# 3 Year Plan of Study

**BACHELOR OF SCIENCE**

**CYBER OPERATIONS**

Catalog Year: 2024-2025

**Sample Schedule:** students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor.  This plan is one possible path to completing this degree in *three years.*

## FIRST YEAR

**Fall Semester**

| Course | Prerequisites / Comments | Credits | Semester(s) Offered |
|---|---|---|---|
| CSC 105 Introduction to Computers | | 3 | FA, SP |
| CSC 150 Computer Science I | | 3 | FA, SP |
| ENGL 101 Composition I | | 3 | FA, SP |
| MATH 114 College Algebra | | 3 | FA, SP |
| Natural Science | | 3 | FA, SP |
| | | | |
| | **Total Credit Hours** | **15** | |

**Spring Semester**

| Course | Prerequisites / Comments | Credits | Semester(s) Offered |
|---|---|---|---|
| CSC 134 Introduction to Cyber | | 3 | FA, SP |
| CSC 163 Hardware, Virtual. & Data Comm | | 3 | FA, SP |
| CSC 250 Computer Science II | CSC 150 | 3 | FA, SP |
| CMST 101, 215, or 222 | | 3 | FA, SP |
| MATH 201 Intro to Discrete Math | MATH 114 | 3 | FA, SP |
| Arts and Humanities | | 3 | FA, SP |
| | | | |
| | **Total Credit Hours** | **18** | |

**Summer Term**

| Course | Prerequisites / Comments | Credits | Semester(s) Offered |
|---|---|---|---|
| ENGL 201 Composition II | ENGL 101 | 3 | FA, SP |
| Arts and Humanities | | 3 | FA, SP |
| Social Science | | 3 | FA, SP |
| | | | |
| | **Total Credit Hours** | **9** | |

## SECOND YEAR

**Fall Semester**

| Course | Prerequisites / Comments | Credits | Semester(s) Offered |
|---|---|---|---|
| CSC 234 Software Security | CSC 250 | 3 | FA, SP |
| CSC 285 Networking I | | 3 | FA, SP |
| CSC 300 Data Structures | CSC 250 | 3 | FA, SP |
| CSC 314 Assembly Language | CSC 250 | 3 | FA, SP |
| CSC 334 Web Development | CSC 250 | 3 | FA, SP |
| Elective | | 3 | FA, SP |
| | | | |
| | **Total Credit Hours** | **18** | |

**Spring Semester**

| Course | Prerequisites / Comments | Credits | Semester(s) Offered |
|---|---|---|---|
| CSC 321 Cyber Law and Policy | | 3 | FA, SP |
| CSC 409 Operating Environments | | 3 | FA, SP |
| CSC 385 Networking II | CSC 285 | 3 | SP |
| CSC 428 Reverse Engineering | CSC 314 | 3 | FA, SP |
| CSC 456 Operating Systems | CSC 300 and CSC 314 | 3 | SP |
| CIS/CSC 300-400 Elective (#1) | | 3 | FA, SP |
| | | | |
| | **Total Credit Hours** | **18** | |

**Summer Term**

| Course | Prerequisites / Comments | Credits | Semester(s) Offered |
|---|---|---|---|
| Natural Science | | 3 | FA, SP |
| Social Science | | 3 | FA, SP |
| Elective | | 3 | FA, SP |
| | | | |
| | **Total Credit Hours** | **9** | |

## THIRD YEAR

**Fall Semester**

| Course | Prerequisites / Comments | Credits | Semester(s) Offered |
|---|---|---|---|
| CSC 420 Cellular and Mobile Comm. | CSC 285 and MATH 114 | 3 | FA |
| CSC 436 Offensive Network Security | CSC 409 and CSC 385 | 3 | FA |
| CSC 439 Threat Hunting & Incident Resp. | CSC 409 and CSC 385 | 3 | FA |
| CIS/CSC 300-400 Elective (#2) | | 3 | FA, SP |
| Elective | | 3 | FA, SP |
| | | | |
| | **Total Credit Hours** | **15** | |

**Spring Semester**

| Course | Prerequisites / Comments | Credits | Semester(s) Offered |
|---|---|---|---|
| CSC 404 Foundations of Computation | CSC 300 and MATH 201 | 3 | SP |
| CSC 432 Malware Analysis | CSC 428 | 3 | SP |
| CSC 437 Survey of Enterprise Systems | CSC 163 and CSC 385 | 3 | SP |
| CSC 438 Defensive Network Security | CSC 385 | 3 | SP |
| CIS/CSC 300-400 Elective (#3) | | 3 | FA, SP |
| Elective | | 3 | FA, SP |
| | | | |
| | **Total Credit Hours** | **18** | |

*Information and course schedules may change. This is not a contract.*

*Terms in which courses are offered:*

*FA = Fall Semester*
*SP = Spring Semester*
*SU = Summer Term*

*Revised 2/25*