Academic Rhode Map for BS Cybersecurity Major
at Rhode Island College

- This Rhode Map is a suggested pathway to graduation in 8 semesters
  - There are other valid pathways available to graduation - part time, summer/early spring classes, etc.
- The left column contains the suggested courses for each semester, the right column contains notes for the course and about progress towards graduation
- Some courses might not be offered during the semester shown on the map
  - In these cases, courses listed in future semesters can be substituted if their prerequisites have been satisfied
  - Your advisor can help you determine which courses can be used during your appointment each semester
- This Rhode Map is designed primarily with incoming freshmen in mind and assumes a Fall start
  - Transfer students can also use it as a guide, knowing that their transfer credits may have satisfied some requirements. Academic advisors are available to answer questions about how these will affect the program
  - Students starting in the spring may need to adjust based on class offerings and availability

GENERAL EDUCATION REQUIREMENTS CHECKLIST

	FYW 100 – Taken in first year (Cannot be used as elective)	**Distribution Courses -** One from each category	**Math (M)** - Suggested in first year Satisfied by MATH 177
			Arts (A)
	FYS 100 – Taken in first year (Cannot be used as elective)		**History/Philosophy (HP)**
			Literature/Language (LL)
			Natural Science (NS)
	Connections – Taken after FYW & FYS		**Social & Behavioral Sciences (SB)**
			Elective(s) for 40 total Gen Ed credits (E)

MAJOR REQUIREMENTS CHECKLIST

Cognates	Requirements from Major
MGT 201W Foundations of Management	CIS 440 Issues in Computer Security
MATH 177 Quantitative Business Analysis I	CIS 462W Applied Software Development
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
Requirements from Major	CSCI 402 Cyber Security Principles
BUSI 100 Introduction to Business at RIC	CSCI 410 Digital Forensics
CIS 252 Introduction to Information Systems	
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	

Graduation Requirements:

- **Completion of General Education Requirements –** See table above
- **Completion of Major Requirements —** See table above
- **BUSI 100 or Equivalent (eg RIC 100) —** Taken in first year
- **College Math Milestone —** Satisfied by placement exam or completion of MATH 010
- **College Writing Competency —** Satisfied by FYW 100 with a minimum grade of C
- **Minimum 120 Credit Hours —** At least 30 credits at RIC (of which 15 from major, including 12 at 300 or 400 level)
- **Minimum GPA -** 2.0 overall

The total credit count for the major is 69 credits, and 40 credits for General Education. However, 12 Gen. Ed. credits for HP, M, and NS can double count, so the program can be completed in 97 credits.

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SEMESTER 1	CR		SEMESTER 1 NOTES
FYW 100 First Year Writing **OR** FYS 100 First Year Seminar	4		FYW Directed Self Placement exam
BUSI 100 Introduction to Business at RIC	2		Exempt if taking/taken COLL 101, COLL 150, HONR 150, or RIC 100
MATH 177 Quantitative Business Analysis I	4		Prerequisite is Math Milestone/Math Placement Exam or MATH 120 Satisfies Gen Ed Math (M)
General Education Course (Any still needed)	3-4		
General Education Course (Any still needed)	3-4		
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	16 -18		*By October, make appointment with advisor to discuss your schedule for next semester*

SEMESTER 2	CR		SEMESTER 2 NOTES
FYW 100 First Year Writing **OR** FYS 100 First Year Seminar	4		
General Education Course (Any still needed)	3-4		
CIS 252 Introduction to Information Systems	4		
CSCI 102 Computer Fundamentals for Cybersecurity	4		Prerequisite = 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	15 -16		*By March, make appointment with advisor to discuss your schedule for next semester*

SEMESTER 3	CR		SEMESTER 3 NOTES
CSCI 157 Introduction to Algorithmic Thinking in Python **OR** CIS 301 Introduction to Computer Programming in Business	4		CSCI 157 prereq = Completed college Mathematics Milestone CIS 301 prereq = CIS 251 or CIS 252
PHIL 206 Ethics **OR** PHIL 207 Technology and the Future of Humanity	3		PHIL 206 satisfies the Gen Ed. HP
General Education Course (Any still needed)	3-4		
General Education Course (Any still needed)	3-4		
Requirements and GPA			*Need minimum of 45 earned credits, with minimum of 2.0 GPA overall and in the major*
# CREDITS EARNED	13 -15		*By October, make appointment with advisor to discuss your schedule for next semester*

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SEMESTER 4	CR		SEMESTER 4 NOTES
MATH 248 Business Statistics I	4		Prerequisite = MATH 177
General Education Course (Any still needed)	3-4		
CIS 320 IT: Hardware and Software Systems	4		Prerequisite = 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	15 -16		*By March, make appointment with advisor to discuss your schedule for next semester*

SEMESTER 5	CR		SEMESTER 5 NOTES
Gen Ed - Connections	4		Prereqs = FYW and FYS
CIS 421 Networks and Infrastructure	4		Prereqs = CIS 252 or CSCI 102 and completion of 45 credits, or consent of department chair
CSCI 402 Cyber Security Principles	4		Prereqs = CSCI 102 and CSCI 157 or CIS 301; or CSCI 211; and 45 credits
MGT 201W Foundations of Management	4		
Requirements and GPA			*Aim for minimum of 75 earned credits, with minimum of 2.0 GPA overall and in the major*
# CREDITS EARNED	16		*By October, make appointment with advisor to discuss your schedule for next semester*

SEMESTER 6	CR		SEMESTER 6 NOTES
CSCI 432 Network and Systems Security	4		Prereq = CSCI 402
CIS 440 Issues in Computer Security	4		Prereqs = CIS 252 or CSCI 102 and 45 credits
Any other 300 level or above CIS or CSCICourse	4		Need TWO of these Varied prereqs—check catalog
General Education Course (Any still needed)	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		*By March, make appointment with advisor to discuss your schedule for next semester*

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SEMESTER 7	CR		SEMESTER 7 NOTES
CSCI 410 Digital Forensics	4		Prerequisite = 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		*By October, make appointment with advisor to discuss your schedule for next semester*

SEMESTER 8	CR		SEMESTER 8 NOTES
CIS 462W Applied Software	4		Prerequisites = 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		
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*

NOTE:

- **The total number of credits needed for the major, general education, and other requirements may be less than the 120 required for graduation. Those remaining credits can be satisfied with electives, or they can be used toward a second major or minor which could be very useful.**
    - **Along with your advisor, this Rhode Map can help you determine if a second major or minor could fit into your plan**