

Associate in Applied Science Degree CYBERSECURITY

This degree will provide an introduction to networking and firewall functionality, configuring a firewall and local area networks to include a functional DMZ and incident response, forensics and team training. The courses will use a cyber range/NOC to target hands-on mastery of the complexities of cyber-attacks and develop skills to classify the various types of network attacks among other types of cybersecurity operations, forensics and ethical hacking.

CURRICULUM SEQUENCE

| First Semester - Fall | Course Title | Semester Credit Hours |
|---|---|-----------------------|
| MAT 110 | College Algebra | 3 |
| First Semester - Fall, 1st Half | | |
| CPT 282 | Information Systems Security | 3 |
| IST 201 | CISCO Internetworking Concepts | 3 |
| First Semester - Fall, 2nd Half | | |
| IST 202 | CISCO Router Configuration | 3 |
| IST 266 | Internet and Firewall Security | 3 |
| | TOTAL | 15 |
| Second Semester - Spring | | |
| CPT 168 | Programming Logic & Design | 3 |
| IST 190 | Linux Essentials | 3 |
| IST 215 | Health Information Networking | 3 |
| IST 268 | Computer Forensics | 3 |
| Second Semester - Spring, 1st Half | | |
| IST 293 | IT and Data Assurance I | 3 |
| Second Semester - Spring, 2nd Half | | |
| IST 294 | IT and Data Assurance II | 3 |
| | TOTAL | 18 |
| Third Semester - Summer | | |
| IST 192 | Linux Network Applications | 3 |
| IST 203 | Advanced CISCO Router Config | 3 |
| Third Semester - Summer, 1st Half | | |
| IST 269 | Digital Forensics | 3 |
| Third Semester - Summer, 2nd Half | | |
| CPT 208 | Special Topics in Computer Technology | 3 |
| | TOTAL | 12 |
| Fourth Semester - Fall | | |
| ENG 101 | English Composition I | 3 |
| IST 165 | Implementing & Administering Windows Directory Services | 3 |
| IST 204 | CISCO Troubleshooting | 3 |
| SPC 205 | Public Speaking | 3 |
| | TOTAL | 12 |
| Fifth Semester - Spring | | |
| IST 285 | Cybersecurity Capstone | 3 |
| CPT 280 | SCWE in Computer Technology "Internship" | |

or

(Continued)

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| IST 295 | Fundamentals of Voice Over IP | 3 |
| PHI 110 | Ethics | 3 |
| PSY 201 | General Psychology | 3 |
| or | | |
| PSY 103 | Human Relations | |
| | TOTAL | 12 |
| | TOTAL CREDIT HOURS | 69 |