

# COMPUTER & NETWORK ADMINISTRATION, CERTIFICATE

Program Code: CC.COMPNETADMIN

The Computer & Network Administration program prepares students for technical support careers specializing in network administration and maintenance. Students may earn either a one-year Certificate of Completion or two-year **Computer & Network Administration AAS**. The course work emphasizes development of analytical and problem-solving skills in addition to specific hardware and software configurations. Cooperative Work Experience (CWE) is supervised real-world employment that supplements the academic classroom environment.

For students interested in pursuing a bachelor's degree, the **Computer & Network Administration AAS** articulates to a Bachelor of Applied Science in Technology and Management at Oregon Tech.

## Oregon Tech Transfer Courses

The Computer Science program, in cooperation with Oregon Tech, offers a number of transferable classes into Oregon Tech's Bachelors of Applied Technology and Management degree program. Students planning to continue their studies at a four-year college should consult an advisor to obtain the most recent transfer information.

For information contact Rick Carino, 503-594-3167, or [rcarino@clackamas.edu](mailto:rcarino@clackamas.edu)

## Outcomes

### Related Instruction Outcomes

#### Computation

- 3 credits - See **Related Instruction** for course list
- Use appropriate mathematics to solve problems.

#### Communication

- 1 course - WR-101 Communication Skills: Occupational Writing or WR-121 English Composition
- Read actively, think critically, and write purposefully and capably for professional audiences.

#### Human Relations

- 3-4 credits - See **Related Instruction** for course list
- Engage in ethical communication processes that accomplish goals.

## Program Outcomes

Upon successful completion of this program, students should be able to:

- operate, install, manage, and troubleshoot major server operating systems;
- understand advanced network technologies and implement intricate internetwork infrastructures;
- understand and demonstrate basic computer and network security principles;
- develop, implement, and document an integrated information systems project;

- communicate the importance of professional and ethical responsibilities and be aware of codes of conduct and other sources of guidance for professionally ethical decision making;
- articulate and justify technical solutions to an audience through oral, written, and graphical communication.

## Requirements

Course	Title	Credits
<b>Fall Term</b>		
CS-140	Introduction to Operating Systems	4
CS-160	Computer Science Orientation	4
CS-225	Computer End User Support	3
CS-227	Computer Hardware & Repair	4
<b>Credits</b>		<b>15</b>
<b>Winter Term</b>		
CS-151	Networking I	4
CS-228	Computer OS Maintenance & Repair	4
CS-240W	Windows Desktop Administration	3
WR-101 or WR-121	Communication Skills: Occupational Writing or English Composition	3-4
<b>Credits</b>		<b>14-15</b>
<b>Spring Term</b>		
CS-152	Networking II	4
CS-240L	Linux Administration I	4
CS-279W	Windows Server Administration	4
<b>Credits</b>		<b>12</b>
<b>Summer Term</b>		
CS-125H	HTML & Web Site Design	3
CS-280	Computer Science/CWE	3
<b>Computation requirement</b>		3
<b>Human Relations requirement</b>		3-4
<b>Credits</b>		<b>12-13</b>
<b>Total Credits</b>		<b>53-55</b>

## Careers

Career opportunities include:

- network specialist
- computer service technician
- field engineer
- customer service engineer
- computer technician
- PC/LAN support specialist