



Network Administrator Associate of Applied Science (A.A.S.) 2018–2019

DESCRIPTION:

The Network Administrator A.A.S. degree provides networking knowledge, practical hands-on experience, and development of foundational workplace skills to prepare students for entry-level careers in network and computer systems administration. The curriculum focuses on networking for small-medium business networks to complex enterprise networks. Students will be exposed to various aspects of network hardware and software maintenance and monitoring, configuring, troubleshooting, diagnosing, and supporting local area networks (LANs), enterprise wide area networks (WANs), Internet systems such as Intranets, and Cloud networks. For more information, see csc.edu/computerscience.

ADMISSION REQUIREMENTS:

Applicants must place into Math 1148 (College Algebra) and English 1100 (Composition I).

ONGOING REQUIREMENTS:

As they progress through the Network Administrator A.A.S. degree program, students are prepared for and encouraged to study and complete industry certification exams. In addition, students in their second year are encouraged to secure and complete internships to gain valuable experience working with a team in the field of computer networking.

OPPORTUNITIES FOR GRADUATES:

Career:

Computer networks are a critical part of almost every organization, and as network systems continue to grow in health care, insurance, finance, government, manufacturing, utilities, and the educational sectors, the demand for these career positions is increasing. Graduates will be prepared to take an industry-recognized network certification (i.e., MCSE, MCSA, MCITP, Network+, Linux+) which will provide career opportunities as network administrators, system administrators, network specialists network analysts, and network engineers.

Transfer:

Graduates with the Network Administrator A.A.S. degree can seek transfer opportunities in Computer Engineering (B.S.), Network/System Administration (B.S.), and Network Security (B.S.).

DEGREE REQUIREMENTS (NETWORK ADMINISTRATOR A.A.S.):

FIRST SEMESTER

Course	Term	Credits	Milestones/Progress Check
CSCI1101 Computer Concepts & Applications	AU/SP/SU	3	<ul style="list-style-type: none"> Upon completion of CSCI 1152 Networking Concepts, Network Administrator and Cybersecurity students are prepared and encouraged to study and complete the CompTIA Network+ certification exam. Upon completion of CSCI 1152 Networking Concepts, Network Administrator students are encouraged to study and complete a Microsoft network certification exam.
CSCI 1152 Networking Concepts	AU/SP	3	
COLS 1100 First Year Experience Seminar	AU/SP/SU	1	
ENGL1100 Composition I	AU/SP/SU	3	
MATH 1148 College Algebra	AU/SP/SU	4	
Semester Credits		14	

SECOND SEMESTER

Course	Term	Credits	Milestones/Progress Check
CSCI 1103 Introduction to Programming Logic	AU/SU	3	<ul style="list-style-type: none"> Upon completion of CSCI 1772, Network Administrator students are encouraged to study and complete a Microsoft network certification exam.
CSCI 1772 Networking I	SP	3	
MATH 1149 Trigonometry	AU/SP/SU	4	
SBS Elective (select from list)	AU/SP/SU	3	
Semester Credits		13	

THIRD SEMESTER

Course	Term	Credits	Milestones/Progress Check
CSCI 2770 Network Communication & TCP/IP	SU	3	
MATH 1151 Calculus I	AU/SP/SU	5	
Semester Credits		8	

FOURTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
ACCT 1211 Financial Accounting	AU/SP/SU	3	<ul style="list-style-type: none"> During this semester, Network Administrator students should contact the Division Internship Coordinator to secure an internship or register for the CSCI 2999 Capstone course. Upon completion of CSCI 2790, students are encouraged to study and complete the Linux network certification exam.
CSCI 1145 HTML	AU/SP	3	
CSCI 2774 Networking 2 (upon completion, students are encouraged to study and complete a Microsoft network certification exam)	AU	3	
CSCI 1275 Systems Analysis with Agile Development Framework	AU/SU	3	
CSCI 2790 Linux Administration (Linux+)	AU	3	
Semester Credits		15	

FIFTH SEMESTER

Course	Term	Credits	Milestones/Progress Check	
CRJ 2021 Introduction to Cyber Law	AU/SP/SU	3	<ul style="list-style-type: none"> Students in CSCI 2778 work in groups to design, develop, complete and present Wireless Network Solution for a customer. Upon completion of CSCI 2778, Network Administrator students are eligible to receive their Network Administrator Certificate. 	
NAT Elective (refer to approved NAT elective list)	AU/SP/SU	3		
CSCI 2778 Wireless, Voice, and Mobile Communications	AU/SP	3		
CSCI 2792 Virtualization	SP	2		
CSCI 2802 & CSCI 2902 -or- CSCI 2999 CSCI Seminar (1) & CSCI 2902 Practicum (3) CSCI Capstone (3)	On Demand	3-4		
Semester Credits		14-15		
Total		64-65		

AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester
Requirements subject to change.