

Academic Rhode Map for BS Cybersecurity Major at Rhode Island College

GENERAL EDUCATION: A complete listing of General Education courses can be found in the online catalog; look at catalog for year you enrolled. For Gen Ed courses, aside from Second Language requirement, which varies depending on where you are placed, you need ONE course from each category. Second Language 101/102 options are: American Sign, Arabic, French, German, Italian, Japanese, Portuguese, or Spanish. For other ways to satisfy the second language requirement look under the Gen Ed. section of the catalog. For information about Math Placement exam visit the orientation webpage. Any courses marked (F) offered Fall only; (Sp) Spring only. **Courses with an asterisk * have prerequisites. Courses with a “W” in the prefix are Writing in the Discipline (WID) courses and will be writing intensive.**

Cognates	Course	Academic Major Checklist	Course
MGT 201W Foundations of Management* (WID)		CIS 440 Issues in Computer Security*	
MATH 177 Quantitative Business Analysis I*		CIS 462W Applied Software Development* (WID)	
MATH 248 Business Statistics I*		CSCI 102 Computer Fundamentals for Cybersecurity	
PHIL 206 Ethics or PHIL 207 Technology and the Future of Humanity		CSCI 157 Introduction to Algorithmic Thinking in Python or CIS 301 Introduction to Computer Programming in Business*	
Academic Major Checklist		CSCI 402 Cyber Security Principles*	
CIS 252 Introduction to Information Systems*		CSCI 410 Digital Forensics*	
CIS 320 Information Technology: Hardware and Software Systems (Sp)*		CSCI 432 Network and Systems Security*	
CIS 347 Basic Cryptography Techniques*		Choose TWO additional course electives in CIS or CSCI at the 300 level or above (for a total of 8-credits)*	
CIS 421 Networks and Infrastructure*			

This map is a semester-by-semester plan to help you toward graduation in four years. Not everyone graduates in four years as it depends on how many courses you can take, and how you do in those courses. This map is not your only route; it is a suggestion. You might take additional courses over the summer (or early spring/winter) to catch up or get ahead if the courses you need are offered at these times. While many courses in your major will have prerequisites that will need you to take them in a special order, there is some flexibility in this map, but always double check you have the correct prerequisites for a course you plan to take. Maps assume a Fall start.

The column to the left on the other side of this page suggests the ideal courses for you to take each semester. There are times when those courses may be full or unavailable the semester you plan to take them, in which case consider another course from a different semester with which you can switch. The column on the right has "Checkpoints" for each semester that show where you should be by the end of that semester. You should work from this map as you plan each semester's schedule, before checking in with your advisor. The Map is designed primarily for freshmen coming to college for the first time, but transfer students may also use the Rhode Map with the understanding that they have most likely completed several requirements through transfer of credit, and will be starting further into the program.

GRADUATION REQUIREMENTS: The following requirements must be completed by undergraduate degree candidates at Rhode Island College in order to graduate:

- General Education program, including a second language requirement and RIC 100 or equivalent
- College Math Milestone (which is separate from the Gen Ed math requirement)
- College Writing Competency (satisfied by FYW with a minimum grade of C)
- Academic Major—see check chart.
- A minimum of 120 credit hours, with a minimum of 45 credit hours taken at RIC. Of the 45 credit hours, a minimum of 15 credit hours must be in the major (12 of which must be at the 300- or 400-level).
- A minimum overall grade point average of 2.0
- A minimum grade point average of 2.0 in your major

Academic Rhode Map for BS Cybersecurity Major at Rhode Island College

SEMESTER 1	CR	SEMESTER 1 CHECKPOINTS
First Year Writing (FYW 100) or First Year Seminar (FYS 100)	4	FYW 100P is a 6-credit option. There is a Directed Self-Placement questionnaire you can take to aid in this decision; check the RIC First Year Writing website.
RIC 100 Introduction to Rhode Island College	1	Exempt if taking COLL 101, COLL 150, or HONR 150
Gen Ed Distribution course from one of these GE categories: Arts (A); Social and Behavioral Sciences (SB); History (H); Literature (L), or Natural Sciences (NS).	4	
Gen Ed--Second Lang 101 (based on placement, a course higher than 101/102 may be taken). If language requirement satisfied: another Gen Ed Distribution course.	4	Language placement test with Dept. of Modern Languages (optional). Complete Second Lang 101 (if needed)
Gen Ed—MATH 177	4	Prerequisite is Math Milestone/ Math Placement Exam, or MATH 120
Requirements and GPA		Aim for 16 earned credits (While 12 is fulltime, 16 credits are preferred to stay on track to graduate in 4 years). Math Milestone completed. Minimum 2.0 GPA
# CREDITS EARNED	17	Make appointment with advisor to discuss your schedule for next semester in Sept.

SEMESTER 2	CR	SEMESTER 2 CHECKPOINTS
FYW 100 or FYS 100	4	Complete FYS and FYW, for FYW, grade C or better
Gen Ed--Second Lang 102* (if needed), or another Gen Ed Distribution course in a needed category.	4	Complete Second Lang 102* (if needed)
CIS 252 Introduction to Information Systems	4	Completion of 15 college credits.
CSCI 102 Computer Fundamentals for Cybersecurity	4	Prerequisite is Math Milestone completed
Requirements and GPA		Need a minimum of 30 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule for next semester in Feb.

SEMESTER 3	CR	SEMESTER 3 CHECKPOINTS
CSCI 157 Introduction to Algorithmic Thinking in Python or CIS 301 Introduction to Computer Programming in Business*	4	Prereq. for CSCI 157 is Completed college Mathematics Milestone. Prereq. for CIS 301 is CIS 251 or CIS 252
PHIL 206 Ethics or PHIL 207 Technology and the Future of Humanity	3	
Gen Ed Distribution course from one of these GE categories: Arts (A); Social and Behavioral Sciences (SB); History (H); Literature (L), or Natural Sciences (NS).	4	Complete Natural Sciences Gen Ed
Gen Ed Distribution course from one of these GE categories: Arts (A); Social and Behavioral Sciences (SB); History (H); Literature (L), or Natural Sciences (NS).	4	
Requirements and GPA		Need minimum of 45 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	15	Make appointment with advisor to discuss your schedule for next semester in Sept.

Academic Rhode Map for BS Cybersecurity Major at Rhode Island College

SEMESTER 4	CR	SEMESTER 4 CHECKPOINTS
MATH 248 Business Statistics I*	4	Prerequisite is MATH 177. Satisfies Advanced Quantitative/Scientific Reasoning (GE-AQSR)*
Gen Ed Distribution course from one of these GE categories: Arts (A); Social and Behavioral Sciences (SB); History (H); Literature (L), or Natural Sciences (NS).	4	
CIS 320 IT: Hardware and Software Systems*	4	Prerequisite is CIS 252 or CSCI 102 or consent of department chair
CIS 347 Basic Cryptography Techniques*	4	Prerequisite Math 177, and CIS 301 or CSCI 157
Requirements and GPA		Need minimum of 60 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule for next semester in Feb.

SEMESTER 5	CR	SEMESTER 5 CHECKPOINTS
Choose Connections course (GE-C)*	4	Prereqs are 45 completed credits and FYW and FYS.
CIS 421 Networks and Infrastructure*	4	Prereqs are CIS 252 or CSCI 102 and completion of 45 credits, or consent of department chair
CSCI 402 Cyber Security Principles	4	Prereqs are CSCI 102 and CSCI 157 or CIS 301; or CSCI 211; and 45 credits
MGT 201W Foundations of Management	4	Completion of at least 30 college credits.
Requirements and GPA		Aim for minimum of 75 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule for next semester in Sept.

SEMESTER 6	CR	SEMESTER 6 CHECKPOINTS
CSCI 432 Network and Systems Security*	4	Prereqs is CSCI 402
CIS 440 Issues in Computer Security*	4	Prereqs are CIS 252 or CSCI 102 and 45 credits
Any other 300 level or above CIS* or CSCI* Course	4	Need TWO of these. Varied prereqs—check catalog
Gen Ed Distribution course from one of these GE categories: Arts (A); Social and Behavioral Sciences (SB); History (H); Literature (L), or Natural Sciences (NS), or elective, course for Minor or additional MATH or DATA Course	3-4	
Requirements and GPA		Aim for minimum of 90 earned credits, with minimum of 2.0 GPA overall and in the major. Apply for degree audit online through MyRIC
# CREDITS EARNED	15-16	Make appointment with advisor to discuss your schedule for next semester in Feb.

Academic Rhode Map for BS Cybersecurity Major at Rhode Island College

SEMESTER 7	CR	SEMESTER 7 CHECKPOINTS
CSCI 410 Digital Forensics*	4	Prerequisite is CSCI 402
Any other 300 level or above CIS* or CSCI* Course	4	Need TWO of these. Varied prereqs—check catalog
Any remaining Gen. Ed. if needed, or elective, course for Minor or additional MATH or DATA Course	3-4	
Elective, course for Minor or additional MATH or DATA Course	3-4	Need at least 12 credits to be full-time
Requirements and GPA		Aim for minimum of 105 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	14-16	Make appointment with advisor to discuss your schedule for next semester in Sept.

SEMESTER 8	CR	SEMESTER 8 CHECKPOINTS
CIS 462W Applied Software* (WID)	4	Prerequisites are CIS 301 or CSCI 157 AND CIS 455 or or CIS 455W or CSCI 432
Any remaining Gen. Ed. if needed, or elective, course for Minor or additional MATH or DATA Course	3-4	All TEN Gen Ed. courses completed.
Elective, course for Minor or additional MATH or DATA Course	3-4	Need at least 12 credits to be full-time
Requirements and GPA		Need minimum of 120 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	12	Attend Gradfest and Commencement

For more information, check the COMPUTER SCIENCE AND INFORMATION SYSTEMS Department website:
<https://www.ric.edu/departments-directory/departments-computer-science-and-information-systems/computer-information-systems-bs>

The total minimum credit count for the major is 67 credits and 40 credits for General Education. However, 8 Gen Ed. credits for M and AQSR will double-count, so the minimum total is 99, leaving room for 21 credits that may need to include two secondary language courses and RIC 100, or can be used toward a minor or electives.