practical 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.

### Tutoring

For information, contact Tutoring Services, Center Bldg./Rm. 210, 541.463.5783.

**ED 125 Tutor Training 1** 1 credits
Prerequisite: Employment as a tutor. This class is the first of three levels of College Reading and Learning Association’s (CRLA) certified tutor training. The content includes learning styles, communication, tutoring techniques, and problem solving. Students learn how to facilitate learning. The teaching format is interactive with tutors supplying their own answers and teaching each other. Upon completion, tutors achieve Regular/Level I certification from the College Reading and Learning Association (CRLA).

**ED 126 Tutor Certification - Advanced** 1 credits
Prerequisite: Continued employment as a tutor and completion of ED125. This class is designed for current LCC tutors with some experience. The content will deepen in the areas of learning styles, communication, and cultural competence as it relates to tutoring and life. The teaching format is interactive with tutors teaching and learning collaboratively. Upon completion, tutors achieve Advanced/Level II certification from the College Reading and Learning Association (CRLA).

**ED 127 Tutor Certification-Master Level** 1 credits
Prerequisite: Continued employment as a tutor and completion of ED 125 and ED 126. This is the third and final level of the College Reading and Learning Association’s (CRLA) certified tutor training. Tutors will gain skills in mentoring, teaching, leadership, and critical thinking. The teaching format allows tutors to individualize learning based on goals and needs through a project outside of class. Upon completion, tutors achieve Master/Level III certification from CRLA.

### Video Production - See Media Arts

### Vocabulary - See Writing

### Water Conservation

For information, contact the Science Division, Bldg. 16/Rm. 253, 541.463.3997.

**IDS 2805 Co-op Ed: Sustainability Coordinator** 3-12 credits
This internship course offers a work experience that integrates theory and practice in the field of sustainability. It provides opportunities
to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

**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. May be offered online.

**WATR 101 Introduction to Water Resources** .......................... 3 credits
This course provides a sociological perspective of topics including history and 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
The course provides an introduction to water conservation and watershed science technician fields, examining personal and global water issues. The class will define water as a critical concern of society at all levels. Students will investigate water employment opportunities through various sources.

**WATR 105 Water Conservation: Residential** .......................... 4 credits
This course focuses on residential water conservation and efficiency strategies. The course covers program development, water use, waste water, auditing, efficiency measures, alternative sources, and incentives as well as fixtures and appliances. Students participate in hands-on activities.

**WATR 202 Fostering Sustainable Practices** .......................... 3 credits
Study communication and collaboration skills that develop effective community sustainability programs. Learn techniques to overcome sustainable behavior barriers. Practice community initiatives through direct people contact, and learn how green industry practitioners encourage sustainable practices.

**WATR 206 Co-op Ed: Water Conservation Seminar** .......................... 2 credits
Students will increase their understanding of industry expectations as well as 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, their professional careers.

**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, soil moisture monitoring and irrigation laser leveling and other emerging technologies. The class includes field trips and hands-on experiences.

**WATR 209 Urban Agriculture and Water** .......................... 2 credits
Prerequisite: WATR 107 and WATR 208 This course extends knowledge introduced in WATR 208 & WATR 107 into the urban environment. Retrofitting for resilient food production in urban & suburban environments. Building of local infrastructure to support water stewardship in response for forecast climate changes. Integration of Outdoor Landscape with Agricultural Production.

**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, 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 class 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 with a focus on Low Impact Development strategies from constructed wetlands to swales to green roofs. Topics will include site analysis, flow management, and phyto-remedia tion. 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 water resource management. Focus on recent 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 work experience that integrates classroom theory with practical experience 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.

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**Watershed Science**

For information, contact the Science Division, Bldg. 16/Rm. 253, 541.463.3997.

**WST 102 Introduction to Watershed Field Methods** .......................... 2 credits
Co-Requisite: GS 101 or instructor consent. Introduction to field data collection, including site sketching, photo documentation; measuring direction, length, area and slope; species counts and plant cover quantification. Students learn procedures for permanent plot installation and how to protect data integrity.

**WST 205 Soils Fields Methods** .......................... 2 credits
Basic principles of experimental design, site and instrument selection for field research to study soil and slope physical and biological characteristics. Basic tools and data acquisition techniques are used in a variety of field settings. Field exercises on evenings and/or weekends combined with self-paced online learning.

**WST 206 Co-op Ed: Watershed Science Technician Seminar** .......................... 2 credits
Students will increase their understanding of industry expectations while developing job search tools and skills, including developing a meaningful resume. Students will learn and practice presenting themselves to employers in a competent and professional manner in preparation for an internship and, ultimately, a professional career.

**WST 221 Invasive Species Field Methods** .......................... 1 credits
Practical field experience using standard protocols to collect data on invasive species and their mitigation in a variety of natural systems. Field exercises on evenings and/or weekends combined with self-paced online learning.

**WST 222 Threatened and Endangered Species Field Methods** .......................... 1 credits
Practical field experience in monitoring the status of threatened and endangered species and assessing strategies to mitigate their loss. Field research exercises on evenings and/or weekends combined with self-paced online learning.

**WST 223 Prairies to Woodlands Field Methods** .......................... 2 credits
Practical field experience in collecting data on the condition of prairies, large forests, woodlands, and wetlands. Seminar includes discussion on species of concern including endangered, keystone, invasive, and indicator species. Field exercises on evenings and/or weekends combined with self-paced online learning.

**WST 224 Wetlands Field Methods** .......................... 2 credits
Practical field experience in monitoring biological, chemical and physical properties of wetlands. Includes plant communities and vegetation identification. Habitat assessment of stream-side plants, animals and macro-invertebrates. Field exercises on evenings and weekends combined with self-paced online learning.

**WST 225 Riparian Field Methods** .......................... 2 credits
Prerequisite: ENVS 183 or instructor consent. Introduction to basic skills needed to determine the functional status of riparian systems. Vegetation identification. Habitat assessment of stream-side plants, animals and macro-invertebrates. Field exercises on evenings and weekends combined with self-paced online learning.
WST 226 In-Stream Field Methods ........................................... 2 credits
Prerequisite: ENVS 183 or instructor consent. Introduction to protocols and procedures used in stream measurement and channel attributes, aquatic ecology and water quality. Emphasizes where, when and how to sample stream ecosystems. Field exercises on evenings and/or weekends combined with self-paced online learning.

WST 230 Watersheds and Hydrology ..................................... 4 credits
Prerequisite: ENVS 181 or ENVS 183 with grade of “C” or better. 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.

WST 234 Watershed Best Practices ....................................... 4 credits
Prerequisites: WST 225, WST 226, WST 230 and GIS 245. Corequisites: WST 221, WST 222 and WST 224. This capstone experience explores sustainable approaches to watersheds that will improve and maintain the integrity of water systems. Students combine watershed field skills and conceptual knowledge to produce a site proposal incorporating standard best management practices.

WST 280 Co-op Ed: Watershed Science Technician ......................... 1-12 credits
This internship course offers work experience that integrates classroom work with practical experience in the field of watershed science. It provides opportunities to develop skills, explore career options and network with professionals and employers while earning academic credit toward the degree.

Web - See Business and Computers: Introduction/Information Systems/Computer Science

Women in Transition

For information, contact the Gender and Equity Center, Bldg.1/Rm. 202, 541.463.5353.

CG 140T Career and Life Planning: WIT ....................................... 3 credits
Co-requisite: CG 220. This course is designed to help students in Women in Transition plan their careers and their lives. This course will explore: self-awareness, values, interests, skills, personality styles, available careers, careers that fit personal wants and needs, steps to pursuing career goals, how to make decisions, weigh options, and set goals.

CG 207 Life Transitions 2 ....................................................... 3 credits
Prerequisite: CG 220. This course 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 resilience and support systems, maintaining healthy relationships, and setting and attaining personal and academic goals. Class activities will stress practical and personal application of course information.

CG 210 Life Transitions 3 ....................................................... 3 credits
Prerequisite: CG 220. This course is focused on the concept of “life as a relationship to everything.” It is designed to assist students in their capacity to identify the enduring components of healthy attachment and relational connections that actively contribute to their well-being and ability to successfully achieve their educational goals. Topics include: attachment theory, the effects of trauma on relational capacity, relationship mapping and the exploration of relational narratives, multicultural, gender and historical perspectives on relationships, looking beyond family and intimate partnerships in defining relationships and creation of positive relational attachments at Lane Community College.

CG 220 Life Transitions: Women in Transition ............................. 4 credits
Co-requisite: CG 140T. This course is designed to help students in Women in Transition navigate their current life transitions and explore positive new life directions. Topics include: understanding life transitions, relationships, increasing self-esteem, coping with powerful emotions, developing healthy power and assertiveness.

PE 183U Strength Training for Women ..................................... 1 credits
Emphasis on resistance training using a variety of exercise modalities. Develop and assess strength, muscular size, muscle definition, toning and improve general physical condition. Safe and proper technique, routines, programs, nutrition and stress management concepts will be addressed.

Women’s Studies

For information, contact the Social Science Division, Center Bldg./Rm. 403, 541.463.5419.

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 multi-cultural 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.

E 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), as well as strategies for vocabulary acquisition and enrichment.

WR 087 English Grammar and Paragraph Writing ....................... 6 credits
Prerequisite: Placement by the LCC reading/writing test, instructor consent. The course integrates English grammar, paragraph writing, and readings. Students will develop their ability to write standard English sentences that demonstrate a mastery of grammatical concepts while learning about and using the writing process. Students will also demonstrate control and understanding of the writing process: generate and organize ideas, write drafts, revise and edit paragraphs. In addition, students will practice paragraph structures, development of ideas in a paragraph, and sentence editing and revision. Course activities may be enhanced through conferences, workshops, and/or online modules. May be offered online.

WR 093 College Writing for ELL Students .................................. 3 credits
Prerequisite: A passing grade in WR089 or WR090, a passing grade (C- or better) in English as a Second Language (ESL) College Transition Writing & Grammar F and College Transition Reading F and College Transition Listening & Speaking F, or placement by the LCC Accuplacer or Accuplacer ESL, or recommendation of the instructor. Corequisite: EL113. This course develops English language learners’ advanced competence in essay writing and prepares students 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 learn to recognize and correct grammatical errors in their writing. Students will also learn advanced grammatical concepts and produce essays that reflect that knowledge. Students will also use critical reading skills to analyze essays and improve their own writing. Students will submit papers using word processing software.
WR 097 Introduction to Essay Writing ........................................ 3 credits
Prerequisites: WR 080 or WR 087 or WR 089 or WR 090, or a passing grade (C- or better) in English as a Second Language (ESL) College Transition Writing & Grammar F and College Transition Reading. This course introduces students to essay writing and prepares students for WR 115. Students will be introduced to key rhetorical concepts and utilize these in a flexible and collaborative writing process, reflecting on their writing process with the goal of developing metacognitive awareness. They will employ conventions, including formal citations, appropriate for agiven writing task, attending to the constraints of audience, purpose, genre, and context. Students will write one to two drafts. They will produce 3000-3500 words of revised, final draft copy or an appropriate multimodal analog for this amount of text. If the focus is primarily multimodal, students will produce at least one essay of a minimum of 1500 words, demonstrating competence in both research and academic argumentation.

WR 115 Introduction to College Composition ............................ 4 credits
A passing grade in WR 93, WR 95, or WR 97, or an appropriate score on the placement exam. This course introduces students to the expectations of college-level reading, thinking, and writing. Students will be introduced to rhetorical concepts and engage in a collaborative writing process to produce projects for a variety of purposes and audiences, across more than one genre. Reading, writing, and critical thinking activities will focus on inquiry and the development of the metacognitive awareness of individuals as writers. Students will produce one formal essay of 700-800 words and a total of 2000-2500 words of revised, final draft copy over the term that incorporate source material and practice MLA citing and attribution conventions. Courses may include multimodal projects.

WR 115W Introduction to College Writing: Workplace Emphasis .................................................. 3 credits
Prerequisites: 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 115W introduces students to the expectations of college-level reading, thinking, and writing. Students will be introduced to rhetorical concepts and engage in a collaborative writing process to produce projects for a variety of purposes and audiences, across more than one genre. Reading, writing, and critical thinking activities will focus on inquiry and the development of the metacognitive awareness of individuals as writers. Students will produce a variety of assignments across multiple genres such as job letters, essays, technical reports, for a total of 2000-2500 words of revised, final draft copy over the term; at least one of the compositions will incorporate source material and practice attribution conventions. Courses may include multimodal projects. This course fulfills writing requirements for some Lane programs. Note: This three-credit writing course will not count as a prerequisite for WR 121.

WR 121 Academic Composition ........................................... 4 credits
Prerequisites: Appropriate scores on Lane’s Writing Placement Test or a passing grade (C- or better) in WR 115. This course focuses on rhetorical reading, thinking, and writing as means of inquiry. Students will gain an understanding of key rhetorical concepts and utilize these in a flexible and collaborative writing process, reflecting on their writing process with the goal of developing metacognitive awareness. They will employ conventions, including formal citations, appropriate for given writing task, attending to the constraints of audience, purpose, genre, and context. Students will write one to two drafts. They will produce 3000-3500 words of revised, final draft copy or an appropriate multimodal analog for this amount of text. If the focus is primarily multimodal, students will produce at least one essay that integrates research and demonstrates an understanding of the theoretical framework of an argument essay in an academic essay of at least 1000 words.

WR 121_H Academic Composition-Honors ......................... 4 credits
Prerequisites: Appropriate scores on Lane’s Writing Placement Test or a passing grade (C- or better) in WR 115. 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. 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 arguable position. Students will delve deeper into course topics and require a high level of student motivation; the pace may be faster than non-honors courses. The course also introduces students to skills in source analysis, documentation, and beginning research methods. May be offered online. This course also meets Lane Degree requirements that are fulfilled by the same course number without the _H.

WR 122 Argument, Research and Multimodal Composition ........................................... 4 credits
Prerequisites: A passing grade (C- or better) in WR 121, or a passing score on the English Department’s Waiver exam. This course continues the focus of WR 121. Students will be introduced to rhetorical concepts and the development of the metacognitive awareness of individuals as writers. Students will produce one formal essay of 700-800 words and a total of 2000-2500 words of revised, final draft copy over the term that incorporate source material and practice MLA citing and attribution conventions. This course introduces students to the expectations of college-level reading, thinking, and writing. Students will be introduced to rhetorical concepts and engage in a collaborative writing process to produce projects for a variety of purposes and audiences, across more than one genre. Reading, writing, and critical thinking activities will focus on inquiry and the development of the metacognitive awareness of individuals as writers. Students will produce one formal essay of 700-800 words and a total of 2000-2500 words of revised, final draft copy over the term that incorporate source material and practice MLA citing and attribution conventions. Courses may include multimodal projects. This course fulfills writing requirements for some Lane programs. Note: This three-credit writing course will not count as a prerequisite for WR 121.

WR 122_H Argument, Research and Multimodal Composition-Honors .................................. 4 credits
Prerequisites: 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. This course introduces students to the expectations of college-level reading, thinking, and writing. Students will be introduced to rhetorical concepts and engage in a collaborative writing process to produce projects for a variety of purposes and audiences, across more than one genre. Reading, writing, and critical thinking activities will focus on inquiry and the development of the metacognitive awareness of individuals as writers. Students will produce one formal essay of 700-800 words and a total of 2000-2500 words of revised, final draft copy over the term that incorporate source material and practice MLA citing and attribution conventions. Courses may include multimodal projects. This course fulfills writing requirements for some Lane programs. Note: This three-credit writing course will not count as a prerequisite for WR 121.

WR 227 Technical Writing .................................................... 4 credits
Prerequisites: A passing grade (C- or better) in WR 122. This transfer course emphasizes forms of writing demanded in the workplace. While addressing issues like evaluation of materials and audiences, sources of information, organization, design, and visual aids, the projects include letters, informal reports, descriptions, instructions, and proposals. May be offered online.

WR 227_H Technical Writing-Honors .................................. 4 credits
Prerequisites: A passing grade (C- or better) in WR 122. 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. This course introduces students to the expectations of college-level reading, thinking, and writing. Students will be introduced to rhetorical concepts and engage in a collaborative writing process to produce projects for a variety of purposes and audiences, across more than one genre. Reading, writing, and critical thinking activities will focus on inquiry and the development of the metacognitive awareness of individuals as writers. Students will produce one formal essay of 700-800 words and a total of 2000-2500 words of revised, final draft copy or an appropriate multimodal analog for this amount of text. If the focus is primarily multimodal, students will produce at least one essay of a minimum of 1500 words, demonstrating competence in both research and academic argumentation.

WR 240 Creative Nonfiction .................................................. 4 credits
Prerequisites: 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 the genre of Creative Nonfiction. Students will learn the conventions and techniques of creative nonfiction through guided writing projects. Students will learn strategies for developing narrative, backstory, pacing, and characterization by reading the work of other students and published authors, whose work will serve as models. The reading assignments will include 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. Writing 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 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. Writing 242 is a course in writing poetry. The course will help students: 1) learn the elements of poetry; 2) read poems by well-known poets; 3) develop ability in poetic composition; 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.

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 the Academic and Student Services section in this catalog.

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 the Tuition, Fees, Financial Aid, and Payment section in this catalog.

Continuing Education
Continuing Education 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.

Continuing Education 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. A few of the current noncredit technical trainings available through Continuing Education are described in this catalog, Continuing 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 list of course offerings and registration information is included in the Continuing Education Class Schedule, mailed each quarter to area residents. The Continuing Education Class Schedule also is available on the main campus, at the Downtown Campus, at the Cottage Grove center, and at lanecc.edu prior to the beginning of each term.

Tuition and fees for noncredit classes are published in the Continuing Education Class Schedule and on the web class schedule. Instructors have expertise in the subjects they teach. People interested in teaching an Continuing Education course may contact a coordinator at the Continuing Education office at the Downtown Campus or call 541.463.6100.

Continuing Education’s Accreditations, Certificates and Affiliations
- Alcohol Servers Permit, certified by the Oregon Liquor Control Commission
- Community Health Worker Certification, approved by Oregon Health Authority
- Flaggers Permit, credential through Oregon Department of Transportation
- Licensed Massage Therapists, approved by Oregon Board of Massage Therapists
- Nursing Assistant I authorized testing center, Headmaster approved
- Nursing Assistant I and II Certification, approved training by Oregon State Board of Nursing
- Pharmacy Technician Certification, Pharmacy Technician Certification Board
- Phlebotomy Certification, American Society of Clinical Pathology
- Real Estate Broker and Property Management License, approved by the Oregon Real Estate Agency

Continuing Education Career Training

Community Health Worker Certification Training
The Community Health Worker will play an increasing important role in helping Oregon’s healthcare system. The Community Health Worker is at the forefront in advocating for, engaging and coaching patients to improve long-term health behaviors and increase rates at which patients follow treatment protocols.

The Community Health Worker certification training will be a supplemental certification for incumbent healthcare workers in established jobs that are similar to, though differentiated from, Community Health Workers, such as Homecare Worker, Certified Nursing Assistants, Licensed Practical Nurse, Medical Assistant, Paramedic or Physical Therapy Assistants.

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.

Massage Therapy Pre-licensure
This training is designed to prepare students to sit for the Oregon State Board of Massage Therapists Licensing Exams and has been approved by the Oregon Board of Massage Therapists. The training 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. 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 Department

The English as a Second Language (ESL) Department provides instruction for adult non-native English speakers seeking to improve their oral and written communication skills for work, community involvement, academic, or personal goals. Courses are designed to help students with everyday communication, as well as with the transition to work or to other training and/or academic programs, including credit and noncredit programs in community colleges or universities.

This noncredit program enrolls resident and international students from all over the world. All classes are culturally diverse, and all instruction is conducted exclusively in English. There is no minimum skill level to enroll in ESL classes. This program provides instruction at various levels, with classes that focus on grammar, reading, writing, and oral communication skills. Daytime classes are offered at the Main Campus four or five days a week, while evening classes are offered at the Downtown Campus two days a week.

Admissions Students who reside permanently in the U.S. are admitted directly through the ESL Department office. The admissions process begins with an enrollment meeting in the ESL office, which students can schedule in person or by phone.

International students on a visa are admitted through the International Programs student orientation. Upon completion of placement exams, students are registered for recommended levels.

For more information, contact the ESL Department office at 541.463.5253.

Locations
Main Campus
4000 East 30th Ave, Building 11, Room 201
Eugene, OR 97405

Downtown Campus
101 West 10th Ave., Room 203
Eugene, OR 97401

Programs

Intensive English Program (Main Campus) The Intensive English Program (IEP) is a full-time English study program offered during the day Monday-Friday. It is divided into six proficiency levels and is designed to serve all non-native English speakers from absolute beginners with basic literacy, vocabulary, and pronunciation needs to advanced learners preparing to enter higher-level academic programs. The levels (A-F) are further subdivided by skill type (reading, listening, speaking, and writing/grammar), and each level is designed to prepare students for success in the subsequent level after one term of study. Students who successfully complete (C- or better) all skill classes in Level F are automatically eligible for entry into the LCC credit program. Each level in the IEP is represented by 2-3 courses that constitute 20 hours of class time per week.

<table>
<thead>
<tr>
<th>Level</th>
<th>Class Title</th>
<th>Class focus</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Basic Combined Skills</td>
<td>Students learn to practice new vocabulary in writing and speaking, increase listening and reading skills and strategies, and recognize and pronounce the most common English words.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Reading and Writing</td>
<td>Students learn to write basic sentences with grammatical accuracy, fill out forms, practice new vocabulary in writing, and increase reading skills and strategies.</td>
<td>10</td>
</tr>
<tr>
<td>B</td>
<td>Writing and Grammar</td>
<td>Students learn to write well-organized informational paragraphs with basic sentences, improve spelling and grammatical accuracy, and practice new vocabulary in writing.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Reading and Oral Skills</td>
<td>Students learn to recognize and pronounce common academic English words and develop vocabulary. Students also read informational texts for fluency and comprehension.</td>
<td>10</td>
</tr>
<tr>
<td>C</td>
<td>Writing and Grammar</td>
<td>Students learn to write well-developed, evidence-based narrative and informative paragraphs, improve spelling and grammatical accuracy, and practice new vocabulary in writing.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Reading and Oral Skills</td>
<td>Students learn to comprehend and use academic vocabulary. Students also read moderately complex informational texts for fluency and comprehension.</td>
<td>10</td>
</tr>
<tr>
<td>D</td>
<td>Writing and Grammar</td>
<td>Students learn to write paragraphs and short essays on basic processes and problem solving in community and academic contexts using new vocabulary.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Reading and Oral Skills</td>
<td>Students learn to develop and pronounce more advanced phrasal and academic vocabulary. Students also read moderately complex academic and informational texts for fluency and comprehension.</td>
<td>10</td>
</tr>
<tr>
<td>E</td>
<td>Writing and Grammar</td>
<td>Students learn to write evidence-based cause-effect and comparison-contrast essays and practice new vocabulary in writing.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Reading</td>
<td>Students learn strategies for reading and understanding academic texts more effectively, develop academic vocabulary, and increase reading speed.</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Listening and Speaking</td>
<td>Students develop accuracy and organization in spoken English and increase listening skills in a variety of academic contexts.</td>
<td>5</td>
</tr>
<tr>
<td>F</td>
<td>Writing and Grammar</td>
<td>Students learn to recognize errors in writing; write with the composition skills, appropriate rhetoric, fluency, and vocabulary necessary to communicate authentic academic writing tasks; use various research tools; and cite research in an academic context.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Reading</td>
<td>Students learn to effectively read and understand complex academic texts, develop vocabulary, and increase reading fluency.</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Listening and Speaking</td>
<td>Students develop an advanced level of accuracy and organization in spoken English and increase comprehensive listening skills in a variety of academic contexts.</td>
<td>5</td>
</tr>
</tbody>
</table>
Community English Program (Downtown Campus) The Community English Program (CEP) is a part-time English study program offered on Monday and Wednesday evenings. It is divided into six combined-skills proficiency levels and two literacy skills classes and is designed to serve non-native English speakers seeking more community involvement through English skills and ranging from absolute beginners to community members preparing to enter Adult Basic Skills courses, the Intensive English Program, or vocational training. The main levels (0-5) integrate all language skills (reading, listening, speaking, writing/grammar), and each level is designed to prepare students for success in the subsequent level after three terms of study. The literacy classes focus only on developing reading and writing skills and are not part of the sequential combined skills portion of the program. Each level in the CEP consists of one course per term that constitutes 5 hours of class time every week.

<table>
<thead>
<tr>
<th>Level</th>
<th>Class Focus</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Students learn to communicate in situations related to immediate needs, simple oral communication, read and write letters and numbers, and recognize a limited number of basic words and phrases related to immediate needs.</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>Students learn to communicate in situations related to immediate needs, use basic phrases and sentences, and improve basic vocabulary about personal information.</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>Students learn to speak and write basic sentences in present tense and begin to communicate about the past, and develop basic vocabulary about community life.</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Students develop basic conversational skills, learn to read and write vocabulary related to personal interests and some high-frequency academic words, and begin to implement paragraph structure in writing.</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>Students learn to speak and write extended explanations with compound and complex sentences; develop more advanced vocabulary; revise and edit writing; develop phrasal vocabulary; and recognize and use present, past, and future tenses; and develop civics knowledge.</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>Students learn to write narrative and informational paragraph styles using a variety of verb tenses, understand and use everyday and academic vocabulary, and develop civics knowledge.</td>
<td>5</td>
</tr>
<tr>
<td>Fundamentals of Literacy</td>
<td>Students learn to develop reading and writing skills to match their higher-level oral skills in order to prepare to enter combined skills levels 1-3.</td>
<td>5</td>
</tr>
<tr>
<td>Elements of Literacy</td>
<td>Students learn to develop reading and writing skills to match their higher-level oral skills in order to prepare to enter combined skills levels 2-4.</td>
<td>5</td>
</tr>
</tbody>
</table>

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, have a referral from the local public school district if 16 or 17 years of age, or have 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 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, Center for Accessible Resources, and the Multicultural Center. For complete information about these resources, see the Academic and Student Services section in this catalog.

Registration, Costs and Payment Methods To learn about registration, costs and payment methods for Adult Basic and Secondary Education, consult the department website at lanecc.edu/abse 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 four test areas: social studies, science, language arts, 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 Classes
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
Community Services

CENTER for Meeting and Learning
Now offering two event venue locations to serve campus, community and regional events of all types! CENTER at Main Campus offers 10+ breakout rooms and a versatile banquet/ballroom dividable into three separate rooms or used as one large event space for seating up to 600. CENTER at Downtown Campus offers a newly built LEED Platinum Certified event space with a banquet/ballroom dividable into three separate rooms or used as one large space for seating up to 200. Both locations have extensive Audio Visual equipment options and complimentary wifi throughout. The CENTER offers full service catering at either location with a focus on sustainable practices, menu customization, dietary accommodations, and use of local, seasonal ingredients harvested seasonally from our on-site Learning Garden. 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. For information about catered events, see Lane Catering.

Call 541.463.3500 or visit lanecc.edu/center to schedule your events.

Community Center for Family Counseling
Counseling and Continuing Education at Lane sponsor the Community Center for Family Counseling, informally known as Saturday Circus. Email Laura Jones at jonesl@lanecc.edu.

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 noncredit class (CG 212) 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.

A credit class is also available. 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.

English As A Second Language  See page 260.

KLCC-FM Radio  klcc.org
KLCC 89.7 FM, NPR for Oregonians, is a listener-supported public radio station licensed to Lane Community College serving over 88,000 people in the Eugene/Springfield area and western and central Oregon each week. KLCC provides NPR news, local and regional news, plus talk and entertainment. Weekends offer a wide world of intelligent music including jazz, folk, blues, world beat and Americana.

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 NPR and consistently ranks among the top five public stations in the country for market impact.

Family Connections
Family Connections is a community-based child care resource. For more information, see the Academic and Student Services section in this catalog.

Lane Catering
Experience “culinary excellence” when booking your catered events with Lane Catering. Lane Catering offers full catering services delivered anywhere in Eugene/Springfield and surrounding areas with a focus on sustainable practices, menu customization, and use of local, seasonal ingredients harvested seasonally from our on-site Learning Garden. Culinary Arts and Hospitality Management students have the opportunity to work side by side with Lane Catering’s professional staff in a learning lab environment. We welcome and specialize in accommodating all dietary requirements. Call 541.463.3500 or visit lanecc.edu/catering to schedule your catering.

Library
The Library provides resources for students, faculty, staff, and community residents. For more information, see the Academic and Student Services section in this catalog.

Music, Dance and Theatre Arts
The department presents concerts and performances available to the community. For information, see the Academic and Student Services section in this catalog.

Specialized Support Services
Specialized Support Services (S3) provides vocational training and employment supports to adult students who experience intellectual and developmental disabilities and have intensive support needs. S3 offers individual and small group instruction and experiential learning opportunities that address social skill development, on-the-job training, and employability skill enhancement in integrated settings with competitive employment as a goal. Supported employment and retention services also are available.

Work experience opportunities are provided through inter-department agreements throughout the college that include recycling, waste management, custodial and housekeeping, confidential shredding and food services.

Contact 541.463.5101 or visit lanecc.edu/sss for more information.

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 20+ agencies throughout rural and urban Lane County, Companions provide visits and transportation to hundreds of 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, some reimbursement for meals and mileage, 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 541.463.8260 or visit lanecc.edu/scp. (The Senior Companion Program does not link Companions with clients directly. Please contact Senior & Disabled Services at 541.882.3353 if you would like to receive the services of a Senior Companion.)
Business and Workforce Development

Small Business Development Center
The Lane Small Business Development Center (Lane SBDC) offers a multitude of support services for small businesses, from start-up to established, from small to medium, with 1-500 employees and up to 25 million in sales. As the premier provider of real world business education, advising and mentoring for small businesses in Lane County, we are helping to increase employment and revenue growth in our communities.

Our services include: Small Business Management programs, entrepreneurial workshops and confidential, no-cost business advising. We also provide resources for every stage of business growth—from hire to acquire and everything in between.

The Center, founded in 1992, is a member of the Oregon Small Business Development Center Network and is actively involved in economic development in Lane County. The Lane SBDC is also a member of the Association of Small Business Development Centers.

The Lane SBDC is located at the LCC Downtown Campus at 101 West 10th Avenue, Ste. 304, Eugene. Business hours are from 9 am to 5 pm, Monday-Friday • Phone number is 541.463.6200 • Website is LaneSBDC.com • Facebook is facebook.com/LaneSBDC • LinkedIn In is Lane Small Business Development Center.

Whether your business has been in existence for a hundred years, or is just starting out, the Lane SBDC has the specialized tools and the right expertise to help you find success.

SBDC Management Programs
It’s Our Business to Help Grow Lane County’s Small Businesses.

Small Business Management (SBM) Programs
The Small Business Management Programs are the cornerstone of the multiple support services offered by the Lane SBDC to both new and existing businesses. These programs help to build businesses by introducing and then reinforcing key concepts over a period of time. Clients learn with a cohort of peers, customized classes and one-on-one coaching, while getting the support, tools and resources necessary for immediate results.

SBM Year One • Foundations
The SBM Year-one cohort meets for 15 classes over nine months during the year. Personalized one-on-one coaching throughout the year is also included. SBM Foundations consists of the following three modules:

• Marketing: This module delivers results. Learn to jump start your business through marketing. Create solid marketing ideas and a plan of action that will improve sales and grow your business.
• Financial: Lead your company to a successful financial future. Build knowledge and gain necessary skills to examine and understand business financials.
• Operations: Focus on core operations to create a successful enterprise. Develop a short-term plan to manage employee workflow and also learn to create future growth models for long-term planning. Explore the legalities of operating a business.

SBM Year Two • Systems
Focus on growing your business through understanding, creating and implementing systems within your business. With solid systems and processes in place, owners can choose to work or choose not to. The year two cohort meets for a series of 10 classes over a 10-month period. 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 • Class Customized Topics.

SBM Year Three • Employee Management
Year three is designed for business owners who have completed years one and two of the SBM program. Business owners work on mastering earlier concepts, while using new materials to fine-tune operations. Upon completion of year three, qualified business owners will receive a certificate of recognition. The year-three cohort meets for a series of 10 classes over a 10-month period. Class topics include: Personality Profiles and Management - DISC Assessment • Facilitation and Brainstorming • Effective One-On-Ones • Effective Feedback and Coaching • Employee Reviews and Development • Interviewing and Employee Retention • Employment Law • Job Descriptions and Delegation • Leadership/Ethics • Class Customized Topics.

Small Business Management (SBM) • Alumni
This ongoing education and support program embraces the whole lifelong learning notion that is the foundation of the Small Business Management (SBM) program. Open to graduates of the three-year SBM program, Alumni members can drop into any current SBM cohort, get additional one-on-one business coaching, plus attend the Alumni-only “Lunch and Learn” meetings. This is the best way for SBM graduates to keep their skills fresh, their contacts growing and their businesses on the right path.

Employee Management
Also offered as a stand-alone program, Employee Management is designed for business owners, employees or managers in larger organizations who want to improve their skills interacting with employees and for those who want to work on mastering employee management concepts. This program is also part of the SBM year-three cohort and meets for a series of 10 classes over a 10-month period. Class topics include: Personality Profiles and Management–DISC Assessment • Facilitation and Brainstorming • Effective One-On-Ones • Effective Feedback and Coaching • Employee Reviews and Development • Interviewing and Employee Retention • Employment Law • Job Descriptions and Delegation • Leadership/Ethics • Class Customized Topics.

Food and Beverage Module-Small Business Management (FSBM)
This module is a branch of the Small Business Management Program and has everything you need to know about operating a food and beverage small business. It covers business planning, food cost control and menu management.

If you have ever wondered whether your food and beverage business could run more efficiently, then this module was designed for you. Here you will identify priorities, focus on your strengths and implement solutions, all while learning what factors will have the greatest impact on your ability to prosper.

Services and Training for Businesses at Every Stage

Ready, Set, Start Your Business
SBDC offers New Client Orientation, which provides an overview of SBDC services in order to help clients decide which services, tools and resources are the best fit for immediate and long-term
business goals. A one-hour session qualifies clients for no-cost business advising and identifies which SBDC business advisors will best serve them. Workshop elements are: Basic Resources • Events, Classes and Workshops • No-cost Advice • Small Business Management Programs • Local Resources and Agencies in Partnership with the Lane SBDC

Workshops and Classes for Businesses
Investing in ongoing entrepreneurial training is vital to long-term business success. Consider your refined business skills as your most valuable asset. Stay current on industry trends and regulations while learning how to respond to changes in your market. Each term provides a variety of in-depth classes and workshops conducted at varying times throughout the day and evening. Visit LaneSBDC.com for details and to register. Class topics are: Business Planning and Development • Communications and Leadership • Contractors Certification • Market Research, Marketing and Social Media • QuickBooks Concepts for Business • Record-keeping and Payroll Processing.

Scale Oregon
The Oregon Small Business Development Center Network (OSBDCN) has assembled teams of highly experienced business advisors to assess your current business and provide the tools to create sustained growth. Eligible companies can receive the following services to help accelerate their growth: Strategic Needs Assessment • Advanced Market Research and Analysis • Digital Media Assistance • CEO Networking and Mentoring. Additional services include: Financial Analysis • Debt and Equity Financing Assistance • Export Assistance • Government Contracting Assistance. SCALE Oregon targets companies that have achieved success, need strategic resources to reach the next level and meet the following criteria: Oregon Traded-sector Company • $1,000,000 to $50,000,000 Annual Gross Sales • 10-99 Employees • Demonstrated Growth in Gross Sales, Net Profit or Net Employment in Three of the Last Five Years.

No-Cost Business Advising
We offer access to confidential, no-cost professional business advising for Lane County residents who want to start or grow their business. Our business advisors have the knowledge and tools to help start up, emerging and growing businesses. Business Advising is provided by appointment only.

Our advising expertise focuses on areas that are vital to accelerating the growth of businesses such as:
Strategic Market Research • Business and Strategic Plan Development • Market and Revenue Growth Strategy Development and Implementation • Capital Access and Loan Packaging • Financial Analysis and Assessment • Accounting Systems and Financial Literacy • Feasibility Analysis and Start-up Assistance • Marketing and Branding • Technology Improvement • Digital Marketing and Social Media • Website Development and Search Engine Optimization

Resources and Tools
As our client, you will gain access to powerful research tools and insights that are often reserved for much larger companies due to their prohibitive cost. You can utilize numerous valuable resources and tools to assist new and existing business in reaching their goals, such as: Online Resources • SBA Supplied Information and Resources Oregon State Information on Doing Business In Oregon • Construction Contractors Board Self Study Guide • Local Resources and Agencies in Partnership with SBDC.

The Lane SBDC Team
We are a team of highly experienced professionals and business advisors who have developed expertise in Government Contracting and Procurement • International Business Development and Trade • Online Marketing, Social Media • Web Development • Finance and Access to Capital • Business Operations • Marketing, Branding and Communications and much more!

Find out more about our advisors and instructors on lanesbdc.com/about-us/.

Customized Training Department (CT)
Lane Customized Training (CT) Department is a training resource for Lane County employers of all sizes and industries. We provide innovative and cost-effective training options and consultation for local employers. Our large pool of expert instructors provides engaging and relevant content that can be immediately applied.

Investing in your employees and management team can:
• Improve team performance
• Increase revenue
• Improve operations

Training Provider for Lane County Employees With over 30 years of experience developing Lane County business, Lane Community College has an excellent reputation in the community and provides the best value you can find in a training provider.

A full range of cost-effective training options are available to you:
• Contract training customized to your organization
• Conflict resolution coaching and consulting
• Combined employer training (industry specific)
• One-on-one coaching
• Curriculum development and instructional design
• Business efficiency consultation
• Professional development classes offered at the downtown campus
• Organizational development consultation

Contract Training When you outsource your training with us, we provide:
• Free initial consultation to assess the specific needs of your company
• Administrative support—we order the books, print the manuals, handle billing
• Evaluation tools to ensure objectives and performance outcomes are met
Liberty Espresso owner Caroline Bruno-Hibler credits the Lane Small Business Development Center with helping to prepare to purchase the drive-through coffee kiosk at 1380 W. 7th Ave. in SW Eugene last spring. She said Lane SBDC advisor Larry Reed was very helpful when she was creating estimates and financial projections for buying the business. “Larry helped me crunch numbers, read financial books and made sure I fully understood the business I was purchasing.” Caroline sees herself as more hands on than the previous owner, which has improved her sales, because she is often at the business greeting customers.
Governance and Staff

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.

Melanie Muenzer, associate vice president, Eugene, appointed April 2017, term expires June 30, 2017
Zone 1 – Western part of college district

Susie Johnston, retired, Eugene, elected May 2005, re-elected May 2009, re-elected May 2015, term expires June 30, 2019
Zone 2 – Northern part of college district

Mike Eyster, retired higher education administrator, elected May 2017, term expires June 30, 2021
Zone 3 – Marcola and Springfield part of college district

Matt Keating, Political Consultant, Eugene, elected May 2013, re-elected May 2017 term expires June 30, 2021
Zone 4 – Eastern part of college district

Philip Carrasco, community organizer, Eugene, elected May 2015, term expires June 30, 2019
Zone 5 – Eastern part of college district

Rosie Pryor, retired marketing and strategy officer, elected May 2011, re-elected May 2015, term expires June 30, 2019
At-Large – Position 6

Tony McCown, education consultant, Eugene, elected May 2007, re-elected May 2011, re-elected May 2015, term expires June 30, 2019
At-Large – Position 7

Note: The results of the May 2017 election were not available at the time of publication.

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.

• Margaret Hamilton, President; Ph.D. Widener Univ.; M.S. Univ. of Delaware; B.S. State Univ. of New York
• Dawn DeWolf, Interim Vice President, Academic and Student Affairs; M.Ed. Oregon State Univ.; B.S. Eastern Montana College
• Kerry Levett, Executive Dean, Student Affairs; Ph.D. Arizona State Univ.; M.A. Univ. of Colorado; B.A. Westminster College
• Jennifer Frei, Executive Dean, Academic Affairs – School of Arts and Sciences; Ph.D. Univ. of California Davis; M.A. California State Univ. Sacramento; B.A. Univ. of California Davis
• Brian Kelly, Vice President of College Services; M.B.A. Marylhurst Univ.; B.A. Southern Illinois Univ.
• Dennis Carr, Chief Human Resource Officer; M.S.I.R. Univ. of Oregon; B.S. Hiram College
• Bill Schuetz, Chief Information Officer; 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:

• Jerome Colonna, Bend
• Kimberly Howard, Portland
• Charles Martinez Jr, Eugene

State Department of Education administration includes:

• Patrick Crane, Director, Department of Community Colleges and Workforce Development
• Salam Noor, Deputy Superintendent of Public Instruction

Lane Community College Budget Committee
The Budget Committee analyzes the administration’s annual budget proposal. The 2015-2016 Budget Committee includes the Board of Education and the following members:

• Jeffrey Farm, term expires 2017, retired Parks and Recreation Manager, Florence
• Hillary Kittleson, term expires 2019, retired finance director, Eugene
• Kevin Matthews, term expires 2018, CEO Artifice, Dexter
• Timothy Morris, term expires 2018, receptionist, Eugene
• Jason Ormsby, term expires 2017, science educator, Eugene
• Rudy Venturi, term expires 2018, Security Architect, Eugene

Advisory Committees
More than 700 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 work practices and employment opportunities.

All of the college’s career technical programs, as well as many noncredit programs, have advisory committees. The college also has advisory committees for programs and services such as English as a Second Language and Small Business Development.

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 the Cooperative Education Division.

Lane Community College Foundation
The Lane Community College Foundation raises and invests funds for scholarships, programs and capital needs.

Program and Capital 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 35,000 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 E. 30th Avenue, Eugene, OR 97405. Call 541.463.5135 for more information on how you can help. If you are interested in applying for a scholarship, visit lanecc.edu/foundation.

Staff
For fall term 2016, Lane employed 913 contracted faculty and staff and part-time credit faculty. A list of contracted and part-time instructional staff follows.
Full-Time Instructional Staff

Academic Learning Skills
Matthews, Grant J. Dean; M.P.A. Portland State Univ.
Coleman, Liz E. B.A. Univ. of Oregon; M.Ed. Oregon State Univ.
Gayle-Reddoor, Susan C. B.A. Univ. Calif Riverside; M.A. Univ. Calif Riverside
McQuiddy, Stephen J. B.A. Univ. of Oregon; M.F.A. Univ. of Oregon
Mitchell, Adrienne C. B.A. Univ. of Oregon; M.A. Univ. of Oregon; M.Ed. Univ. of Oregon
Pray, Elaine V. A.A. Canada Col.; B.A. San Francisco State Univ.; M.A. San Diego State Univ.

Adult Basic and Secondary Education
Matthews, Grant J. Dean; M.P.A. Portland State Univ.
Gaudia, Amy B.S. Buffalo State Ctg (Suni); B.S. Univ. of Oregon; M.A. Pacific Univ.
Hemsoth, Gail L. B.A. Heidelberg Col.; M.S. Univ. of Oregon
Jackson, Patricia J. B.A. Washington State Univ.; M.Ed. Oregon State Univ.
Kent, Leonora T. B.A. San Francisco State Univ.; M.Ed. Univ. of Oregon; Elem Education Teaching Cert; Teaching Engl Speakr Othr Lang
Lamoreaux, Alice A. B.A. Univ. of Oregon; M.S. Univ. of Oregon
Niles, Alicia M. B.A. Sch For International Trng; M.A. Univ. of Oregon; Teaching Engl Speakr Othr Lang
Pfaff, Julie A. B.S. Marquette Univ.; M.Ed. Univ. of Oregon
Young, James K. B.A. Rice Univ.

Advanced Technology Division
O’Connor, Patrick Dean; B.A. Univ. of California, Irvine; M.A. Univ. of Idaho; Ph.D. Univ. of Oregon
Bridges, Jon H. B.A. St Marys Col. Ca; M.Ed. Northwest Christian Univ.; USAF Flight Engineer GE/C130; FAA Private Pilot Single Land
Keen, Leonard R. Journeyman; OR Carpenter Apprenticeship
Lasky, Allen L. A.S. Lane Community Col.; AWS Cert Welding Educator; AWS Cert Welding Instructor; AWS Certified Welder; Cert Prod and Mgmt; ASME Certified Welder
Mathers, Kelly D. ASE Cert Master Auto Tech; ASE Cert Master
O’Herron II, Phillip J. B.A. Lindenwood Univ.; B.S. Lindenwood Univ.
Riordon, Egan A. A.A. Lane Community Col.; ASE Cert Master

Information reflects Human Resource records as of April 2017

Aviation Academy
Boulton, Stephen A. Dean; M.Div. Emmanuel School of Religion
Gallagher, Neal J. B.A. Albertus Magnus Col.
Gustafson, Bruce L. B.A. Univ. of Oregon; FAA Flight Instructor, CFII; FAA Transp Pilot Multi Land; FAA Instructor Single Engine; FAA Ground Instructor; FAA MEI (Multiengine Instructor); FAA Transp Pilot Single Land
Kaefferenry, Jeremy P. B.S. Coll Ozarks; FAA Airframe and Powerplant; FAA Ground Instructor; FAA MEI Ground Instructor Advanced
Lancaster, Paul L. B.A. Wheaton Col. Il; M.A. George Fox Univ.

Business
Christopher Rehn Dean; B.A. Frankline and Marshall College; M.B.A. Eastern College; Juris Doctor Cornell Univ. Law School
Boozar, 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
Gillett, Jill A. B.A. Univ. of Oregon; M.A. Oregon State Univ.
Johnson, LuAnne M.

Computer Information Technology
Christopher Rehn Dean; B.A. Frankline and Marshall College; M.B.A. Eastern College; Juris Doctor Cornell Univ. Law School

Arts Division
Lubben Richard Dean; B.A. California State Univ., Sacramento; M.F.A. Instituto Allende, San Miguel de Allende in Mexico
Bird, JS S. B.S. Col. St Rose; M.F.A. Univ. Mass Amherst; M.A. Suny Col.I Oswego
Grosowsky, Adam B. B.A. Evergreen State Col.; M.F.A. Univ. Iowa; M.A. Univ. Iowa
Hughes, Teresa B. B.S. Univ. of Oregon
Imonen, Lee C. B.A. Willamette Univ.; B.A. Willamette Univ.; M.F.A. Univ. of Oregon
Keene, Meredith A. A.A. Orange Coast Col.; A.A.S. Lane Community Col.
Lowdermilk, Susan K. B.F.A. Colorado State Univ. Ft Collins; M.F.A. Univ. of Oregon
Salzman, Andreas C. B.S. Univ. Wisc Stevens Point; M.F.A. Univ. Minnesota Minneapolis

Cooperative Education
King, Al Dean; B.S. Indiana Univ. Bloomington; M.S. Indiana Univ. Bloomington
Fike, Charles E. B.A. Northwest Christian Univ.
Kelsch, Jamie L. A.A.S. Lane Community Col.; A.G.S. Lane Community Col.; B.S. Linfield Col.
Landy, Beth S. B.S. Cal Poly - San Luis Obispo; M.S. Univ. of Oregon; National Certified Counselor
Meenaghan, Gerald T. B.A. Univ. of Oregon; M.S. Kansas St Univ. Manhattan

Counseling
De Leon, Jerry F. Dean; B.A. Univ. Colorado Boulder; M.A. Adams State Col.
Alvarado, Jessica S. A.A.S. Lane Community Col.; A.A.S. Portland Community Col.; B.S. Univ. of Oregon; M.S. Univ. of Oregon
Hampton, Anthony A.A. Chabot Col.; B.A. Univ. Texas Pan American; M.Ed. Univ. Texas Pan American
Harris, Mark C. B.A. Sonoma State Univ.; M.A. Sonoma State Univ.
Litty, Carolyn L. B.S. Univ. Calif San Francisco; M.S.N. Univ. Calif San Francisco; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon; Cert Licensed Prof Counselor; Psychiatric/Ment Health N Prac; National Certified Counselor; Marriage and Family Therapist; Mental Health Nurse
Perez-Jefferis, Consuela E. B.A. Univ. of Oregon; M.S.W. Portland State Univ.
Ship, Susan H. B.A. Univ. of Colorado, Boulder; M.A., Univ. of Colorado, Denver
Siegfried, Jill B.A. Wittenberg Univ.; M.S. Oregon State Univ.
Solomon, Marva D. B.A. Cuny Queens Col.; M.S.W. Cuny Hunter Col.
Soriano, Leslie C. M.S. Calif St Univ. East Bay

Culinary Arts and Hospitality
Kline, Mat Dean; M.B.A. South Univ. Savannah Georgia; C.C.E. American Culinary Federation; C.C.E. American Culinary Federation
Benson, Lisa Benson S. B.S. New Mexico St Univ. Univ. Park; M.A. Coll Santa Fe; Ph.D. Univ. of Idaho
English as a Second Language
Gates-Tapia, Anna Dean; B.A. Univ. of Calif.; B.A. Univ. of Calif.; M.S. Nova Southeastern Univ.; Certificate Univ. of Calif. Irvine
Bakshi, Indira M. B.S. Purdue Univ. West Lafayette; M.A. Univ. of Texas - Austin
Henninger-Willey, Tracy L. B.A. Northwestern Univ.; M.A. Univ. Iowa
Johnson, Norman A. Dipl. Regent Cig - Br Columbia; B.A. Seattle Pacific Univ.; M.A. Univ. of Oregon
Todd Le Douarec, Annick M. B.A. Univ. of Oregon; M.A. Univ. of Oregon; M.B.A. Univ. of Phoenix

Health & PE
Good, Julie Interim Dean B.S. Texas State Univ.; M.A. Texas State Univ.; Ph.D. Univ. of New Mexico
Cousar, Susie J. A.A. Butte Clg-Oroville; B.A. Calif St Univ. - Chico; M.S. Oregon State Univ.; CPR/AED/Oxyg Admin; ARC: First Aid Instructor Cert; CPR Certified
Herbold Shelye, Sharrinie A. B.A. Calif St Univ. - Chico; M.A. Calif St Univ. - Chico
MonDragon, Sean E. B.S. Calif St Univ. East Bay; M.S. Calif St Univ. East Bay
O’Connor, Patrick G. B.S. Univ. of Oregon; M.S. Oregon State Univ.
Shley, Greg N. B.A. Calif St Univ. - Chico; M.A. Calif St Univ. - Chico
Simmons, Wendy S. B.A. Univ. Calif Irvine. M.S. Univ. of Oregon; ACSM Cert Exercise Specialist; Licensed Massage Therapist; Cert Wellness Coach

Health Professions
Gregor, Jefferey Dean A.A.S. Community Col. of the Air Force; B.S. Univ. of New Mexico; M.Ed. Univ. of Phoenix; B.A. Univ. of Phoenix
Barnes, Sara J. A.A.S. Lane Community Col.; M.N. Walden Univ.-Minneapolis
Blickle, 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
Brokaw, Thomas R. A.A.S. Lane Community Col.; Advanced Life Support Instruct; CPR Certified; Oregon EMT Paramedic; NAEMT Prehospital Trauma LS In

Information reflects Human Resource records as of April 2017

Brown, Linda E. A.A.S. Lane Community Col.; B.S. Oregon Health Sci Univ.; M.S.N. Univ. of Phoenix
Clark, Leslie W. A.A.S. Clark Col.; B.S. Concordia Univ. Or; M.Ed. Concordia Univ. Or
Cummings, Michelle R. A.A.S. Lane Community Col.; B.S. Oregon Institute of Technology; Registered Dental Hygenist
Dirscoll, Norma L. A.S. Lane Community Col.; B.S. Linfield Col.; R.R.T.; R.C.P.
Greer, Leslie D. A.G.S. Lane Community Col.; B.S. Southern Oregon Univ.; D.F.O.D.A / E.F.O.D.A.; Certified Dental Assistant; E.F.D.A.
Hagan, Sharon S. B.S. Idaho State Univ.; M.S. Western Kentucky Univ.; Registered Dental Hygenist
Howard, Christina D. B.S. Univ. Calif Los Angeles; M.P.T. Univ. Calif San Francisco
Jessop, John D.
Kelsay, Patricia K. B.S. Oregon Health Sci Univ.; M.A. Pacific Univ.
Kirkpatrick, Kecia K. M.S. Walden Univ.-Minneapolis
McDonald, Shari A. A.A.S. San Diego City Col.; B.S.N. Oregon Health Sci Univ.; M.S. Walden Univ.-Minneapolis; Registered Nurse
McHugh, Maggie A.
Miller-Cattin, Toby E. B.S.N. Oregon Health Sci Univ.
Miner, Jonathon C. A.A.S. Oregon Health Sci Univ.; B.S. Univ. of Oregon; Emerg Resp Instr Trainer A.R.C; Paramedic Nat’l Registry EMT; AH Adv Cardiac LS Instruct; PALS. Cert for AHA; Oregon EMT Paramedic; Outdoor Emerg Care Tech Inst; Wilderness EMT Certification; Advanced Life Support Instruct
Nearing, Francine M.
Novicky, Elizabeth A.S. Excelsior Col.; B.S. Excelsior Col.; M.S.N. Regis Univ.
Pittman, Martha E. A.A.S. Excelsior Col.; C.M.A.; Registered Nurse
Powell, Tamberly M. M.S. Oregon State Univ.
Rodgers, Susan B. A.A. Pasadena City Col.; B.S.N. Mount St Marys Coll Chalon; M.S. Oregon Health Sci Univ.
Tavernier, Jennifer R. A.S. Lane Community Col.; B.S.N. Indiana State Univ.-Terre Haute; B.S. Univ. of Oregon; M.S.N. Indiana State Univ.-Terre Haute
Thorpe, Beth A. A.A. Univ. Evansville; B.S. Univ. Evansville
Tiel, Bren A. A.A.S. Portland Community Col.; B.S.N. Walla Walla Univ.; M.N. Univ. Calif Los Angeles; Registered Nurse
Tully, Tricia G. B.S.N. Northm Illinois Univ.; M.S. Troy State Univ. Montgomery
Walters, Kathleen A.A.S. Skagit Valley Col.; A.A. Moorpark Col.; B.S. Calif St Univ. Northridge; M.Ed. Bowling Green St Univ. Bowling Green; M.S.N. Walden Univ.-Minneapolis
Welch, Janet S. B.S.N. Univ. Minnesota Minneapolis; M.N. Univ. Minnesota Minneapolis; Registered Nurse
Williams, Shelley K. A.A.S. Lane Community Col.; A.A.S. Western Nebraska C C Sotsbluff; B.A. Northwest Christian Univ.; Registered Nurse

Institute for Sustainable Practices
Ebbage, Roger A. B.A. San Francisco State Univ.; M.A. San Jose State Univ.

Language, Literature and Communication
Carkin, Susan J. Dean; B.A. Southern Illinois Univ. Carbondale; B.A. Southern Illinois Univ. Carbondale; M.A. Univ. of Oregon; M.A. Utah State Univ.; Ph.D. Northrn Arizona Univ.
Almquist, Karin B.A. Univ. of Oregon; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon
Beasley, Amy B.A. Gettysburg Col.; M.A. Washington State Univ.
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
Fraser, Crosby J. B.A. Ambassador Clg- Big Sandy; M.A. Univ. Louisiana Monroe
Krumrey-Fulks, Karen S. B.A. Southern 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 M. M.A. Illinois State Univ.; Ph.D. Illinois State Univ.
Matalon-Florendo, Sylvia B.A. Univ. Sorbonne Nouv - Paris Illi; B.A. Univ. Sorbonne Nouv - Paris Illi; M.A. Univ. of Oregon
McDonald, Michael B. M.A. Univ. of Oregon; Ph.D. Univ. of Oregon
McGrail, Anne B. B.A. Univ. Mass Boston; M.A. Suny Buffalo; Ph.D. Suny Buffalo
Shitabata, Russell H. M.A. Digital Univ.

Information reflects Human Resource records as of April 2017

Welch, Janet S. B.S.N. Univ. Minnesota Minneapolis; M.N. Univ. Minnesota Minneapolis; Registered Nurse
Williams, Shelley K. A.A.S. Lane Community Col.; A.A.S. Western Nebraska C C Sotsbluff; B.A. Northwest Christian Univ.; Registered Nurse
Viles, Andrew M. A.S. Blue Mountain Comm Col.; 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.

Library

Wamsley, Lori Dean B.S. Univ. of Portland; M.A. Emporia State Univ.; M.A. Emporia State Univ.; Ph.D. Oregon State Univ.

Doctor, David L. B.A. Univ. Puget Sound; M.L.S. Univ. Washington

Ferro, Jennifer A. B.A. Univ. of Arizona; M.L.I.S. Univ. of Texas - Austin

Macaunghon, Donald T. B.A. Univ. of Auckland; M.A. Univ. of Auckland; M.L.S. Victoria Univ. of Wellington

Mathematics

Hledik, Kathryn L. Dean; B.A. Oregon State Univ.; M.A. Univ. of Oregon

Green, Dale E. B.A. Univ. of Oregon; M.A. Oregon State Univ.

Harbowy, Daniel P. B.A. Rutgera/State Univ.-New Jersey; M.S. Univ. of Florida

Holton, Kristina L. B.S. Oregon State Univ.; M.S. Oregon State Univ.

Hsiao, Berri B.S. Univ. of Oregon; M.S. Montana State Univ. Bozeman; M.S. Univ. of Oregon

Knoch, Jessica R. B.S. Randolph-Macon Womans Coll.; M.A. Univ. of Cincinnati; M.A. Univ. of Virginia

Kovcholovsky, Michel P. B.A. Univ. of Oregon; M.S. Univ. of Oregon

Lighthouse, Wendy N. B.S. Oregon State Univ.; M.S. Oregon State Univ.

Martinek, Angela B. B.S.M.E. Univ. Vermont; M.S. Univ. Vermont; M.S.M.E. Univ. Vermont

Moore, Philip E. B.A. Harvard Univ.; M.A. 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.

Rawlinson, Wendelle L. B.A. Sonoma State Univ.; M.S. Univ. of Oregon

Selph, Stephen L. B.S. Trinity Univ.; M.S. Northwstrn Univ.

Smith, Gayle L. B.S. Univ. Illinois Chicago; M.S. Eastern Washington Univ.

Thonney, Paula A. B.S. Illinois State Univ.; M.S. Southern Illinois Univ. Carbondle

White, Karen L. B.A. Colorado Col.; M.S. Univ. of Oregon

Music, Dance and Theatre Arts

Lubben Richard Dean; B.A. California State Univ., Sacramento; M.F.A. Instituto Allende, San Miguel de Allende in Mexico

Information reflects Human Resource records as of April 2017

Haimbach, Brian P. B.A. Florida State Univ.; M.A. Univ. Nevada Las Vegas; Ph.D. Univ. Georgia Athens

McManus, Edward C. B.M. Univ. of Oregon; M.Ed. Univ. of Oregon

Myrick, Barbara B.M.E. Montana State Univ. Bozeman; M.M. Univ. of Oregon; M.A. Eastman Sch of Music-Rochester; D.M.A. Univ. of Oregon

Simoa Reid, Bonnie L. B.A. Calif St Univ. - Chico; M.F.A. Mills Col.; Cert Continum Movement Instr

Svoboda, Matthew D. B.A. Lewis & Clark Col.; B.M. Univ. of Oregon; M.M. Univ. of Oregon; M.M. Univ. of Oregon

Watanabe, Hisao B.M. Roosevelt Univ.; M.M. New England Conservatory Music

Science

Ruscher, Paul H. Dean B.S. Surry Coll Oneonta; M.S. Oregon State Univ.; Ph.D. Oregon State Univ.

Andrews, Christine M. B.S. Univ. Washington; Ph.D. Univ. Pennsylvania Undgrd Adm

Bunson, Paul E. B.S.E.E. Univ. Pennsylvania Undgrd Adm; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon

Gilbert, Dennis D. B.S. Calif St Univ. Fresno; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon

Kiser, Stacey L. B.S. Oregon State Univ.; M.S. Univ. of Oregon

McLaughlin, Jeanne M. B.S. Univ. of Oregon; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon

Mort, Gary E. B.S. Southern Oregon Univ.

Newell, Carrie L. B.S. South Dakota State Univ.; B.S. Southern Utah Univ.; M.S. Northrn Arizona Univ.

Nichols, Brian R. A.A.S. Lane Community Coll.; B.S. Univ. of Oregon; M.S. Univ. of Oregon

Swank, Stanton R. B.S. Calif Poly - San Luis Obispo; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon

Taylor, Brooke E. B.S. Univ. of Oregon; M.S. Univ. of Oregon

Thompson, John E. B.S. Westmont Col.; M.S. Univ. Colorado Boulder

Young, Douglas M. B.A.S. Univ. Calif Davis; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon

Social Science

Martinez, Philip R. Interim Dean B.A. Univ. California Irvine; M.A. Univ. Calif Berkeley; M.A. Univ. Calif Riverside

Adams, Cynthia B.A. Calif St Univ. Long Beach; M.A. Calif St Univ. Long Beach; Ph.D. Wayne State Univ.

Anderson, Jody L. B.A. Univ. of Oregon; M.A. Univ. of Oregon

Benjamin, Jane E. B.S. Univ. of Oregon; M.S. Univ. of Oregon

Bishop, Jean M. B.A. Eastern Washington Univ.; M.A. Univ. of Oregon

Borrowdale, Jeffrey B.A. Calif St Univ. Sacramento; M.A.C.Phl. Univ. Calif Santa Barbara

Broderick, Sheila N. B.A. Univ. of Oregon; M.A. Univ. of Oregon

Burrows, Kendra S. B.S. Carnegie Mellon Univ.; M.S. Univ. of Utah

Burrows, William H. B.S. Southern Oregon Univ.; M.S. Southern Oregon Univ.

Escobar, Joe G. B.A. Calif St Univ. Fullerton; M.A. Calif St Univ. Fullerton

Helzer, Margaret M. A.S. Penn State Univ.;Mont Alto; B.S. Univ. of Oregon; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon

Hickey, Beverly J. B.S. Univ. Calif Davis; M.A. Stanford Univ.; Elec Education Teaching Cert; Bilingual Spanish/English

Lloyd, Kathleen M. B.A. Lewis & Clark Col.; M.Ed. Univ. of Portland; Ph.D. Oregon State Univ.

O'Fearghail, Caomhin P. B.A. Northern Arizona Univ.; B.S. Northern Arizona Univ.; M.A. Univ. Nevada Las Vegas

Raza, Nadia K. A.A. Orange Coast Coll.; B.A. Univ. Calif Los Angeles; M.A. Humboldt State Univ.

Salt, James T. B.S. Univ. Maine Orono; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Salter, Christina L. B.A. New Ctg - Univ. South Florida; M.S. Univ. of Oregon; Cert Licensed Prof Counselor; National Certified Counselor

Samano, Michael L. B.A. Univ. of Oregon; M.A. Univ. Calif Davis; M.A. Humboldt State Univ.; Ph.D. Oregon State Univ.

Soner, Lynn C. B.S. Univ. of Oregon; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Taylor, Stan N. B.A. Univ. Kansas; M.A. Univ. of Oregon; L.L.M. Georgetown Univ.-Law Ctr; J.D. Univ of Pacific/Mc George Law; Ph.D. Univ. of Oregon

Williams, Suzanne L. B.S. Grand Valley State Univ.; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon

Student Life and Leadership Dev


Evans, Gregory A. B.S. Myers Univ.; M.Ed. Oregon State Univ.

Garcia, James S. B.S. Univ. of Oregon

TRIO

Partheimer, Mary S. Dean; A.A.S. Whatcomm Community Coll.; B.A. Western Washington Univ.; M.S.W. Arizona State Univ.; Licensed Clinical Social Worker

Torch

Weare, Dorothy R. B.S. Univ. of Oregon; M.S. Univ. of Oregon

Women's Programs

Di Marco, Cara E. B.A. Univ. of Oregon; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon
Part-Time Instructional Staff

Academic Learning Skills
Burley, Mali M. B.A. San Francisco State Univ.; M.A. Oregon State Univ.
Groves, John M. B.A. Univ. of Vermont; M.F.A. Oregon State Univ.
Harvey, Ronald G. B.A. Andrews Univ. Berrien Springs; M.A. Ohio Univ. Athens; Ph.D. Michigan State Univ. East Lansing
Kepka, Jennifer A. B.A. Univ. Kansas; M.F.A. Univ. of Oregon
Kolman, Sue E. B.A. Goucher Col.; M.Ed. Goucher Col.
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
Perkins, Megan A.A. Lane Community Col.; B.S. Univ. of Oregon; M.Ed Oregon State Univ.
Rubinstein, Leslie J. B.A. Sarah Lawrence Col.; M.Ed. Pacific Univ.
Schweigert, Cynthia J. B.A. Univ. of Oregon; M.A. Univ. of Oregon
Summers, Leroy M.Ed. Oregon State Univ.
Wight, Sherrill C. B.S. Brigham Young Univ. Utah; M.Ed. Univ. of Utah

Adult Basic and Secondary Education
Arias Anrango, Rafael 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
Nissila, Phyllis M. B.A. George Fox Univ.; M.A. Calif St Univ. Dominguez Hills
Palaniuk, Tiffany M.
Shelly, Rachel R. M.A. Pacific Univ.
Walker, Ann E. B.A. San Francisco State Univ.; M.A. Pacific Univ.

Advanced Technology Division
Babson, James N. B.A. Cornell Univ.
Caffey, Stephen P. A.A.S. Lane Community Col.
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.
Dale, Terry R. A.S. Spartan School Aeronautics; B.S. San Jose State Univ.

Fleming, Cheryl L. A.S. Lane Community Col.; A.S. Laramie County Community Col.; B.S. Linfield Col.
Kruse, David A. B.S. Yale Univ.; B.M. Juilliard School; M.M. Juilliard School
Moore, Herbert E. FAA Airframe and Powerplant; ASE Cert Master Gas Eng Mach
Rea, Paul H.
Revell, Robert D. Journeyman Cert Millwright
Steinberg, Shalimar B.A. Unknown Oregon Col.

Arts Division
Ali, Katherine L. B.F.A. Calif Col. of Art
Berner, Christopher A. B.F.A. Kansas City Art Institute
Beyer, Erika R. B.A. Carleton Col.; M.A. Univ. of Oregon
Breding, Corral L.
Burton, Thomas J. A.A.O.T. Lane Community Col.
Campbell, George R. A.A. Lane Community Col.; B.S. Univ. of Oregon
Caprario-Ulrich, Kathleen M. Dipl. Newark Sch Fine & Indust Art
Coronado, Ian I. B.F.A. Univ. Oklahoma; M.F.A. Univ. of Oregon
De Vine, Robert B.F.A. St Johns Univ.
DeVore, Carla E. B.F.A. Univ. Minnesota Duluth; M.A. Univ. of Oregon
Finnerty, Kathryn A. M.F.A. Louisiana St Univ. Baton Rouge
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. Oregon
Jolicoeur, Michelle A.
Lucanio, 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 Col.; B.A. Univ. of Oregon
Osterkamp, Ellen A. B.A. Loyola Univ. of Chicago; M.A. Univ. of Oregon
Phillips, Michael G. B.F.A. Univ. of Oregon; M.F.A. Rochester Inst Tech
Potwora, Kristie A. B.A. Humboldt State Univ.; B.F.A. Univ. of Oregon; M.F.A. Univ. of Oregon
Richenberg, Carrie O. B.A. Univ. of Oregon; B.A. Univ. of Oregon; M.F.A. American Univ. De
Salzman, Jennifer K. B.S. Univ. Wisc Stevens Point; M.F.A. Univ. Minnesota Minneapolis
Seloover, Robin E. B.F.A. Univ. of Oregon; M.F.A. Univ. of Oregon; M.F.A. Univ. of Oregon

Tykeson, Ellen P. B.S. Univ. of Oregon; M.F.A. Univ. of Oregon
Vander Schaaf, Elizabeth B.A. Univ. of Oregon; M.A. Univ. of Oregon
Welton, Daniel V. B.A. San Jose State Univ.; M.S. Univ. of Oregon

Aviation Academy
Daniel, Nicholas J. FAA Flight Instructor, CFII; FAA Ground Instructor Advanced; FAA Community Pilot Sgl Eng Lnd Inst; FAA Ground Instructor Instrum
Lowenkonron, Laurence H. B.S. Humboldt State Univ.; FAA Airframe and Powerplant; FAA Comm Pilot Glider; FAA Community Pilot Sgl Eng Lnd Inst; FAA Comm Pilot Single Sea; Cert Professional Engineer
Parrish, Walter S. A.S. Lane Community Col.; A.S. Lane Community Col.; A.S. Lane Community Col.; B.A. Northwest Christian Univ.; FAA MEI (Multiengine Instruct); FAA MEL (Multi-Engine Land); FAA Community Pilot Sgl Eng Lnd Inst; FAA Ground Instructor Instrum; FAA Ground Instructor Advanced; FAA Flight Instructor, CFII
Roney, Michael S. A.A.S. Lane Community Col.; FAA Flight Instructor, CFII; FAA MEL (Multi-Engine Land); FAA Ground Instructor Instrum; FAA Ground Instructor Advanced; FAA Community Pilot Sgl Eng Lnd Inst
Ruwaldt, Bryan R.
Wisdom, Jacob I. A.S. Lane Community Col.; FAA Flight Instructor, CFII; FAA Community Pilot Sgl Eng Lnd Inst; FAA Ground Instructor Advanced; FAA Ground Instructor Instrum
Withrow, Jesse J. FAA Community Pilot Sgl Eng Lnd Inst; FAA Ground Instructor Instrum; FAA Flight Instructor, CFII; FAA Ground Instructor Advanced
Wynn, Brandon D.

Business
Boyle, Patricia A. B.S. Cal Poly - San Luis Obispo; M.B.A. Oregon State Univ.
Chase, James A.A.S. Lane Community Col.; B.S. Northwest Christian Univ.; M.A. Northwest Christian Univ.
Hovet, Timothy D. B.A. Univ. Montana; M.B.A. Univ. of Oregon
Kimble, Sharon R. B.S. Western Carolina Univ.; B.S. Western Carolina Univ.; M.Ed. Western Carolina Univ.
LePelley, Eliene R. B.A. Idaho State Univ.
McGlynn, Kaaren L. B.S. Portland State Univ.; M.B.A. Portland State Univ.; M.S. E-Commerce National Univ.
Parsons, Rick L. A.A. Columbia Col. Mo; B.A. Columbia Col. Mo; M.A. Calif St Univ. Long Beach
Reed, Kathryn A. B.A. Univ. of Oregon
Wallace, Tulsie E. B.L.A. Univ. of Oregon; M.B.A. George Fox Univ.

Information reflects Human Resource records as of April 2017
Culinary Arts and Hospitality

Dombrosky, Adrienne L. B.A. Univ. of Oregon
Lohn, Peter Journeyman Cert Hotel/Catering
Tracey, Shane P.

English as a Second Language

Burley, Hali M. M.A. Oregon State Univ.; Teaching Engl Speak Othr Lang
Claypool, Leah A. B.A. Univ. of Oregon; M.A. Portland State Univ.
Elms, Hillary F. B.A. Univ. of Oregon; B.S. Univ. of Oregon; M.A. Concordia Univ. or Gesseert, Kate R. B.A. Wellesley Col.; M.S. Bank Street Clg of Ed-New York
Haynes, Pamela G. B.A. Univ. of Oregon; M.A. Portland State Univ.; Elem Education Teaching Cert
Higgins, Cybele M. B.A. Univ. Calif Santa Cruz; M.A. Portland State Univ.
Howard, Andrew C. B.S. Oregon State Univ.; B.A. Brown Univ.
McClelland, Sean C. B.A. Univ. of Oregon; M.A. Univ. of Oregon
Sacklin, Jennifer M.
Shields, Colleen M. B.A. Boston Univ.; M.A. Univ. Mass Boston
Zinckner, Stacey M. B.A. Univ. of Oregon; M.A. Pacific Univ.

Florence Center

Anderson, Deborah G. B.A. Calif St Univ. Los Angeles; M.S. Calif St Univ. Los Angeles
Brown, Karen S. B.A. Wright State Univ.-Dayton; M.A. Wright State Univ.-Dayton
DePueente, Yvonne B. A.A. Lane Community Coll.; B.S. Oregon State Univ.; M.S. Oregon State Univ.
Hasvold, Christine C. M.A. Univ. North Iowa
Josef-Maier, Clare B.A. Pacific Lutheran Univ.; M.A. Seattle Univ.
Mitchell, James A. M.S. Brigham Young Univ. Utah
Purtell, Elizabeth B.A. Linfield Coll.; M.Ed. Univ. of Oregon

Health and PE

Austin, Susan R. B.A. Bowdoin Col.; M.S.W. Smith Clg/Grad Sch-Social Work
Blunt, Joshua W. B.A. Cal Poly - San Luis Obispo; M.S. Valdosta State Univ.
Chavka, Bruce A. B.A. Western State Col. Co; B.S. Western State Col. Co; M.S. Emporia State Univ.
Davis, Tina M. B.S. Oregon State Univ.; M.Ed. Oregon State Univ.
Farwell, Christie M.

Gibbeau, Samantha J. A.A. Portland State Univ.; B.S. Western Oregon Univ.; M.Ed. Pacific Univ.
Grumbley, Kevin L. B.S. Western Oregon Univ.
Hayes, Sean W. B.A. Michigan State Univ.
Kaczenski, Louis H. B.A. Univ. of Oregon; M.A.T. Oregon State Univ.
Mertz, Erica L. B.A. Univ. Nevada Las Vegas; M.S. Univ. Nevada Las Vegas
Oberstaller, Peggy E. M.S. Oregon State Univ.; AHA Cert Basic Life Supt HPI; First Aid Instructor Cert; AH CPR Instructor
Olmos, Kristen C. B.S. Calif St Univ. San Bernardino; M.P.H. Loma Linda Univ.; Registered Dietician
Pearce, Kelley L. C.C.E.R.T.1 Lane Community Coll.; ACSM Cert Exercise Specialist; ACE Cert Group Fitness Instr
Reidy, Vernase E.
Scheele, Kathleen M. B.S. Univ. of Oregon; ACE Cert Group Fitness Instr
Wilken, Lyndell K. B.S. Univ. Illinois Urbana; M.S. Univ. Illinois Urbana
Willett, Stephanie A. A.A.O.T. Southwestern Ore Comm Coll.; B.S. Western Oregon Univ.

Health Professions

Brown, Natalie J. A.A.S. Lane Community Coll.; B.S. Oregon Health Sci Univ.; M.S. Oregon Health Sci Univ.
Callahan, Alice S. B.S. Cornell Univ.; Ph.D. Univ. Calif Davis
Clack, Crystal A. M.S. Col. St Scholasticas Collins, Kelly D. B.S. Univ. Missouri Columbia; J.D. Univ. of Oregon
Culy, Imogene V.
Dodge, Vicki L. A.A. Fresno City Coll.; B.S. Northn Arizona Univ.
Duvck, Mark G. A.A. Mount Hood Community Coll.; B.S. Portland State Univ.; B.S. Univ. of St Francis; M.S. Portland State Univ.; Lic Phys Therapist Assistant
Gust, Brandon W.
Hamlin Rupp, Piper L. B.S. Linfield Coll.; Cert Computer Science
Hill, Richard W.
Houser, Cris A. B.S. Oregon Institute of Technology
Johns, Tamra R. B.S. Oregon Institute of Technology
Jones, Jill M. B.S.D.H. Oregon Health Sci Univ.; M.S. Univ. Iowa
Knight, Stephen G. A.A.S. Lane Community Coll.; B.S. Univ. of Oregon
Langlois, Alicia J. B.A. Northwest Christian Univ.
Maahs, Tamara A.A.S. Lane Community Coll.; B.S. Oregon Institute of Technology; Registered Dental Hygienist
Manning, Cindy A. B.S. Linfield Coll.; M.A. Ldrsph Inst Seattle-Basyr Univ
McCabe, Channy C.
McFerran, Teresa M. B.S. Quinnipiac Univ.; B.S. Rutgers/State Univ.-New Jersey; M.S. Rutgers/State Univ.-New Jersey; Registered Dietician
Miner, Jennifer A. B.A. Univ. of Oregon; M.S. Univ. of Oregon

Peterson, Kym M. Certified Dental Assistant

Rathkette, Noy B.S. Mahidol Univ. - Thailand; M.S. Univ. of London - U.K.; Ph.D. Univ. of Oregon

Reynolds, Susan M. B.S. Simmons Col.; M.S. Univ. of Oregon

Robinson, Thomas I.

Smith, Jan M.

Tabor, Matti J.

Trickey, Linda S.

Wilkinson, Brian J.

Yui, Amber M. B.S. Cal Poly - San Luis Obispo; M.P.H. Calif St Univ. Long Beach; Cert Health Educ Specialist; Registered Dietician

Institute for Sustainable Practices

Cunningham, Kai R.

MacDonald, Fraser E. B.S. Univ. Nebraska Lincoln; M.A. Univ. of Oregon

Mae, Sonja A.A.O.T. Lane Community Col.; B.A. Prescott Col.

Marinello, Suzanne L. B.S. Cal Poly - San Luis Obispo

Mayfield, Ryan J. B.S. Humboldt State Univ.

Merris, William D. B.A. Univ. Illinois Urbana

Sims, Michael D. B.B.A. Texas A&M Univ.-Clg Station; B.A. Univ. Montana; M.S. Univ. of Oregon

Vacher, Joseph V. A.A.S. Lane Community Col.

Willis, Erika C. B.A. Col. Wooster

International Student Program

Rivera, Caitlan M. B.A. Queens Univ. Charlotte; M.A. Sch For International Tng

Yardley, Russell E. B.A. Univ. of Oregon

Language, Literature and Communication


Aydellof, Elizabeth B.A. Emory Univ.; M.A. Indiana Univ. Bloomington; Ph.D. Indiana Univ. Bloomington

Bockoven, David S. B.A. Univ. Washington; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Brasted-Maki, Donald M. B.A. St Olaf Col.; B.S. Univ. Minnesota Minneapolis; Ph.D. Temple Univ.

Budz, Devon T. B.A. Univ. of Oregon; M.A. Univ. of Oregon

Casimir, Ulrick C. B.A. North Car State Univ. Raleigh; M.F.A. Univ. North Carolina Greensboro; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Caston, Merry C. B.A. Univ. Iowa; M.F.A. Univ. of Oregon

Coleman, Stanley R. B.A. Dillard Univ.; M.S. Univ. Louisiana Lafayette; Ph.D. Louisiana St Univ Baton Rouge

Cordova, Angela J. B.S. Oregon State Univ.; M.S. Oregon State Univ.

Daniels, Joshua B.A. Univ. Calif Santa Cruz; B.A. Cornell Univ.; M.A. Univ. of North Carolina

De Vries, Rosemarie T. A.A.S. Onondaga Community Col.; B.S. Syracuse Univ.; M.S. Syracuse Univ.; Ph.D. Univ. of Oregon

Fleming, William P. M.A. Cuny City Col.; M.F.A. Univ. of Oregon

Gabriel, Daphne A. B.A. New Clg - Univ. South Florida; M.A. Univ. of Oregon

Ghiselin, Katherine B.A. Bethany Col. Wv; Ph.D. Univ. of Oregon

Ginsberg, Marsha W. B.A. Cornel Univ.; Ph.D. Suny Buffalo

Hankinson, Cheryl L. B.Ed. Central Washington Univ.; M.A. Brigham Young Univ. Utah


Henry, Daniel L. B.S. Western Oregon Univ.; M.S. Univ. of Oregon

Hermach, Deborah A. B.S. Northwest Christian Univ.; M.S. Univ. of Oregon

Horton, Kathleen A. A.A. Grays Harbor Col.; B.A. St Martins Col.; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Houchens, Clayton F. B.A. Davidson Col.; M.A. Univ. North Carolina Chapel Hl; Ph.D. Univ. of Oregon

Jensen, Peter J. B.A. Univ. of Michigan-Ann Arbor; M.A. New York Univ.

Jensen, Sandra M. B.A. Univ. Washington; M.A. Calif St Univ. Fullerton; Bilingual Spanish/English

Keech, Beth E. B.A. Villanova Univ.; B.S. Villanova Univ.; M.A. Middlebury Col.

Kemmy, Ann M. B.A. Reed Col.; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Kendall, Brooke M. B.S. Oregon State Univ.; M.A. Washington State Univ.

Kiser, James J. B.A. Humboldt State Univ.; M.A. Humboldt State Univ.

Levin, Mara B.A. Suny Buffalo; M.A. Univ. Connecticut - Storrs; Ph.D. Univ. of Denver

Lounge, Cameron E. B.A. Southern Oregon Univ.; M.A. Univ. of Oregon


Ma, Perry W. B.A. Shanxi Univ. - Taiyuan China; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Mackay, Daniel J. B.A. Wayne State Univ.; M.A. New York Univ.; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

McLachlin, Robert A. B.A. Univ. Oklahoma; M.A. Univ. of Oregon

McQuillan, Lucas P. B.A. Humboldt State Univ.; M.A. San Diego State Univ.

Mortensen, Camilla H. B.A. New Clg - Univ. South Florida; M.A. Univ. Calif Los Angeles; Ph.D. Univ. of Oregon


Rothger, Daniel B. B.A. Baldwin-Wallace Col.; M.Ed. Univ. of Virginia; M.A.T. Duke Univ./Grad Sch Arts & Sci; Ph.D. Univ. of Oregon

Shaner, Timothy W. B.A. Ft Lewis Col.; M.A. Antioch Univ.-Yellow Springs; Ph.D. Suny Buffalo

Sheppard, Beth E.

Shull, Kathleen R. B.A. Univ. of Oregon; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon

Skupsky, Michael M.A. Colorado Mesa Univ.; M.S. Colorado Mesa Univ.; M.A. Univ. of Oregon; M.S. Univ. of Oregon

Stevenson, Gail C. B.A. Univ. of Oregon; M.S. Univ. of Oregon

Sullivan, Barbara T. B.A. Antioch Univ.-Yellow Springs; M.F.A. Univ. of Oregon

Thompson, Angela M.

Thompson, Rebecca C. B.A. Univ. of Oregon; M.A. Univ. of Oregon


Untz, Lynn M. B.A. New School/Eugene Lang Col.; M.F.A. Univ. of Oregon

Viles, Jerome M.

Watt, Carol D. B.A. Univ. Calif Los Angeles; M.A. Calif St Univ. Long Beach; Ph.D. Univ. of Oregon

Williams, John E. B.A. Univ. of The Pacific; M.A. New York Univ.; M.A. Univ. of Oregon

Williams, Susan E. B.A. Cornell Univ.; M.A. Univ. California Berkeley

Mathematics

Albrethsren, Kristen B.A. Mount Holyoke Col.; M.S. Purdue Univ. West Lafayette

Armstrong, Nikki G. B.S. Calif St Univ. Bakersfield; M.S. Univ. Calif Berkeley

Bahan, Gordon B.A. Brigham Young Univ. Utah; M.A. Univ. Montana; Secondary Teaching Certificate

Behm, Charlotte E. B.A. Univ. Tennessee Knoxville; B.S. Univ. Tennessee Knoxville; M.A. San Francisco State Univ.; M.B.A. Xavier Univ. Oh; M.S. Univ. Tennessee Knoxville; Cert Professional Engineer

Beick, Molly M. B.A. Calif Lutheran Univ.; M.A. Univ. Calif Berkeley

Blackburn, Christopher J. B.A. Col. of The Holy Cross; M.A.T. Univ. of Florida

Bretnmar, Ann B.S. Penn State Univ./Univ. Park; M.Ed. Univ. of Oregon

Bretnmar, Ann B.S. Penn State Univ./Univ. Park; M.Ed. Univ. of Oregon

Carroll, Ron M. B.A. Calif St Univ. Northridge; M.S. Calif St Univ. Northridge

Cataldo, Donovan B.A. North Iowa Area Clg; B.S. Iowa State Univ.; M.E.P.D. Univ. Wisc Whitewater

Cataldo, Inga A. M.S. Univ. Ukraine Kyiv Polytech Ins

Information reflects Human Resource records as of April 2017
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collett, David L.</td>
<td>B.S. Univ. Montana; M.S. Univ. of Oregon</td>
</tr>
<tr>
<td>Cunningham, Allison M.</td>
<td>A.A. Cuesta Cnty Col.; B.S. Cal Poly - San Luis Obispo; M.S. Cal Poly - San Luis Obispo</td>
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<td>Dawson, Kimberly L.</td>
<td>A.A. Orange Coast Col.; B.S. Utah State Univ.</td>
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<tr>
<td>Dixon, Harley T.</td>
<td>B.S. Southern Oregon Univ.; M.A. Univ. of Oregon</td>
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<td>Getty's, Thomas P.</td>
<td>B.A. Calif St Univ. - Chico; M.S. Calif St Univ. - Chico</td>
</tr>
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<td>Gladdfelter, Stephen G.</td>
<td>B.A. Oberlin Col.; M.S. Univ. of Oregon; M.S. Rutgers/State Univ.-Camden</td>
</tr>
<tr>
<td>Gyde, Nina J.</td>
<td>B.A. Univ. of Oregon; M.A. Oregon State Univ.</td>
</tr>
<tr>
<td>Henderson, Kristen L.</td>
<td>B.A. Univ. Calif Berkeley; M.S. Univ. Nevada Reno</td>
</tr>
<tr>
<td>Hertzberg, Steve L.</td>
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</tr>
<tr>
<td>Hill, Benjamin L.</td>
<td>B.A. Univ. North Dakota Grand Forks; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
</tr>
<tr>
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<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
</tr>
<tr>
<td>Kau, Brian S.</td>
<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
</tr>
<tr>
<td>Larson, Jody A.</td>
<td>A.A. Lane Community Col.; B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
</tr>
<tr>
<td>Lockhart, Paula A.</td>
<td></td>
</tr>
<tr>
<td>Luchkowska-Burton, All</td>
<td>M.A. liv State Univ.; M.S. Liviv State Univ.; Ph.D. Liviv State Univ.</td>
</tr>
<tr>
<td>Myers, Steven L.</td>
<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
</tr>
<tr>
<td>Oskui Tabrizi, Reza</td>
<td>M.S. Univ. of Idaho; Ph.D. Univ. of Idaho</td>
</tr>
<tr>
<td>Quigley, Daniel G.</td>
<td>B.S. Univ. Missouri St Louis; M.S. Univ. Missouri St Louis</td>
</tr>
<tr>
<td>Shatalova, Larissa A.</td>
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</tr>
<tr>
<td>Steele, John W.</td>
<td>B.S. Oregon State Univ.</td>
</tr>
<tr>
<td>Van Slyke, David L.</td>
<td>B.A. Pomona Col.; M.A. Univ. Calif Santa Barbara; M.Ed. Univ. Caliv Santa Barbara</td>
</tr>
<tr>
<td>Wilkinson, Nathan A.</td>
<td>B.S. Northwest Nazarene Univ.</td>
</tr>
<tr>
<td>Wofford, Margaret A.</td>
<td>B.A. Univ. of Oregon; M.Ed. Regent Univ. - Virginia Beach</td>
</tr>
<tr>
<td>Zalonis, Elaine F.</td>
<td>B.S. Bloomsburg Univ. of Pa; M.S. Bucknell Univ.; M.B.A. Golden Gate Univ.</td>
</tr>
</tbody>
</table>

**Music, Dance and Theatre Arts Division**

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alves, Olem B.A.</td>
<td>Univ. of Oregon; M.M. Univ. of Oregon</td>
</tr>
<tr>
<td>Brabham, Vicki B.</td>
<td>B.S. Northwest Christian Univ.</td>
</tr>
<tr>
<td>Chu, Hung-Yun</td>
<td>M.M. Peabody Institute; D.M.A. Univ. of Oregon</td>
</tr>
<tr>
<td>Clabby, Lawrence E.</td>
<td>B.M. Boise State Univ.; M.M. Univ. of Oregon</td>
</tr>
<tr>
<td>Cloninger, Jesse M.</td>
<td>B.M. Univ. North Texas; M.M. Univ. North Texas</td>
</tr>
<tr>
<td>Denny, Michael P.</td>
<td>B.A. Cuny City Col.; M.A. Univ. of Oregon</td>
</tr>
<tr>
<td>Dewitt, Marianne A.A.</td>
<td>A.A. Fashion Ins Dsmg Merch Los Angeles</td>
</tr>
<tr>
<td>Ebert, Sarah B.</td>
<td>F.A. Univ. Illinois Urbana; M.F.A. Univ. of North Texas</td>
</tr>
<tr>
<td>Lemmer, Cheryl A.</td>
<td>B.S. Ramapo Col. New Jersey; Gyroskininse Instructor: Polestar Pilates Certification; Nat Cert Pilates Instructor; Gyrotonic Instructor</td>
</tr>
<tr>
<td>Moses, Florabelle B.A.</td>
<td>B.A. Rubin Acad Music &amp; Dance; M.A. Univ. of Oregon</td>
</tr>
<tr>
<td>Mulvihill, Seth M.</td>
<td>B.A. Univ. Northrn Iowa; M.A. Univ. Minnesota</td>
</tr>
<tr>
<td>Nemecek, Sarah M.</td>
<td>B.S. Univ. Nevada Las Vegas; M.F.A. Univ. of Oregon</td>
</tr>
<tr>
<td>Stark, Melissa E.</td>
<td>B.M. University of the Pacific; M.M. Univ. of Oregon</td>
</tr>
<tr>
<td>VanUmmersen, Margo J.</td>
<td>B.A. Macalester Col.; M.A. Univ. of Oregon</td>
</tr>
<tr>
<td>Vik, Siri E.</td>
<td>B.M. Univ. Kansas; M.M. Univ. of Cincinnati</td>
</tr>
<tr>
<td>Waddell, Nathan A.A.</td>
<td>B.A. Lane Community Col.; B.M. Univ. of Oregon; M.M. Univ. of Oregon</td>
</tr>
</tbody>
</table>

**Science**

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allee, John P.</td>
<td>B.S. Univ. of Southern Maine; Ph.D. Univ. of Oregon</td>
</tr>
<tr>
<td>Arle, John F.</td>
<td>B.S. Arizona State Univ.; M.S. Arizona State Univ.</td>
</tr>
<tr>
<td>Baer, Jennifer J.</td>
<td></td>
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<tr>
<td>Baxter, Mary E.</td>
<td>B.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
</tr>
<tr>
<td>Behm, Harriet L.</td>
<td>B.S. Univ. of Tennesse-Memphis; M.S. Univ. of Michigan-An Arbor</td>
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<td>Boleyn, Pat C.</td>
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</tr>
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<td>Crane, Stephen T.</td>
<td></td>
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<td>Coville, Mary E.</td>
<td>B.A. Univ. Calif Santa Cruz; M.S. Univ. Califa Santa Cruz; Ph.D. Oregon State Univ.</td>
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<td>French, Patricia A.</td>
<td>B.S. Linfield Col.; M.S. Univ. of Oregon</td>
</tr>
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<td>Geddes-Osborne, Alex</td>
<td>B.A. Univ. Caliv Berkeley; M.S. Univ. Caliv Davis</td>
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<td>Glaeser, Rachel M.</td>
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<td>Holmes, Susan E.</td>
<td>B.S. Oregon State Univ.; M.L.A. Univ. of Oregon</td>
</tr>
<tr>
<td>Keith, Evan J.</td>
<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
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<tr>
<td>Kilgore, Melissa J.</td>
<td>B.S. Weber State Univ.; M.S. Centrl Michigan Univ.</td>
</tr>
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<td>Knelly, Leah J.</td>
<td>B.S. Univ. of Houston-Downtown Colg; B.S. Univ. of Houston-Downtown Colg; B.Ed. Univ. Alaska Anchorage; M.S. Oregon State Univ.</td>
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<tr>
<td>Lewis, Kevin A.</td>
<td>B.S. Southern Oregon Univ.; M.S. Washington State Univ.</td>
</tr>
<tr>
<td>Mattox, Kimber M.</td>
<td></td>
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<tr>
<td>Monson, John M.</td>
<td>B.S. Univ. of Oregon; M.A. Univ. Southern California</td>
</tr>
<tr>
<td>Mort, Michele G.</td>
<td>B.A. Lycoming Col.; M.S.E.E. Naval Postgraduate School; M.S. Univ. of Oregon</td>
</tr>
<tr>
<td>Nelson, Julie A.</td>
<td>B.S. Univ. of Oregon; M.S. Iowa State Univ.; M.S.H.S. Medical Col. Ga</td>
</tr>
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<td>Nurre, Stuart C.</td>
<td>A.A.S. Lane Community Col.; B.S. Univ. of Oregon; M.E.P. Univ. of Oregon; M.S. Univ. of Oregon; R.R.T.</td>
</tr>
<tr>
<td>Owen, Claudia B.</td>
<td>B.S. Stanford Univ.; M.S. Univ. Washington; Ph.D. Univ. Washington</td>
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<tr>
<td>Rice, Andrea E.</td>
<td>B.S. Univ. Calif Los Angeles; B.A. Univ. of Freiburg - Germany; M.A. Univ. of Houston-Downtown Clg; M.S. Univ. of Oregon</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 A.A.O.T.</td>
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<td>Russin, Joseph A.</td>
<td>B.S. Suny Center Albany; M.S. Utah State Univ.; Secondary Teaching Certificate</td>
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<td>Sproles, Eric A.</td>
<td>B.S. Florida State Univ.; M.S. Univ. of Oregon</td>
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<td>Stearns, George W.</td>
<td>B.S. Texas A&amp;M Univ.- Clg Station; M.S. Washington State Univ.; Ph.D. Univ. Nebraska Lin CoL</td>
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<tr>
<td>Turnbull, Lisa C.</td>
<td>B.S. Univ. Puget Sound; Ph.D. Univ. of Oregon</td>
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<tr>
<td>West, Stephen L.</td>
<td>B.S. Linfield Col.</td>
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**Social Science**

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<tr>
<th>Name</th>
<th>Degree/Institution</th>
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<tbody>
<tr>
<td>Beane, Melinda L.</td>
<td>B.A. Univ. Colorado Boulder; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
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<tr>
<td>Candee, Stephen M.</td>
<td>B.S. Univ. of Oregon; M.S. Univ. of Oregon</td>
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<tr>
<td>Cordova, Micah S.</td>
<td>B.A. New Mexico Highlands Univ.; M.A. Cuny Hunter Col.</td>
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<tr>
<td>Davidson Sprado, Katherine D.</td>
<td>B.A. Univ. Calif Santa Barbara; M.A. Univ. Calif Los Angeles</td>
</tr>
<tr>
<td>Davie, Sandra S.</td>
<td>B.S. Warner Pacific Col.; M.A. George Fox Univ.</td>
</tr>
<tr>
<td>Delf, Gregory B.</td>
<td>B.A. Univ. Iowa; M.A. Univ. Iowa</td>
</tr>
<tr>
<td>Donavin, Kirkwood W.</td>
<td>A.A. Santa Rosa Junior Col.; B.A. Calif St Univ. Sacramento; M.A. Calif St Univ. Sacramento; C.M.A.</td>
</tr>
<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>Ingalsbee, Timothy L.</td>
<td>B.A. Univ. of Oregon; M.A. Univ. of Oregon; M.A. Univ. of Oregon; Ph.D. Univ. of Oregon; Ph.D. Univ. of Oregon</td>
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<tr>
<td>Kim, Eric L.</td>
<td>B.S. Univ. Idaho; M.S. Univ. of Oregon</td>
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<td>Kolbuss, Lisa M.</td>
<td>B.S. Northwest Christian Univ.; M.S. 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>
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Information reflects Human Resource records as of April 2017
Logan, David M.  B.A. Univ. of Oregon; J.D. Willamette Univ.
Lugenbehl, Dale E.  B.A. Calif St Univ. Long Beach; M.A. Calif St Univ. Long Beach; M.A. Univ. Calif San Diego
Lundquist, Caroline R.
Obersinner, Eugene A.  B.A. Univ. of Oregon; M.S.W. San Diego State Univ.
OGrady, Pat  B.S. Univ. of Oregon; M.S. Univ. of Oregon
Olalde, Janese C.  B.A. Univ. of Oregon; M.Ed. Univ. of Oregon
Pastor, Robert F.  B.S. Northern Illinois Univ.; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon
Information reflects Human Resource records as of April 2017

Raney, Patsy  B.A. Univ. Tulsa; M.A. Univ. of Oregon
Riedel, Jennifer E.  B.S. Calif St Univ. Sacramento; M.P.H. Univ. Calif Berkeley
Sanchez, Bruce K.  B.A. Univ. of Oregon; M.A. Univ. of Oregon
Servis, Will R.  B.A. Va Polytechnic Inst Tint Srch; M.A. Va Polytechnic Inst Tint Srch
Seidel, Jonathan L.  B.A. Oberlin Col.; M.A. Jewish Theol Seminary America; Ph.D. Univ. Calif Berkeley
Smith, Clinton R.  B.A. Univ. Calif Santa Cruz; M.S. Univ. of Oregon; Ph.D. Univ. of Oregon
Smith, Gerald D.  B.S. Univ. of Oregon;

M.S. Univ. of Oregon
Washburn, Sarah H.  B.A. San Francisco State Univ.; M.A. Univ. Nevada Las Vegas

Torch
Deitz, Charles E.  A.A.S. Mount Hood Community Col.; B.A. Montclair State Univ.; M.S. Univ. of Oregon

Women’s Programs
Guerrero, Maria C.  B.A. Univ. of Oregon;
M.S. Univ. of Oregon
## Index

### A

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>About Lane</td>
<td>2</td>
</tr>
<tr>
<td>Academic Advising</td>
<td>3</td>
</tr>
<tr>
<td>Academic Calendar</td>
<td>4</td>
</tr>
<tr>
<td>Academic Learning Skills</td>
<td>5</td>
</tr>
<tr>
<td>Academic Probation</td>
<td>6</td>
</tr>
<tr>
<td>Academic Programs</td>
<td>7</td>
</tr>
<tr>
<td>Academic Programs Schedule</td>
<td>8</td>
</tr>
<tr>
<td>Academic Requirements Review Committee</td>
<td>9</td>
</tr>
<tr>
<td>Academic Standards</td>
<td>10</td>
</tr>
<tr>
<td>Academic Progress Standards and Alert System</td>
<td>11</td>
</tr>
<tr>
<td>Accounting Applications Option</td>
<td>12</td>
</tr>
<tr>
<td>Accounting Program</td>
<td>13</td>
</tr>
<tr>
<td>Accounting Courses</td>
<td>14</td>
</tr>
<tr>
<td>Accreditation</td>
<td>15</td>
</tr>
<tr>
<td>Acting (See Theatre Arts)</td>
<td>16</td>
</tr>
<tr>
<td>Administration</td>
<td>17</td>
</tr>
<tr>
<td>Administrative Office Professional</td>
<td>18</td>
</tr>
<tr>
<td>Administrative Support Courses</td>
<td>19</td>
</tr>
<tr>
<td>Admission</td>
<td>20</td>
</tr>
<tr>
<td>Adult Basic Education/GED Program</td>
<td>21</td>
</tr>
<tr>
<td>Adult Development</td>
<td>22</td>
</tr>
<tr>
<td>Advising</td>
<td>23</td>
</tr>
<tr>
<td>Advisory Committees</td>
<td>24</td>
</tr>
<tr>
<td>Affirmative Action</td>
<td>25</td>
</tr>
<tr>
<td>Statement</td>
<td></td>
</tr>
<tr>
<td>Agricultural Equipment/Mechanics</td>
<td></td>
</tr>
<tr>
<td>(See Diesel)</td>
<td></td>
</tr>
<tr>
<td>Air Conditioning (See Automotive, Diesel)</td>
<td></td>
</tr>
<tr>
<td>American Indian Experience Transfer</td>
<td>26</td>
</tr>
<tr>
<td>Animal Sciences, pre-vet option</td>
<td>27</td>
</tr>
<tr>
<td>Antaomy/Physiology/</td>
<td>28</td>
</tr>
<tr>
<td>Microbiology Courses</td>
<td>29</td>
</tr>
<tr>
<td>Anthropology Courses</td>
<td>30</td>
</tr>
<tr>
<td>Anthropology Transfer</td>
<td>31</td>
</tr>
<tr>
<td>Apprenticeship Courses</td>
<td>32</td>
</tr>
<tr>
<td>Approved Courses for Oregon</td>
<td>33</td>
</tr>
<tr>
<td>Transfer Degrees and Oregon Transfer Module</td>
<td>34</td>
</tr>
<tr>
<td>Architecture</td>
<td>35</td>
</tr>
<tr>
<td>(See Drafting and Engineering)</td>
<td></td>
</tr>
<tr>
<td>Areas of Interest, Transfer</td>
<td>36</td>
</tr>
<tr>
<td>Art History Courses</td>
<td>37</td>
</tr>
<tr>
<td>Art, Studio Courses</td>
<td>38</td>
</tr>
<tr>
<td>Art Transfer</td>
<td>39</td>
</tr>
<tr>
<td>Asian Pacific Islander Student Union</td>
<td>40</td>
</tr>
<tr>
<td>Ask Lane</td>
<td>41</td>
</tr>
<tr>
<td>ASLCC (Associated Students of Lane Community College)</td>
<td>42</td>
</tr>
</tbody>
</table>

### B

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audit</td>
<td>43</td>
</tr>
<tr>
<td>Automotive Courses</td>
<td>44</td>
</tr>
<tr>
<td>Automotive Collision and Refinishing Courses</td>
<td>45</td>
</tr>
<tr>
<td>Automotive Technology Program</td>
<td>46</td>
</tr>
<tr>
<td>Aviation Academy</td>
<td>47</td>
</tr>
<tr>
<td>Aviation Maintenance Courses</td>
<td>48</td>
</tr>
<tr>
<td>Aviation Maintenance Technician Program</td>
<td>49</td>
</tr>
<tr>
<td>Awards</td>
<td>50</td>
</tr>
<tr>
<td>Baking and Pastry</td>
<td>51</td>
</tr>
<tr>
<td>Basic Health Care</td>
<td>52</td>
</tr>
<tr>
<td>Biochemistry Transfer</td>
<td>53</td>
</tr>
<tr>
<td>Biology Courses</td>
<td>54</td>
</tr>
<tr>
<td>Biology Transfer</td>
<td>55</td>
</tr>
<tr>
<td>Black Student Union</td>
<td>56</td>
</tr>
<tr>
<td>Board of Education, Lane</td>
<td>57</td>
</tr>
<tr>
<td>Board of Education, Oregon</td>
<td>58</td>
</tr>
<tr>
<td>Bookstore</td>
<td>59</td>
</tr>
<tr>
<td>Botany (See Biology)</td>
<td>60</td>
</tr>
<tr>
<td>Broadcasting(See Media Arts)</td>
<td>61</td>
</tr>
<tr>
<td>Budget Committee, Lane</td>
<td>62</td>
</tr>
<tr>
<td>Building Controls Technician Option</td>
<td>63</td>
</tr>
<tr>
<td>Bus Pass</td>
<td>64</td>
</tr>
<tr>
<td>Business Administration</td>
<td>65</td>
</tr>
<tr>
<td>Business and Accounting Transfer</td>
<td>66</td>
</tr>
<tr>
<td>Business and Workforce Development</td>
<td>67</td>
</tr>
<tr>
<td>Business Assistant Program</td>
<td>68</td>
</tr>
<tr>
<td>Business Courses</td>
<td>69</td>
</tr>
<tr>
<td>Business Program Management</td>
<td>70</td>
</tr>
<tr>
<td>Business Transfer Degree</td>
<td>71</td>
</tr>
<tr>
<td>Oregon Transfer Monitor</td>
<td>72</td>
</tr>
<tr>
<td>Architectural Engineering</td>
<td>73</td>
</tr>
<tr>
<td>Associate of Applied Science</td>
<td>74</td>
</tr>
<tr>
<td>Associate of Arts Oregon Transfer</td>
<td>75</td>
</tr>
<tr>
<td>Associate of General Studies</td>
<td>76</td>
</tr>
<tr>
<td>Associate of Science Degree</td>
<td>77</td>
</tr>
<tr>
<td>Associate of Science Oregon Transfer:</td>
<td>78</td>
</tr>
<tr>
<td>Business</td>
<td>79</td>
</tr>
<tr>
<td>Associate of Science Oregon Transfer:</td>
<td>80</td>
</tr>
<tr>
<td>Business Computer</td>
<td>81</td>
</tr>
<tr>
<td>Associate of Science:</td>
<td>82</td>
</tr>
<tr>
<td>OSU</td>
<td>83</td>
</tr>
<tr>
<td>Associate of Science:</td>
<td>84</td>
</tr>
<tr>
<td>UO</td>
<td>85</td>
</tr>
<tr>
<td>Astronomy (See Physics)</td>
<td>86</td>
</tr>
<tr>
<td>Attendance</td>
<td>87</td>
</tr>
<tr>
<td>Audio (See Media Arts)</td>
<td>88</td>
</tr>
</tbody>
</table>

### C

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD, CADD (See Drafting and Engineering Technician)</td>
<td>89</td>
</tr>
<tr>
<td>CAM (See Manufacturing)</td>
<td>90</td>
</tr>
<tr>
<td>CNC (See Manufacturing)</td>
<td>91</td>
</tr>
<tr>
<td>Calendar, Academic</td>
<td>92</td>
</tr>
<tr>
<td>Campus Map</td>
<td>93</td>
</tr>
<tr>
<td>Career Center</td>
<td>94</td>
</tr>
<tr>
<td>Career Development Courses</td>
<td>95</td>
</tr>
<tr>
<td>Career Pathway Certificates</td>
<td>96</td>
</tr>
<tr>
<td>Career Technical Certificate</td>
<td>97</td>
</tr>
<tr>
<td>Career Technical Course Prefixes</td>
<td>98</td>
</tr>
<tr>
<td>Career Technical Programs</td>
<td>99</td>
</tr>
<tr>
<td>Catalog</td>
<td>100</td>
</tr>
<tr>
<td>Center for Accessible Resources</td>
<td>101</td>
</tr>
<tr>
<td>Center for Meeting and Learning</td>
<td>102</td>
</tr>
<tr>
<td>Centro Multi-Cultural</td>
<td>103</td>
</tr>
<tr>
<td>Certificates</td>
<td>104</td>
</tr>
<tr>
<td>Certified Medical Assistant (See Medical Assistant)</td>
<td>105</td>
</tr>
<tr>
<td>Chemical Dependency</td>
<td>106</td>
</tr>
<tr>
<td>(See Human Services)</td>
<td>107</td>
</tr>
<tr>
<td>Chemistry Courses</td>
<td>108</td>
</tr>
<tr>
<td>Child Development (See Early Childhood Education)</td>
<td>109</td>
</tr>
<tr>
<td>Child and Family Education Department</td>
<td>110</td>
</tr>
<tr>
<td>Child Care</td>
<td>111</td>
</tr>
<tr>
<td>Civil Engineering Transfer</td>
<td>112</td>
</tr>
<tr>
<td>Class Schedule</td>
<td>113</td>
</tr>
<tr>
<td>Clubs and Organizations</td>
<td>114</td>
</tr>
<tr>
<td>College District</td>
<td>115</td>
</tr>
<tr>
<td>College Level Examination Program</td>
<td>116</td>
</tr>
<tr>
<td>College Preparation (See Study Skills)</td>
<td>117</td>
</tr>
<tr>
<td>College Success Courses</td>
<td>118</td>
</tr>
<tr>
<td>Communications Courses</td>
<td>119</td>
</tr>
<tr>
<td>Community Center for Family Counseling</td>
<td>120</td>
</tr>
<tr>
<td>Community Health Worker</td>
<td>121</td>
</tr>
<tr>
<td>Community Health Worker Certification</td>
<td>122</td>
</tr>
<tr>
<td>Community Services</td>
<td>123</td>
</tr>
<tr>
<td>Como Empzar en Lane</td>
<td>124</td>
</tr>
<tr>
<td>Complaint Procedure</td>
<td>125</td>
</tr>
<tr>
<td>Computer Hardware Repair (See Electronics)</td>
<td>126</td>
</tr>
<tr>
<td>Computer Information Science Transfer</td>
<td>127</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>128</td>
</tr>
<tr>
<td>Computer Labs</td>
<td>129</td>
</tr>
<tr>
<td>Computer Network Monitoring and Management</td>
<td>130</td>
</tr>
<tr>
<td>Computer Network Operations</td>
<td>131</td>
</tr>
<tr>
<td>Computer Network Security</td>
<td>132</td>
</tr>
<tr>
<td>Computer Programming Program</td>
<td>133</td>
</tr>
<tr>
<td>Computer Simulation and Game Development</td>
<td>134</td>
</tr>
<tr>
<td>Computer Training (noncredit)</td>
<td>135</td>
</tr>
<tr>
<td>Computers: Introduction/Information Systems/Computer Science Courses</td>
<td>136</td>
</tr>
<tr>
<td>Computers: Keyboarding Courses</td>
<td>137</td>
</tr>
<tr>
<td>Computers: Software Courses</td>
<td>138</td>
</tr>
<tr>
<td>Construction Courses</td>
<td>139</td>
</tr>
<tr>
<td>Construction Technology Program</td>
<td>140</td>
</tr>
<tr>
<td>Construction Trades</td>
<td>141</td>
</tr>
<tr>
<td>Continuing Education Training Programs</td>
<td>142</td>
</tr>
<tr>
<td>Cooperative Education</td>
<td>143</td>
</tr>
<tr>
<td>(Also See specific programs and course descriptions)</td>
<td>144</td>
</tr>
<tr>
<td>Cooperative Education, International</td>
<td>145</td>
</tr>
<tr>
<td>Cooperative Education/Internships Courses</td>
<td>146</td>
</tr>
<tr>
<td>Core College Classes</td>
<td>147</td>
</tr>
<tr>
<td>Core Themes</td>
<td>148</td>
</tr>
<tr>
<td>Cottage Grove Campus</td>
<td>149</td>
</tr>
<tr>
<td>Counseling and Advising</td>
<td>150</td>
</tr>
<tr>
<td>Course Descriptions</td>
<td>151</td>
</tr>
<tr>
<td>Accounting</td>
<td>152</td>
</tr>
<tr>
<td>Administrative Support</td>
<td>153</td>
</tr>
<tr>
<td>Anthropology</td>
<td>154</td>
</tr>
<tr>
<td>Anthropology/Physiology/Microbiology</td>
<td>155</td>
</tr>
<tr>
<td>Apprenticeship</td>
<td>156</td>
</tr>
<tr>
<td>Art History</td>
<td>157</td>
</tr>
<tr>
<td>Art, Studio</td>
<td>158</td>
</tr>
<tr>
<td>Auto Collision and Refinishing</td>
<td>159</td>
</tr>
<tr>
<td>Automotive</td>
<td>160</td>
</tr>
<tr>
<td>Aviation Maintenance</td>
<td>161</td>
</tr>
</tbody>
</table>
Psychology ........................................ 250
Respiratory Care ................................ 250-252
Sociology ......................................... 252
Student Leadership Development .......... 252-253
Study Skills and College Prep..........253-254
Theatre Arts ..................................... 254
Tutoring ......................................... 254
Water Conservation ............................ 254-255
Watershed Science ............................. 255-256
Women in Transition ......................... 256
Women's Studies ............................... 256
Writing ........................................... 256-258

Course Numbers ................................ 59-60
Credit-by-Assessment .......................... 21
Credit-by-Examination ........................ 21
Credit for Prior Learning ........................ 21
Credit Programs ................................ 71-148
Credits ........................................... 31, 60
Credit Student Outcomes ..................... 31-32
Criminal Justice Courses ..................... 198-199
Criminal Justice: Juvenile Corrections ...... 93-94
Criminal Justice Program ........................ 92-93
Culinary Arts and Foodservice Management Program ................. 94-96
Culinary Arts Courses .......................... 199-200
Curriculum for High School Students .......... 14
Customer Service Certificate ................ 74
Customized Training ............................ 284-286

D

Dance Transfer .................................... 157-158
Dance Courses .................................... 200-201
Dance Productions ............................... 24-25
Database Specialist .............................. 86
Deferred Billing Terms Agreement ............ 16-17
Definitions ....................................... 59-64
Degree and Certificate Overview .............. 30-32
Denali ............................................. 26
Dental Assisting Courses ....................... 201-202
Dental Assisting Program ....................... 96-98
Dental Hygiene Courses ......................... 202-203
Dental Hygiene Program ......................... 98-99
Dental Hygiene Transfer ........................ 174-175
Determination of Residency .......................... 15-16
Diesel and Heavy Equipment .................... 203-204
Diesel Technology Program ................. 99-101
Differential Pricing Program ....................... 15
Disciplinary Action ................................ 68
Disclosure Statement ........................... 61
Distance Learning ................................ 14
Downtown Campus ................................ 8
Drafting Courses ................................. 204-205
Drafting Program ................................ 101-103
Drama (See Theatre Arts) ........................
Dropping a Class ................................... 61
Drug and Alcohol Statement ..................... 65-66

Early Childhood Education Courses ............. 205-206

Early Childhood Education Program ............. 103-106
Early Childhood Teacher Aide 1 .......... 105-106
Early Childhood Education Transfer .......... 158-161
Earth and Environmental Science .......... 206
Economics Courses .............................. 206-207
Economics Transfer ............................. 158-159
Education Courses .............................. 207
Education-Doubl e Degree ....................... 159-160
Electrician Apprenticeship ........................
Technologies ..................................... 106-110
Electronics Courses ............................. 207-208
Elementary Education and Early Childhood Education Transfer .......... 161
Email Accounts ................................... 24
Emergency Medical/Paramedic Courses ............. 208-209
Emergency Medical Technician .......... 141-142
Emergency Medical Technology (See Paramedicine) .................
Energy Management Courses ................. 209-210
Energy Management Technician (ONLINE) Program ................. 110-112
Engineering (See Drafting, Electronics, Engineering Transfer) .............
Engineering, Civil Transfer ..................... 161-162
Engineering, Environmental Transfer ............. 162-163
Engineering, Mechanical Transfer .......... 163-164
Engineering Transfer Courses ................ 211
English as a Second Language ................. 260
English as a Second Language Courses (See Study Skills and College Preparation; also noncredit classes) ...........
English Courses (See Literature, Writing) .............
English Transfer ................................ 164
Enrollment ........................................ 4
Enrollment and Student Financial Services ................. 5, 21, 60
Equal Opportunity inside back cover
Español ........................................ 6, 260
Ethnic Studies Transfer .......................... 165
Ethnic Studies Courses .......................... 211-212
Exercise and Movement Science .............. 112
Exercise and Movement Science Courses ............. 212-213
Exercise and Sport Science Transfer ............ 177
Expenses ........................................... 15

F

Fabrication/Welding Courses .................. 213
Fabrication/Welding Technology Program ............. 113-116
Facilities .......................................... 8
Faculty ........................................... 268-275
FAFSA ............................................ 16
Family Connections ................................ 20
Family Studies (See Human Relations) ...........
Fees and Expenses ................................ 15
Fee Refunds ....................................... 17-18
Film (See Literature, Media Studies, and Political Science) ...........
Financial Aid .................................... 16, 21, 60
Fitness Education Center ....................... 24
Human Services Courses 222-223
Human Services Program 124-126
Humanities Courses 223
Hybrid Courses 60

Immunizations 11, 22
Incomplete 63
In-District Students 15
Industrial Mechanics and Maintenance Technology 126-128
Infant and Toddler 106
Inglés Como Segundo Idioma 260
Instructional Staff 268-275
Intercollegiate Athletics 24
International Cooperative Education 13
International Student Admission 10
International Student Program 10, 23
International Students 10, 23, 260
Internet (See Business and Computers: Introduction)
Internships/Work Experience (See Cooperative Education)
Intoxicants, Use of 26, 65-66

Job Search Assistance 19
Journalism Courses 224
Journalism Transfer 168-169
Juvenile Corrections Program 93-94

KLCC-FM Radio 262

“L” Number 60
Lane Board of Education 266
Lane Budget Committee 267
Lane Catering 262
Lane Child and Family Center 20
Lane Foundation 267
Lane Transit District 8
LaneOnline 14
Language Studies Courses 224-226
Late Fees 17
Learning Assessment 31
Legal Assistant Courses 226
Legal Office Skills 75-76
Legal Services, Student 23
Library 23
Library Courses 226
Limited Electrician Apprenticeship Technologies 109-110
Literature Courses 226-230
Live Interactive Courses 14
Locations and Maps 8-9

Machine Shop, Machine Tools (See Manufacturing)

Management (See Business/Management and Culinary)
Manufacturing Courses 230-231
Manufacturing Technology Program 128-131
Manufacturing Technology: Computer Numerical Control (CNC) Technician Option 130-131
Map, Lane Campus 8
Massage Therapy Pre-licensure 259
Mathematics Courses 231-234
MEChA 25
Mechanical Engineering Transfer 163-164
Mechanics (See Automotive, Aviation, Diesel)
Media Arts Courses 234-236
Medical Assistant Program 131-132
Medical Assisting Courses 236-237
Medical Coding 121-122
Meeting, Convention, and Special Events Manager 124
Microbiology (See Anatomy/Physiology/Microbiology)
MiDi Production 136-138
Mission Statement 280
Mobile Application Development 66-67
Money Matters 15-18
Multicultural Center 25
Multimedia Design Program 133-135
Music Courses 237-240
Music, Dance and Theatre Arts 23-24
Music Lessons Courses 240-241
Music Technology and Production 135-138
Music Transfer 169-170
myGrad Plan 60
myLane 60

National Career Readiness 265
Native American Student Association 26
New Student Information 11
Noncredit Programs 259
Nursing Courses 241-242
Nursing Assistant 259
Nursing Program 138-141
Nutrition Courses 243

Off-Campus Centers 8
Office Assistant (See Administrative Support)
Office Software Specialist 74-75
Online Courses 14
Oregon Board of Education 267
Oregon Transfer Module 50
Out-of-District Students 15
Out-of-State Students 16
Outcomes Assessment 31
Outreach Centers 8
Overview of Academic Programs 12-14
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.

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

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 and VEVRAA. The college prohibits discrimination in admissions, employment, recruitment 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, expunged juvenile record, or veterans’ status, and all other protected categories as defined by federal or state law. The college intends to comply with all statutes that prohibit discrimination in education, including Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Americans with Disabilities Act of 1990 and the Americans with Disabilities Amendments Act of 2008. The College also intends full compliance with the Title IX sexual harassment prevention requirements. The college shall take timely actions to prevent, correct, and if necessary, discipline behavior that violates harassment and discrimination guidelines. This commitment is made by the college in accordance with federal, state, and local laws and regulations, as well as in alignment with college policies and procedures. Inquiries may be directed to the Chief Human Resource Officer, Lane Community College, 4000 East 30th Avenue, Eugene, Oregon 97405-0640, 541.463.5585. Inquiries regarding Title IX may be directed to Terrie Minner, Interim Associate Dean for Accessibility and Support, 541.463.3010, or to the Title IX deputies Carl Yeh, Director of Student Standards, 541.463.5787, or to Dennis Carr, Chief Human Resource Officer, 541.463.5585. Inquiries regarding Section 504 may be directed to Dennis Carr, Chief Human Resource Officer and Section 504 Coordinator, Building 3, Room 114, 541.463.5585.
lacommunitycollege.edu

Think • Engage • Create • Communicate • Apply

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 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, 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 restructure 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 appropriate and effective 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 broaden perspectives
- Apply skills, abilities, theories or methodological gains in one situation to new situations to solve problems
- Use mathematics and quantitative reasoning to solve problems
- Integrate and reflect on experiences and learning from multiple and diverse contexts

The Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination, pregnancy, age, disability, religion, expunged juvenile record, or veterans’ status, and all other protected categories as defined by federal, state, and local laws and regulations, as well as in alignment with college policies and procedures. Inquiries may be directed to the Chief Human Resource Officer, Lane Community College, 4000 East 30th Avenue, Eugene, Oregon 97405-0640, 541.463.5585.

Core Theme 1: Responsive Community Engagement
As an engaged member of our community, Lane’s programs, services, and activities serve the community’s needs.

- Objective 1: Lane offers comprehensive programs that support individual and community needs
- Objective 2: Lane serves the intellectual and social needs of the community through non-academic programs and services

Core Theme 2: Accessible and Equitable Learning Opportunities
Lane’s policies, procedures, programs, and services facilitate open, fair, and just educational experiences.

- Objective 1: Lane minimizes barriers and maximizes opportunities for diverse student populations

Core Theme 3: Quality Educational Environment
Lane’s quality educational environment embraces academic and instructional integrity, relevancy, rigor, innovation, and transparency.

- Objective 1: Lane employs high impact practices
- Objective 2: Lane faculty and staff regularly engage in professional development
- Objective 3: Lane’s curricula are designed with intention to support discipline-level program-level, and college-wide learning outcomes

Core Theme 4: Individual Student Achievement
Lane’s students advance on their academic paths and educational goals.

- Objective 1: Students progress toward their educational goals
- Objective 2: Students complete their educational goals

Strategic Directions
Lane Community College’s 2016-2021 Strategic Plan provides a five-year framework for achieving objectives in support of our core themes of responsive community engagement, accessible and equitable learning opportunities, quality educational environment, and individual student achievement. Our 2016-2021 strategic plan builds upon our existing work around student success and effective institutional change, focusing on five interrelated strategic directions designed to advance this work in response to present and foreseeable needs:

- Commitment to Student Learning and Success
- A Culture of Teaching, Learning, and Innovation
- Access, Equity, and Inclusiveness through Social Justice
- Strengthened Community
- Financial and Environmental Stewardship

Lane Community College is committed to providing a diverse and inclusive learning environment that prepares students to succeed in all aspects of their lives. We are committed to providing a comprehensive and inclusive educational experience that empowers all students to achieve their educational goals. We are committed to providing a diverse and inclusive learning environment that prepares students to succeed in all aspects of their lives. We are committed to providing a comprehensive and inclusive educational experience that empowers all students to achieve their educational goals.
START YOUR SUCCESS HERE!

SCHOOL OF ARTS & SCIENCES

• Transfer programs
• Save at least $11,200* your first 2 years at Lane
• Just 25 students per class (average)

SCHOOL OF PROFESSIONAL & TECHNICAL CAREERS

• Real-world skills for today’s job market
• 2,000+ student internships annually
• One-year certificates and two-year degrees available

GET STARTED!

1. Apply online
2. Complete “Steps to Enroll”
3. Register for classes

lanecc.edu/esfs/admissions

*Compared to University of Oregon tuition and fees. AA/EEO/Vet/Disabilities Employer.

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