

# Computer Specialist

## One-Year Certificate of Completion Program

**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

- Lane County openings - 16 annually, projected through 2018
- Statewide openings - 158 annually, projected through 2018
- Annual National positions - 209,300 current; 236,800 projected through 2018

### Wages

- Average hourly rate in Lane County - \$20.14
- Average annual rate in Lane County - \$45,671
- Average hourly rate Statewide - \$22.20
- Average annual rate Statewide - \$48,694

### 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.

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**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.

	Fall
CIS 100 Computing Careers Exploration <sup>D,G</sup> .....	2
CIS 102 Problem Solving with Computers <sup>D,G</sup> .....	4
CIS 195 Web Authoring 1 <sup>D,G</sup> .....	3
CIS 140 Operating Systems: Managing Windows <sup>D,G</sup> .....	4
WR 121 Introduction to Academic Writing * .....	4
<b>Total Credits</b>	<b>17</b>

	Winter
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</sup> .....	4
Choice of: .....	4
CS 133C# Beginning Programming: C# <sup>*,D,G</sup>	
ET 287 Microcomputer Hardware <sup>D,G</sup>	
<b>Total Credits</b>	<b>14</b>

	Spring
CS 133JS Beginning Programming JavaScript <sup>*,D,G</sup> .....	4
CG 203 Human Relations at Work .....	3
Choice of: .....	4
CIS 227N Systems Support: Network and Operating Systems <sup>*,D,G</sup>	
CS 233N Intermediate Programming: .NET <sup>*,D,G</sup>	
MTH 095 Intermediate Algebra or higher * .....	5
<b>Total Credits</b>	<b>16</b>