



**2009-2010  
Career and Technical  
Programs**

**Computer  
Information  
Technology  
Department  
(541) 463-5826**

**One-Year Certificate  
of Completion**

# Computer Specialist

**Purpose** To prepare specialists in the use of computer information systems. Specialists use a computer's capabilities as a problem-solving tool for positions that require end-user knowledge of computer hardware, software, and operating procedures.

**Learning Outcomes** The graduate will:

- have a broad range of skills necessary to be an effective user of information systems.
- have core skills in the use of computers, as well as the related skill areas of mathematics and writing.
- use appropriate library and information resources to research user support issues, concepts, and tools and support lifelong technical learning.
- install and configure operating system software.
- interpret the concepts of a problem-solving task.
- manipulate variables using computer software applications.
- collect and display data as lists, tables, and charts using computer software.
- design web pages and post them to the internet.

**Employment Trends** The state economist forecasts 12 openings annually for Lane County over the next decade and 126 statewide in Oregon. This remains one of the fastest growing job categories in the county, state, and the nation.

**Wages** Starting wages in Lane County are \$16.85 per hour and \$35,048 annually; statewide in Oregon, starting wages are \$19.02 per hour and \$39,562 annually.

**Costs in Addition to Tuition (estimate)\***

Books and lab fees ..... \$1,800

Students taking courses using CIT labs are assessed a one-time fee up to \$28 per term. See the CIT department for details.

\* Subject to change without notice.

**Prerequisites** Students must qualify for WR 121, either by placement testing or completing prerequisite courses, and by the third term, qualify to begin MTH 095. Each student should consult with a counselor or advisor to plan a program of study.

**Cooperative Education (Co-op)** Co-op is an important part of the Computer Applications Specialist 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. Contact Larry Scott, Computer Specialist Co-op Coordinator, Bldg. 19, Rm. 154, (541) 463-5458, [scottl@lanecc.edu](mailto:scottl@lanecc.edu).

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**Program Counselor** Debby Ganser, Bldg. 16, Rm. 162L, (541) 463-5034, [ganserd@lanecc.edu](mailto:ganserd@lanecc.edu)

**Note** The curriculum for the Computer Specialist certificate is known as the "CIT Core." These courses provide a solid foundation in information technology. The first-year curriculum for the Computer Programming and Computer Network Operations degrees share these core courses. This means that students pursuing either of these degrees may change their degree goals during the first year with very little extra course work required.

# Computer Specialist

		<b>Fall</b>
CIS 100 Computing Careers Exploration <sup>D,G</sup> .....		2
CIS 102 Problem Solving with Computers <sup>D,G</sup> .....		4
CIS 125H Software Tools 1: XHTML <sup>D,G</sup> .....		3
CIS 140 Operating Systems: Managing Windows <sup>D,G</sup> .....		4
WR 121 English Composition: Exposition and Introduction to Argument <sup>*,W</sup> .....		4
<b>Total Credits</b>		<b>17</b>
		<b>Winter</b>
ART 288 Introduction to Web Design <sup>D,G</sup> .....		2
CIS 125D Software Tools 1: Databases <sup>D,G</sup> .....		4
CS 179 Introduction to Computer Networks <sup>*,D,G,S</sup> .....		4
Choice of: .....		4
CS 133 Beginning Programming <sup>*,D,G,S</sup>		
ET 287 Microcomputer Hardware <sup>D,G</sup>		
<b>Total Credits</b>		<b>14</b>
		<b>Spring</b>
CS 133JS Beginning Programming Javascript <sup>*,D,G,S</sup> .....		4
CG 203 Human Relations at Work <sup>H</sup> .....		3
Choice of: .....		4
CIS 227N Systems Support: Network and Operating Systems <sup>*,D,G</sup>		
CS 233 Intermediate Programming <sup>*,D,G</sup>		
MTH 095 Intermediate Algebra or higher <sup>*,M</sup> .....		5
<b>Total Credits</b>		<b>16</b>

Standard footnotes:

- \* Prerequisite required
- A Meets Arts/Letters requirement
- B Must be passed with grade of "B-" or better to use as a prerequisite
- D Degree or certificate requirement; must be passed with grade of "C-" or better
- G Must be taken for a grade, not P/NP; major requirement

- H Meets Human Relations/Social Science requirement
- M Meets Mathematics requirement
- P Meets PE/Health requirement
- R Required for AAS degree
- S Meets Science/Math/Computer Science requirement
- W Meets Written Communications or English Composition requirement