

Computing and Information Technology - Cyber Security - Network Security

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 60

DEGREE CODE: CITCSNSAAS

DESCRIPTION

This degree provides students with the necessary education and skills required by today’s Network Security specialists. Instruction includes courses on server/client centric security issues as well as router/switch centric security issues. It provides students with a wide array of training in various functional areas related to network security. Completion of this course of study prepares students for successful completion of a number of industry certification exams; such as CompTia Security+, Cisco CCNA: Security, and others.

STUDENT LEARNING OUTCOMES

- Evaluate computer hardware and software.
- Develop organization security policies.
- Explain how to use networking tools and devices to detect and mitigate security attacks.
- Manage the security of a network system.
- Manage a networking project.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (22 CREDITS)

MATHEMATICS (3 credits)

Required: MATH 116 Technical Mathematics

ENGLISH COMPOSITION (3 credits)

Required: ENG 107 Technical Communications

COMMUNICATIONS (3 credits)

Required: COM 115 Applied Communication

HUMAN RELATIONS (3 credits)

ALS 101; ANTH 101, 112, 201, 205; HIST 105, 106, 107, 150, 151, 210, 247, 260; HMS 130, 135B, 265B; MGT 100B, 283; PHIL 135; PSC 201; PSY 101, 102, 207, 208, 261; SOC 101 or above

NATURAL SCIENCE (3 credits)

Required: EGG 131 Technical Physics I

FINE ARTS/HUMANITIES/SOCIAL SCIENCES (3 credits)

AM 145 or above; ANTH 101 or above (except 102); ART 101 or above; COM 101 or above; ECON 100 or above; ENG 223 or above; GEOG 106 or above; HIST 101 or above; International Languages 101B or above; MUS 101 or above; PHIL 101 or above; PSC 101 or above; PSY 101 or above; SOC 101 or above; THTR 100 or above; WMST 113

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)

PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217

SPECIAL PROGRAM REQUIREMENTS (38 CREDITS)

CORE REQUIREMENTS (38 credits)

CF 118B	Internet Forensics	3
CIT 112B	Network+	3
CIT 173	Introduction to Linux	3
CIT 174	Linux System Administration	3
CIT 217	Security+	3
CIT 263B	Project Management	3
CSCO 120	CCNA Internetworking Fundamentals	4
CSCO 121	CCNA Routing and Switching Essentials	4
CSCO 220	CCNA Scaling Networks	4
CSCO 221	CCNA WAN Fundamentals	4
CSCO 230B	Fundamentals of Network Security	4

Choose one from the following (0-3 credits)

IS 100B	Core Computing Competency	0
IS 101	Introduction to Information Systems	3

See Degree Plan on next page.

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



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FULL-TIME STUDENT DEGREE PLAN

Plan can be modified to fit the needs of part-time students by adding more semesters.

FIRST SEMESTER	Credits
MATH 116 Technical Mathematics	3
ENG 107 Technical Communications I	3
COM 115 Applied Communication	3
CIT 173 Introduction to Linux	3
IS 100B or IS 101	0-3
TOTAL CREDITS	12-15

SECOND SEMESTER	Credits
Complete Human Relations (see courses previous page)	3
EGG 131 Technical Physics I	3
Complete US/Nevada Constitutions ¹ (see courses previous page)	4-6
CIT 112B Network+	3
CIT 174 Linux System Administration	3
TOTAL CREDITS	16-18

THIRD SEMESTER	Credits
Complete Fine Arts/Humanities/Social Science (see courses previous page)	3
CF 118B Internet Forensics	3
CIT 217 Security+	3
CSCO 120 CCNA Internetworking Fundamentals	4
CSCO 121 CCNA Routing and Switching Essentials ²	4
TOTAL CREDITS	17

FOURTH SEMESTER	Credits
CIT 263B Project Management	3
CSCO 220 CCNA Scaling Networks	4
CSCO 221 CCNA Wan Fundamentals ³	4
CSCO 230B Fundamentals of Network Security	4
TOTAL CREDITS	15

DEGREE PLAN TOTAL CREDITS..... **60-65**

¹PSC 101 completes this requirement at 4 credits. If student is completing IS 100B and chooses the HIST option, complete HIST 101 in the first semester and take HIST 102 or 217 in the second semester.

²Prerequisite CSCO 120. Contact the Department of Computing and Information Technology for permission to complete this class in the same semester as the prerequisite course.

³Prerequisite CSCO 220. Contact the Department of Computing and Information Technology for permission to complete this class in the same semester as the prerequisite course.

