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

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

Communication
- 1 course - WR-101 Workplace Writing or WR-227Z Technical Writing
- 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:

- explain basic troubleshooting processes and procedures from initial diagnosis to final documentation and reporting;
- explain and demonstrate how to interact and communicate effectively with people of different technical backgrounds and professional positions;
- operate, install, manage, and troubleshoot major desktop operating systems;
- identify, install, and troubleshoot computer and network hardware components;
- understand fundamental network technologies and implement a basic local area network;
- exhibit good teamwork skills and serve as effective members of project teams.

Requirements

Fall Term		Credits
CS-140	Introduction to Operating Systems	4.00
CS-227	Computer Hardware & Repair	4.00
WR-101 or WR-227Z	Workplace Writing or Technical Writing	4.00
	Credits	**12**
Winter Term		
CS-151	Networking 1	4.00
CS-228	Computer OS Maintenance & Repair	4.00
CS-240W	Windows Desktop Administration	3.00
Electives (p. 1)		3.00-5.00
	Credits	**14-16**
Spring Term		
CS-152	Networking 2	4.00
CS-225	Computer End User Support	3.00
CS-240L	Linux Administration I	4.00
CS-279W	Windows Server Administration	4.00
	Credits	**15**
Summer Term		
CS-125H	HTML & Web Site Design	4.00
CS-280	Computer Science/CWE	3.00
Computation requirement		3.00
Human Relations requirement		3.00-4.00
	Credits	**13-14**
	Total Credits	**54-57**

Electives

Code	Title	Credits
BA-101Z or BA-103	Introduction to Business Business Strategies for Computer Consultants	3.00-4.00
BA-120	Project Management Fundamentals	4.00
BA-264	Project Management Tools	3.00
FYE-101	First Year Experience Level I	2.00
WR-227Z	Technical Writing	4.00
Any CS course numbered CS-125 or higher not included in the program		3.00-4.00

Careers

Career opportunities include:

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