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+ CS 977
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 2:
Course                                      Units
CIS 229                                      Intro to Cisco Network 3
CIS 211                                      Security+ Preparation 3
CIS 227                                      Intro to Microsoft Server 3

Semester 3:
Course                                      Units
CIS 230                                      Intro to Cisco Router 3
CIS 215                                      Network Security Fundamentals 3

Major Elective*                               6

Total Major Units                             30

Semester 4:
Course                                      Units
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                                      (VSphere 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)