

CYBERSECURITY - ASSOCIATE IN SCIENCE



CYBR

Available on all four campuses; daytime, evening, or online.

The Cybersecurity program is designed to provide students with a strong foundation in the principles and methods of cybersecurity, as well as the fundamental knowledge and tools for applying security measures across a variety of network architectures and settings. In addition to serving as a strong foundation for pursuing a bachelor's degree in cybersecurity, this associate degree program will provide the educational background and hands-on training necessary to prepare students for entry into the cybersecurity sector. The curriculum includes a combination of general education, computer science, and network technology courses to provide students with the knowledge, skills, and training necessary for a successful transition into a career in security, and to meet National Security Agency (NSA) and Centers of Academic Excellence (CAE) core foundational content and standards.

Note: Students must earn a grade of at least C in all computer course requirements and must maintain a 2.0 GPA. Many courses require prerequisites, corequisites and/or testing. See course descriptions for details (<https://catalog.ccri.edu/course-descriptions/>).

Requirements

| Code | Title | Hours |
|--|--|-------|
| General Education Requirements | | |
| ENGL 1010 | Composition I (ENGL 1010A) | 3 |
| MATH 1139 | Mathematics for Liberal Arts Students (MATH 1139C) | 3 |
| MATH 1240 | Statistical Analysis I | 4 |
| Social Science Electives (https://catalog.ccri.edu/academic-information/general-education/course-attributes/#sscigened/) | | 6 |
| Humanities Elective (https://catalog.ccri.edu/academic-information/general-education/course-attributes/#humngened/) ¹ | | 6 |
| Subtotal | | 22 |
| Major Requirements | | |
| CNVT 1810 | Networking 1 | 3 |
| CNVT 1820 | Networking 2 | 3 |
| CNVT 1830 | Networking 3 | 3 |
| CNVT 2200 | Network Security Hardware | 4 |
| COMI 1170 | Scripting for System Administration | 3 |
| COMI 1800 | Computer Networking Software Linux | 3 |
| COMI 2035 | Introduction to Computer Forensics | 3 |
| COMI 2036 | Introduction to Computer Ethics | 3 |
| COMI 2037 | Introduction to Cybersecurity | 3 |
| COMI 2038 | Ethical Hacking | 3 |
| COMP 1200 | Database Design & Management | 3 |
| COMP 2500 | Cybersecurity Practicum/Capstone Course ² | 3 |
| CYBR 1100 | Defending External Threats | 3 |

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|--------------------|-----------|
| Subtotal | 40 |
| Total Hours | 62 |

¹ Take Ethics (PHIL 2030) if transferring to Johnson & Wales University Cyber Threat, Intelligence & Defense B.S. Degree.

² Cybersecurity Practicum/Capstone Course² (COMP 2500) requires instructor permission and is recommended in your final semester.

Recommended Course Sequence

| Course | Title | Hours |
|--|--|-----------|
| Year 1 | | |
| Semester 1 | | |
| CNVT 1810 | Networking 1 | 3 |
| COMI 1170 | Scripting for System Administration | 3 |
| ENGL 1010 | Composition I (ENGL 1010A) | 3 |
| MATH 1139 | Mathematics for Liberal Arts Students (MATH 1139C) | 3 |
| Humanities OR Social Science Elective (https://catalog.ccri.edu/academic-information/general-education/course-attributes/) ¹ | | 3 |
| Hours | | 15 |
| Semester 2 | | |
| CNVT 1820 | Networking 2 | 3 |
| COMI 1800 | Computer Networking Software Linux | 3 |
| COMI 2035 | Introduction to Computer Forensics | 3 |
| COMP 1200 | Database Design & Management | 3 |
| Humanities OR Social Science Elective (https://catalog.ccri.edu/academic-information/general-education/course-attributes/) ¹ | | 3 |
| Hours | | 15 |
| Year 2 | | |
| Semester 1 | | |
| CNVT 1830 | Networking 3 | 3 |
| COMI 2036 | Introduction to Computer Ethics | 3 |
| COMI 2037 | Introduction to Cybersecurity | 3 |
| MATH 1240 | Statistical Analysis I | 4 |
| Humanities OR Social Science Elective (https://catalog.ccri.edu/academic-information/general-education/course-attributes/) ¹ | | 3 |
| Hours | | 16 |
| Semester 2 | | |
| CNVT 2200 | Network Security Hardware | 4 |
| COMI 2038 | Ethical Hacking | 3 |
| COMP 2500 | Cybersecurity Practicum/Capstone Course ² | 3 |
| CYBR 1100 | Defending External Threats Using the Cyber Range | 3 |
| Humanities OR Social Science Elective (https://catalog.ccri.edu/academic-information/general-education/course-attributes/) ¹ | | 3 |
| Hours | | 16 |
| Total Hours | | 62 |

¹ Only 6-credits in Humanities Elective are required and 6-credits in Social Science Electives are required. If transferring to Johnson & Wales University, one of your Humanities Electives must be Ethics (PHIL 2030).

Transfer

If you are interested in earning a bachelor's degree, please meet with an Academic Advisor (<https://ccri.edu/advising/>) who can help you select the courses that best prepare you for transfer to a four-year college or university.

If you are interested in transferring to Rhode Island College or the University of Rhode Island, check out the Joint Admissions Agreement (<https://ccri.edu/jaa/>). Transfer information, events and articulations can be found on the Transfer Center website (https://ccri.edu/oes/transfer_center/).