

**ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)**

This Associate of Applied Science Degree in Electronics Engineering Technology – Network Security Emphasis prepares students with the necessary skills required by today’s computer networking security industry. Instruction includes five semesters of Cisco Networking Academy courses that lead to certifications in networking and network security, electronics and digital circuits, structured cabling, network security management and a selection of related courses such as Novell or Microsoft operating systems.

This two-year course of study includes the skills necessary to install, maintain, troubleshoot, repair and manage network security infrastructure. Instruction takes place in a hands-on, state-of-the-art environment.

**STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:**

- Design the physical and logical topology of a network for security and functionality and distinguish specific types of network security threats.
- Demonstrate understanding of the security aspects of structured cabling.
- Understand organization’s network security philosophies, policies and procedures, as they affect the selection of appropriate security hardware, software, and configurations.
- Identify the key aspects of an organizations response to an intrusion, the response plan, incident determination, and incident containment.
- Understand and apply electronic and digital logic concepts to network and security design.

**GENERAL EDUCATION REQUIREMENTS (27 Credits):**

|   | CR  | SEMESTER |
|---|-----|----------|
| <b>COMMUNICATIONS:</b><br>ENG 107   | 3   | _____    |
| <b>ENGLISH:</b><br>ENG 100, 101, 113  | 3-5 | _____    |
| <b>HUMAN RELATIONS:</b><br>ALS 101, ANTH 101, 112, 201, 205,<br>HIST 105, 106, 107, 150, 151, 210, 247,<br>260, HMS 130, 135B, 265B, MGT 100B,<br>283, PHIL 135, PSC 201, PSY 101, 102,<br>207, 208, 261, SOC | 3   | _____    |
| <b>MATHEMATICS:</b><br>MATH 111B or 127   | 3   | _____    |
| <b>SCIENCE:</b><br>EGG 131 and 132  | 8   | _____    |
| <b>FINE ARTS/HUMANITIES/<br/>SOCIAL SCIENCES:</b><br>AM, ANTH, ART, COM, ECON, ENG 223<br>or above, GEOG 106 or above,, HIST,<br>International Languages, Music,,<br>PHIL, PSC, PSY, SOC, THTR, WMST 113      | 3   | _____    |
| <b>U.S. AND NEVADA CONSTITUTIONS:</b><br>PSC 101 or<br>HIST 101 and HIST 102 or<br>HIST 101 and HIST 217  | 4-6 | _____    |

**SPECIAL PROGRAM REQUIREMENTS (40 Credits):**

|   | CR  | SEMESTER |
|---|-----|----------|
| <b>CSCO 105B</b> Fundamentals of<br>Voice and Data Cabling      | 3   | _____    |
| <b>CSCO 109B</b> PC Troubleshooting and Repair                  | 3   | _____    |
| <b>CSCO 120</b> CCNA<br>Internetworking Fundamentals            | 4   | _____    |
| <b>CSCO 121</b> CCNA<br>Routing Protocols and Concepts          | 4   | _____    |
| <b>CSCO 220</b> CCNA LAN Switching<br>and Wireless Fundamentals | 4   | _____    |
| <b>CSCO 221</b> CCNA WAN Fundamentals                           | 4   | _____    |
| <b>CSCO 281</b> CCNP Implementing<br>Secure Wide Area Networks  | 4   | _____    |
| <b>ET 115B</b> Network Security Management                      | 3   | _____    |
| <b>ET 131B</b> DC for Electronics                               | 4   | _____    |
| <b>ET 212B</b> Digital Logic I                                  | 4   | _____    |
| <b>Plus 3 credits from the following:</b>                       |     |          |
| <b>CIT 171</b> Introduction to<br>Unix Operating Systems        | 3   | _____    |
| <b>CIT 211</b> Microsoft Networking I                           | 3   | _____    |
| <b>CIT 290</b> Internship in CIT                                | 1-6 | _____    |
| <b>ET 117B</b> Computer Forensics                               | 3   | _____    |
| <b>ET 118B</b> Internet Forensics                               | 3   | _____    |

ASSOCIATE OF APPLIED SCIENCE

**67**  
Total Credits

EE A06

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.