

## Associate in Applied Science Degree

# NETWORK SYSTEMS MANAGEMENT

### Network Systems Management

With the widespread use of computers around the world, there is an ongoing need for skilled network administrators. The Associate in Applied Science degree in Network Systems Management prepares students for entry-level positions in a vast number of industries. The Network Systems Management degree will provide skills in network architecture, network design, and LAN/WAN services and support among others. These valuable skills enable graduates to work in IT for small businesses, public and private corporations, and in private practice.

#### PROGRAM INFORMATION

##### Course Sequence and Progression Requirements

A minimum grade of "C" or better is required for all CPT and IST prefixed courses for progression and graduation.

#### CURRICULUM SEQUENCE

##### First Semester - Fall

|                          |                                |    |
|--------------------------|--------------------------------|----|
| CPT 168                  | Programming Logic and Design   | 3  |
| CPT 209                  | Computer Systems Management    | 3  |
| CPT 278                  | Computer Software Applications | 3  |
| IST 201                  | Cisco Internetworking Concepts | 3  |
| MAT 101<br>or<br>MAT 110 | Beginning Algebra              | 3  |
|                          | College Algebra                |    |
|                          | TOTAL                          | 15 |

##### Second Semester - Spring

|                          |                            |    |
|--------------------------|----------------------------|----|
| ENG 101<br>or<br>ENG 155 | English Composition I      | 3  |
| IST 190                  | Communications I           |    |
| IST 202                  | LINUX Essentials           | 3  |
| PHI 110                  | Cisco Router Configuration | 3  |
| SPC 205                  | Ethics                     | 3  |
|                          | Public Speaking            | 3  |
|                          | TOTAL                      | 15 |

##### Third Semester - Summer

|                          |   |    |
|--------------------------|---|----|
| IST 162                  | Introduction to Workstation Networking Administration | 3  |
| IST 192                  | LINUX Network Applications                            | 3  |
| IST 203                  | Advanced Cisco Router Configuration                   | 3  |
| PSY 103<br>or<br>PSY 201 | Human Relations                                       | 3  |
|                          | General Psychology                                    |    |
|                          | TOTAL   | 12 |

##### Fourth Semester - Fall

|         |   |   |
|---------|---|---|
| CPT 242 | Database  | 3 |
| IST 165 | Implementing and Administering Windows Directory Services | 3 |
| IST 204 | Cisco Troubleshooting                                     | 3 |
| IST 291 | Fundamentals of Network Security I                        | 3 |

(Continued)

|                                |  |           |
|--------------------------------|--|-----------|
|                                | TOTAL                                  | 12        |
| <b>Fifth Semester - Spring</b> |  |           |
| CPT 264                        | Systems and Procedures                 | 3         |
| IST 261                        | Advanced Network Administration        | 3         |
| IST 290                        | Special Topics in Information Sciences | 3         |
| IST 292                        | Fundamentals of Network Security II    | 3         |
| IST 295                        | Fundamentals of Voice Over IP          | 3         |
|                                | TOTAL                                  | 15        |
|                                | <b>TOTAL CREDIT HOURS</b>              | <b>69</b> |