Computer Information Systems

Associate of Applied Science Degree
Accounting Application Option
Geographic Information Systems Option
Programming Option

2017 – 2018
Career Technical Programs

Computer Information
Technology Department
541.463.5221
lanec.edu

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 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 Meenanahan, 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 Fall
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 ................................ 4
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
MTH 095 Intermediate Algebra or higher .................. 5

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
BT 165 Introduction to the Accounting Cycle .......... 4
BT 272 Tax concepts and Preparation ..................... 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

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.

First Year
Fall
CIS 100 Computing Careers Exploration ..................... 1
CIS 140W Introduction to Operating Systems: Windows
Clients .................................................. 4
Choice of:
CS 206 Co-op Ed: Computer Information Technology Seminar ........................................ 2
CS 133P Beginning Programming: Python ................ 4
GIS 151 Digital Earth .................................... 4

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
GIS 151 Digital Earth .................................... 4

*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.
Computer Information Systems

Second Year

Fall
WR 227 Technical Writing .............................................. 4
CIS 195 Web Authoring 1 ............................................. 3
CS 233P Intermediate Programming: Python ....................... 4
DRF 167 CAD 1 .......................................................... 4

Winter
GIS 245 GIS 1 ............................................................. 4
DRF 220 Building Information Modeling ................................ 4
CS 275 Database Systems and Modeling ............................. 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
CIS 245 Project Management ........................................ 4
GIS 246 GIS 2 ............................................................. 4
CS 276 Database SQL Programming .................................. 4
CS 280IS Co-op Ed: Computer Information Systems .......... 3

Winter
HIM 101 Introduction to Health Care and Public Health in the US ................................................................. 4
CS 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
CS 133N Beginning Programming: C# .............................. 4
CS/CIS/GIS Elective ..................................................... 4

Winter
HIM 101 Introduction to Health Care and Public Health in the US ................................................................. 4
CS 125M Software Tools: Mobile Development .................. 4
CS 179 Introduction to Computer Networks ........................ 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
ART 288 Introduction to Web Design ................................ 3
CS 133JS Beg. Programming: JavaScript ........................... 4
CS 233N Intermediate Programming C# .......................... 4

Spring
CS 280IS Co-op Ed: Computer Information Systems ........... 3
CIS 245 Project Management ........................................ 4
CS 285P Web Development 1: PHP ................................ 4
CS 234N Advanced Programming: C# ............................ 4

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.)

Books ................................................................. $1,855
Program Specific Fees ........................................... $208
Resident Tuition and General Student Fees ...................... $10,060

Total Estimated Cost $12,123

*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
MTH 095 Intermediate Algebra or higher ......................... 5

To request this information in an alternate format please contact the Center for Accessible Resources at (541) 463-5150 or accessibleresources@lanecc.edu.

AA/EEO/Veterans/Disabilities Employer—7/17