1.00

COMPUTER & NETWORK ADMINISTRATION, AAS

Program Code: AAS.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 Computer & Network Administration Certificate or two-year 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 & Network Administration program, in cooperation with Oregon Tech, offers a number of transferable classes into Oregon Tech's Bachelor 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

Physical Education/Health/Safety/First Aid

- 1 credit See Related Instruction for course list
- Use effective life skills to improve and maintain mental and physical well being

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;
- 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

First Year		
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. 2)		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 red	quirement	3.00
Human Relations requirement		3.00-4.00
	Credits	13-14
Second Year		
Fall Term		
CS-135DB	Microsoft Access	3.00
CS-153	Networking 3	4.00
CS-280	Computer Science/CWE	3.00
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PE/Health/Safety/First Aid requirement

Electives (p. 2)		3.00-4.00
	Credits	14-15
Winter Term		
CS-240M	macOS Administration	3.00
CS-275	Database Design	3.00
CS-284	Network Security	3.00
CS-288W	Windows Network Administration	4.00
	Credits	13
Spring Term		
CS-280	Computer Science/CWE	3.00
CS-297N	Networking Capstone	4.00
Electives (p. 2)		4.00
	Credits	11
	Total Credits	92-96

Electives

Code	Title	Credits		
BA-101Z	Introduction to Business	3.00-4.00		
or BA-103	Business Strategies for Computer Consultants			
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 3.00-4.00 program				

Careers

Career opportunities include:

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