# Server Administrator A.S. Degree

This degree is designed for networking professionals who want to manage the components of a network system, based on the Microsoft Windows platform and Microsoft server software, on an ongoing basis; monitor and optimize the components of a network system; and diagnose and resolve problems regarding the components of a network system.

**Total Units:** 64-69.5

## First Year

### Semester 1
**14-15 Units**

| COURSE | UNITS | PRE-REQS^ | SEMESTERS OFFERED* | GE AREA |
|---|---|---|---|---|
| **CISC 310** Introduction to Computer Information Science | 3 | Advisory: BUSTEC 302 | F(O,P), S(O), Su(O) | CRC Area II(b) or III(b) |
| **STAT 300**[1] Introduction to Probability and Statistics **or** | 4 | MATH 120 or 125 | F, S, Su(O) | CRC Area II(b) |
| **MATH 341**[1] Calculus for Business and Economics **or** | 4 | MATH 120 | F, S, Su | CRC Area II(b) |
| **MATH 343**[1] Modern Business Mathematics **or** | 4 | MATH 120 | Check Class Schedule for offering | CRC Area II(b) |
| **MATH 400**[1] Calculus I | 5 | MATH 370 | F, S, Su | CRC Area II(b) |
| **CRC Area II(a)-Writing Competency** | 3 | Recommend meeting with a counselor | F, S, Su | CRC Area II(a) |
| **CRC Area I-Humanities** | 3 | | F, S, su | CRC Area I |
| **CRC Area III(a)-Physical Edu Activity** | 1 | | F, S, Su | CRC Area III(a) |

[1] Seek advice from our counselor for the most suitable course to enroll in.

### Semester 2
**18 Units**

| COURSE | UNITS | PRE-REQS^ | SEMESTERS OFFERED* | GE AREA |
|---|---|---|---|---|
| **CISN 300** Network Systems Administration | 3 | Advisory: CISC 310 | S(O), Su(O) | |
| **CISN 304** Networking Technologies | 3 | Advisory: CISC 310 | F(P), S(O) | |

## Career Options/Outlook:

Network & Computer System Administrators install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Monitor network to ensure network availability to all system users and may perform necessary maintenance to support network availability. May supervise computer user support specialists and computer network support specialists. May administer network security measures. **Career opportunities may require more than an associate degree.**

## A sample of reported job titles:

Information Analyst, Information Systems Manager (IS Manager), Information Technology Specialist (IT Specialist), LAN Specialist (Local Area Network Specialist), Local Area Network Administrator (LAN Administrator), Network Administrator, Network Coordinator, Network Manager, Network Specialist, Systems Administrator

## Projected job openings in California (2018-2028):

2,000

## Projected growth in California (2018-2028):

Average (6%)

| COURSE | UNITS | PRE-REQS^ | SEMESTERS OFFERED* | GE AREA |
|---|---|---|---|---|
| **CISS 310**<br>Network Security Fundamentals | 3 | Advisory: CISN 300 & 304 | F(O), S(O), Su(O) | |
| **CRC Area V(a)- American Institutions** | 3 | | F, S, Su | CRC Area V(a) |
| **CRC Area V(b)-Social & Behavioral Sciences** | 3 | | F, S, Su | CRC Area V(b) |
| **CRC Area IV-Natural Sciences** | 3 | | F, S, Su | CRC Area IV |

# Year 2

## Semester 3
**14-17 Units**

| COURSE | UNITS | PRE-REQS^ | SEMESTERS OFFERED* | GE AREA |
|---|---|---|---|---|
| **CISN 302**<br>Intermediate Network Systems Administration | 3 | CISN 300 | F(O) | |
| **CISC 360**<br>Information & Communication Technology Essentials (A+) | 4 | Advisory: CISC 301 & 310 | F(P), S(P) | |
| **CISS 310**<br>Network Security Fundamentals | 3 | Advisory: CISN 300 & 304 | F(O), S(O), Su(O) | |
| **CISC 498**<br>Work Experience in Computer Information Science - Core | 1-4 | | F(O,P), S(O), Su(O) | |
| **3 units from List A** | 3 | See List A | See List A | |

## Semester 4
**18-19.5 Units**

| COURSE | UNITS | PRE-REQS^ | SEMESTERS OFFERED* | GE AREA |
|---|---|---|---|---|
| **CISN 306**<br>Advanced Network Systems Administration | 3 | CISN 302 | F(O) | |
| **CISN 304**<br>Networking Technologies **or** | 3 | Advisory: CISC 310 | F(P), S(O) | |
| **CISN 341**<br>CISCO Networking Academy (CCNA)tm: Networking Theory and Routing Technologies | 3.5 | Co-req: CISN 304 | | |
| **3 units from List A** | 3 | See List A | See List A | |
| **CISN 303**[1]<br>Network Administration - Linux Server | 3 | CISC 360 & CISN 304 | Check Class Schedule for offering | |
| **CISP 370**<br>Beginning Visual Basic **or** | 4 | CISC 310 or CISP 300 | S(P) | CRC Area II(b) |

# Honors option:

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

# Transfer notes:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

# General Education (GE):

Non-specified GE courses identified by CRC Area, CSU Area or IGETC Area without pre- or co-requisite can be taken at any semester.

# About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

# Additional program notes:

Students interested in Windows should take CISN 301, CISN 374, CISN 378, and CISS 341.

| COURSE | UNITS | PRE-REQS^ | SEMESTERS OFFERED* | GE AREA |
|---|---|---|---|---|
| **CISS 321**<br>Scripting for Cyber Security | 3 | CISN 341 & CISS 315 | Check Class Schedule for offering | |
| **CRC Area VI-Ethnic/Multicultural Studies** | 3 | | F, S, Su | CRC Area VI |

^You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

*(O) = Online available, (P) = Partially online

1 or CISN 301, co-req: CISC 323 & 356; Advisory: CISC 302, 308, or 310.

# List A-a minimum of 9 units from the following (see note on right):

| COURSE | UNITS | PRE-REQS^ | SEMESTERS OFFERED* | GE AREA |
|---|---|---|---|---|
| **CISS 315**<br>Ethical Hacking | 3 | CISS 310; Advisory: CISS 300 | Check Class Schedule for offering | |
| **CISS 316**<br>Cisco Networking Academy???????: CCNA Cybersecurity Operations | 3 | Advisory: CISN 304 & CISS 310 | Check Class Schedule for offering | |
| **CISS 327**<br>Cisco Networking Academy???????: CCNA Security: Implementing Network Security | 3.5 | Advisory: CISN 304 & CISS 341 | Check Class Schedule for offering | |
| **CISS 350**<br>Disaster Recovery | 3 | CISS 310 | S(O) | |
| **CISS 353**<br>Management of Information Security | 3 | CISS 310 | Check Class Schedule for offering | |
| **CISS 360**<br>Computer Forensics and Investigation | 3 | CISS 310; Advisory: CISC 308 | F(P) | |

Students interested in Linux should take CISN 303 and CISS 342.

Students interested in security should take CISS 341 or 342, CISS 350, and CISS 360

# Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the Zero Textbook Costs page of the college website.