

Computer Network and Security Management Associate Degree

Major Code: 0708.10

Total Units: 60 units

AA degree requires 30 units of major courses, 21 units of G.E and 9 units of any GE/CS/CIS courses

AS degree requires 30 units of major 18 units of G.E. and 12 units of any CS/CIS courses

SLO#1-Install, configure and manage industry standard computer operating system with security emphasis

SLO#2-Install, configure, manage and troubleshoot industry leading network systems

SLO#3-Install and configure routers and switches internetwork operating systems

SLO#4-Administer server network operating systems and infrastructure

SLO#5-Understand a full range of security concepts & techniques

SLO#6-Learn cloud technology and manage virtualized environments

A+: CIS 213+ CIS 212
Linux+: CIS 113+ CIS 115
Network+: CIS 212+ CIS 214
Security+: CIS 211+ CIS 215
CISCO CCNA: CIS 229+ CIS 230

Microsoft network: CIS 227+ CIS 217+ CIS 218
VMware: CIS 23+ CIS 232+ CIS 233+CS977
Palo Alto network: CIS 236
Apple admin: CIS 110
AWS: CIS 192+ CIS 193+ CIS 194+ CIS 195

Semester 1:

Course		Units
CIS 213	A+ Software	3
CIS 214	Intro to Computer Network	3
*CIS 212	A+ Hardware (elective)	3

Semester 3:

Course		Units
CIS 230	Intro to Cisco Router	3
CIS 215	Network Security Fundamentals	3
	Major Elective*	6

Semester 2:

Course		Units
CIS 229	Intro to Cisco Network	3
CIS 211	Security+ Preparation	3
CIS 227	Intro to Microsoft Server	3

Total Major Units 30

Semester 4:

GE Elective (see counselors)	21
Additional GE/CS/CIS	9

Total Degree Units 60

*Major Electives:

Choose an additional 9 units from the following courses

- CIS 185 (Direct Study- Computer Science - Information Technology)
- CIS 285 (Direct Study- Computer Science - Information Technology)
- CIS 212 (Intro to Computer Hardware)
- CIS 166 (Computer Forensic)
- CIS 113 (Intermediate Linux +)
- CIS 110 (Apple Administration)
- CIS 115 (Advance Linux Operating System)
- CIS 231 (Virtualization and Cloud Computing)
- CIS 232 (Information Storage and Management for Computer Network)
- CIS 233 (VSpere Install, Configure, and Management)
- CS 977 (Implement a Virtual Desktop Infrastructure)
- CIS 217 (Microsoft Network Infrastructure Administrator)
- CIS 218 (Introduction to Windows Active Directory)
- CIS 236 (Palo Alto Network Cybersecurity Essential)
- CIS 237 (Installing, Configuring and Administrating Microsoft SQL)
- CIS 300 (Computer Laboratory)