# CYBERSECURITY (BACHELOR OF SCIENCE, B.S.)

## Overview

The Bachelor of Science program in Cybersecurity is a workforce generator for the growing field of cybersecurity. Students will gain both theoretical and hand-on skills to improve the security posture of a system. Students will also learn cyber laws, security governance and risk management, and incident response processes. The program prepares students for relevant security certification exams.

## Admission

The student must be enrolled in CSC 184 Introduction to Computer Programming or have completed CSC 184 Introduction to Computer Programming with a grade of C or higher, or have an ACT composite score of 25 or higher, or an ACT Science Reasoning score of 28 or higher. In addition, the student must have an overall GPA of at least 2.0.

## Requirements

Students who choose this bachelor degree program will have no more than 6 years from admission or subsequent declaration to meet the requirements listed below. If certification, accreditation or statutory requirements change and additional requirements become effective during this time, the new requirements take precedence.

**Note:** Students pre-admitted into the bachelor degree program (pre-major) have three years to meet admission requirements before moving to the overall 6 year time-frame allowed to complete the program requirements.

| Code | Title | Credit Hours |
| --- | --- | --- |
| **General Studies** | | |
| Students must complete General Studies courses (http://catalog.missouriwestern.edu/undergraduate/university-information/academic-standards-regulations/baccalaureate-degree/#bachelor-general-studies) | | 42 |
| ACT 101 | Introduction to Information Technology | 3 |
| ACT 301 | Applied Database Systems | 3 |
| CSC 184 | Introduction to Computer Programming | 3 |
| CSC 264 | Computer Architecture and Assembly Language Programming | 3 |
| CSC 274 | Introduction to Unix/Linux | 3 |
| CSC 294 | Networking and Telecommunications | 3 |
| CSC 374 | UNIX/Linux System Administration | 3 |
| CSC 386 | Operating Systems Concepts | 3 |
| ETC 200 | Introduction to Technical Communication | 3 |
| MAT 116 | College Algebra | 3 |
| PHL 230 | Ethics | 3 |
| SEC 300 | Introduction to Cybersecurity | 3 |
| SEC 335 | Network and Endpoint Security I | 3 |
| SEC 415 | Data Security and Identity Management [1] | 3 |
| SEC 425 | Ethical Hacking [1] | 3 |
| SEC 435 | Network and Endpoint Security II [1] | 3 |
| SEC 445 | Security Program Governance [1] | 3 |
| SEC 455 | Cyberlaw and Investigations [1] | 3 |
| SEC 490 | Cybersecurity Career Preparation | 1 |
| Select six credit hours of the following: | | 6 |
| CSC 450 | Independent Research/Project | |
| CSC 451 | Internship in Computer Science | |
| CSC 452 | Professional Certification in Computing | |

[1] 500-level versions of these courses are also available to meet these requirements. Students desiring to take 500 level courses must meet the criteria required for undergraduates to enroll in graduate level courses.

1. Earn a grade of C or higher in all major coursework.
2. Earn an overall GPA of at least 2.0 and a major GPA of at least 2.0.

## University Graduation Requirements

1. Earn a minimum of 120 credit hours (100 level and higher, maximum of 6 CED credit hours applicable).
2. Earn a minimum of 30 credit hours in upper-division courses. Lower-division transfer courses accepted as meeting upper-division departmental course requirements cannot be used to fulfill this requirement.
3. Earn 30 of the last 45 credit hours at MWSU in institutional coursework (exclusive of credit by examination).
4. Participate in required departmental and campus wide assessments.
5. Fulfill the Missouri Constitution requirement.
6. Successfully pass the Missouri Higher Education Civics Achievement exam.