

Information Technology Networking Infrastructure

Associate in Applied Science-Transfer Degree (AAS-T)
98-108 Credits

This degree program is designed to prepare graduates for employment in the fast-growing information technology field as network technicians, network administrators, and network engineers.

Network technicians and administrators install, support, and maintain an organization's network infrastructure. They also troubleshoot problems and monitor the network to ensure that performance and availability standards are met. Network engineers design, plan, implement and administer complex network environments.

Students in this degree program receive foundational training in a broad range of networking subjects, resulting in a balanced, well-rounded knowledge of planning, implementing, maintaining and troubleshooting networks, including the routers, switches, wireless networking, firewalls, and wiring infrastructure. In addition to the technical courses, students learn key interpersonal, critical thinking, and communication skills sought by employers. Each graduate of this program will complete a minimum of 150 hours of network management work experience.

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Dept./No.	Course Title	Credits
General Education Requirements: (25 credits)		
Bus& 101	Introduction to Business	5
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5
Math 147 or	Finite Mathematics for Business and Social Science or	
Math 108	Contemporary Math for Information Technology	5

NOTE: Students wishing to transfer to Central Washington University should take Math 147 and one of the following: (Math& 141, Math& 142, Math& 107, Math& 151 or Math& 148). Students who wish to transfer should meet with an academic advisor to ensure they take the appropriate classes to meet the transfer requirements.

Core Requirements: (79-89 credits)

* Keyboarding	30 wpm (5 minute typing test administered by Business Education department)	
IT 110 or	PC Support Tech I or	
	Achieve Microsoft MCDST Certification or	
	Achieve CompTIA A+ Certification	0-5

IT 115 or	PC Support Tech II or	
	Achieve CompTIA A+ Certification	0-5
IT 131 or	Networking Infrastructure Fundamentals or	
IT 210	Managing Cisco Routers and Switches	5
IT 132	Structured Cabling	2
IT 140	Customer Service for IT Professionals	5
IT 190	Linux Administration	5
IT 211	Routing Theory and Implementation	5
IT 212	Advanced Routing and Switching	5
IT 213	Implementing Wide Area Networking	5
IT 216	Implementing Firewalls	5
IT 240	Manage MS Windows (Current Version)	
	Network Environment	5
IT 272	Security Routers and Switches	5
IT 274	CCNA Exam Preparation	5
IT 285	Implementing and Securing Wireless Networks	5
IT 286	Implementing Voice Over IP (VOIP)	5
IT 291	Troubleshooting Networks	5
Practical Experience: <i>Six credits from the following courses:</i>		6
IT 171	IT Work Experience Seminar	(1)
IT 177	Network Administration Work Experience	(5)

* *Keyboarding/typing skills may be demonstrated by passing a 5-minute typing test at 30 wpm with 5 or less errors using the proper typing techniques administered by the Business Education department.*