

# Cybersecurity Certificate in Applied Science

*(Federal financial aid is not yet available for this program. South Carolina residents may receive lottery funds, if eligible.)*

## Mission Statement

The Certificate of Applied Science in Cybersecurity program teaches students how to protect and defend computer systems, networks, programs, and databases against cyber attacks. Emphasis throughout the program is placed on implementing defensive tools to prevent cyber attacks, learning how to simulate attacks in order to defend against them, and in the event of a successful attack, knowing how to recognize the effects and repair the damage as quickly as possible.

## Entrance Requirements:

Acceptable placement test score(s), plus high school diploma or GED

## Type of Program:

Day, evening, or online

- This certificate is designed to provide comprehensive training in computer, network, software, and data cybersecurity. Topics include penetration testing, ethical hacking, and security analysis.
- This program requires a minimum grade of "C" in all courses.
- Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note that many variables can affect this plan and not every course is offered every semester. Please see your advisor to map out your own personalized progression toward graduation.

## Recommended Program Schedule

### First Semester

|     |     |                     |     |
|-----|-----|---------------------|-----|
| CPT | 257 | Operating Systems   | 3.0 |
| IST | 220 | Data Communications | 3.0 |

### Second Semester

|     |     |                                              |     |
|-----|-----|----------------------------------------------|-----|
| IST | 110 | Introduction to Cyberspace and Cybersecurity | 3.0 |
| IST | 190 | Linux Essentials                             | 3.0 |
| IST | 266 | Internet and Firewall Security               | 3.0 |

### Third Semester

|     |     |                                    |     |
|-----|-----|------------------------------------|-----|
| IST | 257 | LAN Network Server Technologies    | 3.0 |
|     |     | or                                 |     |
| IST | 191 | Linux Administration               |     |
| IST | 267 | Network Vulnerability Assessment   | 3.0 |
| IST | 291 | Fundamentals of Network Security I | 3.0 |

### Fourth Semester

|     |     |                                     |     |
|-----|-----|-------------------------------------|-----|
| IST | 292 | Fundamentals of Network Security II | 3.0 |
| IST | 293 | IT and Data Assurance I             | 3.0 |
| IST | 294 | IT and Data Assurance II            | 3.0 |

## Total Required Credit Hours:

**33.0**

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