

Information Technology - Networking, AAS

Information technology connects people, departments and companies for communication purposes. The technology of local area networks gives employees the ability to share and retrieve information at the group level. Combining local area networks with the Internet and telecommunications resources gives employees unlimited intranet access to information throughout the company and beyond. The associate of applied science degree in information technology provides students with a foundation in designing, installing and implementing computer networking resources. Course requirements include network operations and product-specific requirements for Windows, Linux and Cisco.

(Major Code 2330; State CIP Code 11.0901)

Networking & Cybersecurity (<http://www.jccc.edu/academics/credit/networking-cybersecurity/>)

Associate of Applied Science Degree

First Semester

| | | |
|--------------------------------------------|-----------------------------------|----|
| ENGL 121 | Composition I* | 3 |
| IT 140 | Networking Fundamentals | 4 |
| IT 205 | Implementing Windows Client | 3 |
| or IT 120 | CompTIA A+ Practical Applications | |
| IT 230 | Linux Fundamentals | 3 |
| Social Science and/or Economics Elective ^ | | 3 |
| Total Hours | | 16 |

^ See all AAS general education electives (<http://catalog.jccc.edu/degree/requirements/associate-applied-science/>)

Second Semester

| | | |
|-------------|-----------------------------------|----|
| IT 145 | Routing and Switching Essentials* | 3 |
| IT 221 | Windows Server* | 3 |
| IT 231 | Linux Administration* | 3 |
| MATH 171 | College Algebra* (or higher) | 3 |
| ENGL 122 | Composition II* | 3 |
| or ENGL 123 | Technical Writing I* | |
| Total Hours | | 15 |

Third Semester

| | | |
|--------------------------------|------------------------------------|----|
| Technical Elective (see below) | | 2 |
| IT 201 | Network Security Fundamentals* | 4 |
| IT 209 | Scaling Networks* | 4 |
| IT 225 | Windows Active Directory Services* | 3 |
| IT 245 | Network Infrastructure* | 3 |
| Total Hours | | 16 |

Fourth Semester

| | | |
|---------------------------------|-------------------------------|----|
| Technical Electives (see below) | | 7 |
| IT 247 | Accessing Wide Area Networks* | 3 |
| COMS 121 | Public Speaking | 3 |
| or COMS 125 | Personal Communication | |
| Humanities Elective^ | | 3 |
| Total Hours | | 16 |

^ See all AAS general education electives (<http://catalog.jccc.edu/degree/requirements/associate-applied-science/>)

Technical Electives

| | | |
|----------|---------------------------------------|-----|
| CIS 142 | Beginning Programming using Python | 4 |
| CPCA 121 | Introduction to Project Management* | 1 |
| ELEC 185 | LAN Cabling and Installation | 3 |
| ELEC 186 | CompTIA A+ Essentials | 3 |
| IT 175 | Cybersecurity Fundamentals* | 3 |
| IT 228 | Exchange Server* | 3 |
| IT 232 | Linux Networking* | 4 |
| IT 233 | Linux Advanced Administration* | 4 |
| IT 238 | Digital Forensics* | 3 |
| IT 239 | Ethical Hacking* | 3 |
| IT 256 | Windows Security* | 4 |
| IT 271 | Information Technology Internship I* | 3 |
| IT 272 | Information Technology Internship II* | 3 |
| IT 292 | Special Topics:* | 1-3 |

Total Program Hours: 63