

SAMPLE Four-Year Plan
B.S. Cybersecurity - Comprehensive
FALL 2023 Requirements

The curriculum in the Cybersecurity major is somewhat structured but students can move through the coursework in many ways. This four-year plan illustrates one possible path a new freshman could take to complete a degree in four years. This is not an official document and is not the only way that a cybersecurity degree can be completed in four years. Current students should refer to their individual Academic Advising Report for specific graduation requirements. Courses in bold indicate major-based coursework that is completed in the first year.

First Year

| Fall Semester | Units |
|--|-----------|
| English 101 Intro to College Writing and Reading | 3 |
| Math 142 College Algebra | 4 |
| CYBER 101 Introduction to Cybersecurity | 3 |
| Gened CORE 130 Individual and Society | 3 |
| Intrauniversity 104 New Student Seminar | 1 |
| PEGNRL 192 Personal Health and Fitness for Life | 1 |
| Total Credits | 15 |

| Spring Semester | Units |
|---|-----------|
| English 102 Intro to College Writing, Reading, Research | 3 |
| Math 151 Trigonometry | 3 |
| Computer Science 172 Intro to Java or 174 Intro to C++ | 3 |
| Computer Science 215 Discrete Structures | 3 |
| Gened CORE 140 Global or 120 Historical Perspectives | 3 |
| Total Credits | 15 |

Notes: The math and English courses you will take during your first year will depend on UW System placement exam scores. This four-year plan reflects the math and English courses most common for students in this major. All students are encouraged to complete placement testing prior to attending Warhawks SOAR (Student Orientation, Advising, and Registration). Students with credit for calculus have the option of taking Math 280 Discrete Mathematics in place of Computer Science 215 Discrete Structures.

Opportunities: The Thinking In Code learning experience is a great option for first-year students with a major in cybersecurity or considering a major in cybersecurity or computer science. Joining a university-sponsored club and actively participating is strongly encouraged. Involvement in a club or activity will help you develop interpersonal skills, give you the opportunity to learn and practice leadership skills, and adds to your resume.

Second Year

| Fall Semester | Units |
|---|-----------|
| Computer Science 222 Intermediate C++ OR 220 Int Java | 3 |
| Computer Science 271 Computer Org and Assembly Prog | 3 |
| Computer Science 353 Cybersecurity Law and Policy | 3 |
| Math 253 Calculus and Analytic Geometry I | 5 |
| General Education elective | 3 |
| Total Credits | 17 |

| Spring Semester | Units |
|---|-----------|
| Computer Science 223 Data Structures | 3 |
| Computer Science 460 Computer Networking | 3 |
| Computer Science 354 Intrusion Detect/Incident Response | 3 |
| STAT 342 Applied Statistics | 3 |
| Gened CORE 110 World of the Arts | 3 |
| Total Credits | 15 |

Opportunities: Undergraduate research is not required as part of the cybersecurity program but is highly recommended for students who have an interest in attending graduate school in the future. Completing a directed research project with a faculty mentor has many benefits: it develops a student's critical thinking and writing abilities, signals to graduate school programs that a student is prepared for independent research of their own, and it can provide a student with financial support since many undergraduate research opportunities are paid.



University of Wisconsin
Whitewater

College of Letters
 and Sciences

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Third Year

| Fall Semester | Units |
|--|--------------|
| ITSCM 331 System Admin OR COMPSCI 481 Unix Admin | 3 |
| Computer Science 342 Digital Forensics | 3 |
| Computer Science 455 Cryptography and Network Security | 3 |
| University Requirement Lab Science (GL) course | 4-5 |
| Communication 110 Intro to Human Communication | 3 |
| Total Credits | 16-17 |

| Spring Semester | Units |
|--|--------------|
| ITSCM 332 Network Administration | 3 |
| ITSCM 452 Information Security Assurance | 3 |
| Computer Science 424 Operating Systems | 3 |
| University Requirement Lab Science (GL) course | 4-5 |
| U.S. Racial/Ethnic Diversity course | 3 |
| Total Credits | 16-17 |

Opportunities: An internship is not required for the cybersecurity major but can be a great opportunity for practical experience. An internship is an experiential learning opportunity that provides students with hands-on experience in a potential career field, supervision and coaching from prospective employers, and the ability to learn professional norms and behaviors. In addition, completing an internship allows students to differentiate themselves in a competitive job market. Students should begin planning for an internship by the beginning of the junior year and can complete the internship in the junior or senior year.

Fourth Year

| Fall Semester | Units |
|---------------------------------------|-----------|
| CYBER 459 Security System Engineering | 3 |
| Cybersecurity Elective | 3 |
| Cybersecurity Elective | 3 |
| Gened 390 CORE World of Ideas | 3 |
| General Education elective | 3 |
| Total Credits | 15 |

| Spring Semester | Units |
|---|-----------|
| Computer Science 456 Computer System Security | 3 |
| Cybersecurity Elective | 3 |
| Cybersecurity Elective | 3 |
| English 370 OR PWP 371 OR 372 Writing Requirement | 3 |
| Electives to reach 120 (if needed) | 3 |
| Total Credits | 15 |

Notes: All students must earn 120 credits to earn a bachelor's degree and many students have the opportunity to choose additional courses in the fourth year to expand skills, explore interests, or try something new.

Opportunities: LSINDP 399: Career Information in Letters and Sciences is a 1-credit course that focuses on career and graduate school opportunities; identifying skills, strengths, and work values; creating effective job search materials; developing a networking strategy; and planning to a successful post-graduation transition.

Planning for Graduation: Students are encouraged to apply for graduation one full semester prior to their intended graduation date. Information about commencement and the application for graduation are on the Registrar's Office website (<http://www.uww.edu/registrar/graduation>).



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