- This Rhode Map is a suggested pathway to graduation in 8 semesters
 - o 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
 - o In these cases, courses listed in future semesters can be substituted if their prerequisites have been satisfied
 - o 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
 - o 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	Distribution	Math (M) - Suggested in first year - Satisfied by MATH 212			
(Cannot be used as elective)	Courses -	Arts (A)			
5V0 400 T	One from	History/Philosophy (HP)			
FYS 100 – Taken in first year (Cannot be used as elective)	each			Literature/Language (LL)	
(Garmer 20 deca de cicolivo)	category	Natural Science (NS)			
Connections – Taken after FYW & FYS		Social & Behavioral Sciences (SB)			
Connections - Taken after FTVV & FTS		Elective(s) for 40 total Gen Ed credits (E)			

MAJOR REQUIREMENTS CHECKLIST	
BUSI 100 Introduction to Business at RIC	Elective - THREE courses from: CIS 416 Web Design
CSCI 209 Programming Implementations Using Discrete Structures	CIS 421 Networks and Infrastructure
CSCI 211 Computer Programming and Design	CIS 455W Database Programming CSCI 309 Object-Oriented Design
CSCI 212W Data Structures	CSCI 415 Software Testing
CSCI 313 Computer Organization and Architecture	CSCI 427 Introduction to Artificial Intelligence
CSCI 325 Organization of Programming Language	CSCI 428 Machine Learning
CSCI 401W Software Engineering	CSCI 432 Network and Systems Security
CSCI 402 Cyber Security Principle	CSCI 467 Computer Science Internship
CSCI 423 Analysis of Algorithms	CSCI 476 Advanced Topics in Computer Science
CSCI 435 Operating Systems	
Recommended that students take the following:	Cognates:
COMM 208 Public Presentations	MATH 212 Calculus I
ENGL 230W Workplace Writing	
MATH 209 Precalculus Math	

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 52 credits, and 40 credits for General Education. 4 Gen. Ed. credits for M can double count, so the program could be completed in 88 credits.

SEMESTER 1	CR	SEMESTER 1 NOTES
FYW 100 First Year Writing OR	4	FYW Directed Self Placement exam
FYS 100 First Year Seminar		
BUSI 100 Introduction to Business at RIC	2	Exempt if taking/taken COLL 101, COLL 150, HONR 150, or RIC 100
CSCI 211 Computer Programming and Design	4	Prereq = Completed Math Milestone
MATH 209 Precalculus Math (if needed) OR	4	MATH 209 prereq = MATH 120 or appropriate score on
MATH 212 Calculus I		Mathematics Placement Exam
		MATH 212 prereq = is MATH 209 or appropriate score on
		Mathematics Placement Exam
		Both satisfy Gen Ed Mathematics (M)
General Education Course (Any still needed)	3-4	
		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.
Requirements and GPA		Minimum 2.0 GPA
		By October, make appointment with advisor to discuss your
# CREDITS EARNED	17-18	schedule for next semester

SEMESTER 2	CR	SEMESTER 2 NOTES
FYW 100 First Year Writing OR	4	
FYS 100 First Year Seminar		
MATH 212 Calculus I (if not yet taken)	4	MATH 212 Prereq =s MATH 209 or appropriate score on
		Mathematics Placement Exam
		Satisfies Gen Ed. Math (M)
CSCI 211 Computer Programming and Design OR	3-4	
General Education Course (Any still needed)		
General Education Course (Any still needed)	3-4	
		Aim for minimum of 32 earned credits; minimum of 2.0 GPA
Requirements and GPA		overall and in the major
	14	By March, make appointment with advisor to discuss your
# CREDITS EARNED	-16	schedule for next semester

SEMESTER 3	CR	SEMESTER 3 NOTES
CSCI 212W Data Structures	4	Prereq = CSCI 211
CSCI 209 Programming Implementations using	4	Prereq = CSCI 211
Discrete Structure		
ENGL 230W Workplace Writing OR	4	Recommended not required
COMM 208 Public Presentations, or elective		ENGL 230W prereq = FYW 100 or completion of College Writing
		Requirement
General Education Course (Any still needed)	3-4	
		Aim for minimum of 48 earned credits; minimum of 2.0 GPA
Requirements and GPA		overall and in the major
		By October, make appointment with advisor to discuss your
# CREDITS EARNED	15-16	schedule for next semester

SEMESTER 4	CR	SEMESTER 4 NOTES
CSCI 402 Cyber Security Principles	4	Prereq = CSCI 102 and CSCI 157 or CIS 301; or CSCI 211; and 45 credits
CSCI 325 Organization of Programming Language	3	Prereq = CSCI 212 or CSCI 212W or CSCI 315
ONE course from: CIS 416 Web Design; CIS 421 Networks and Infrastructure; CIS 455W Database Programming; CSCI 309 Object-Oriented Design; CSCI 415 Software Testing; CSCI 427 Introduction to Artificial Intelligence; CSCI 428 Machine Learning; CSCI 432 Network and Systems Security; CSCI 467 Computer Science Internship; CSCI 476 Advanced Topics in Computer Science	3-4	Prereqs vary—see catalog. Need a minimum of THREE CIS/CSCI electives (not all are offered every semester, see catalog for which semester is likely).
General Education Course (Any still needed)	3-4	
Requirements and GPA		Aim for minimum of 64 earned credits; minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	13 -15	By March, make appointment with advisor to discuss your schedule for next semester

SEMESTER 5	CR	SEMESTER 5 NOTES
CSCI 313 Computer Organization and Architecture	4	Prereqs = CSCI 211 and prior or concurrent enrollment in
		CSCI 209 or CSCI 312
ONE course from: CIS 416 Web Design; CIS 421 Networks	3-4	Prereqs vary—see catalog.
and Infrastructure; CIS 455W Database Programming;		Need a minimum of THREE CSCI electives (not all are offered
CSCI 309 Object-Oriented Design; CSCI 415 Software		every semester, see catalog for which semester is likely).
Testing; CSCI 427 Introduction to Artificial Intelligence;		
CSCI 428 Machine Learning; CSCI 432 Network and Systems Security; CSCI 467 Computer Science Internship;		
CSCI 476 Advanced Topics in Computer Science		
General Education Course (Any still needed)	3-4	
Elective, or course toward minor	3-4	
		Aim for minimum of 80 earned credits; Minimum of 2.0 GPA
Requirements and GPA		overall and in major
# CREDITS EARNED	13	By October, make appointment with advisor to discuss your
	-16	schedule for next semester

SEMESTER 6	CR	SEMESTER 6 NOTES
Gen Ed - Connections	4	Prereqs = FYW and FYS
CSCI 401W Software Engineering	3	Preregs = CSCI 212 or CSCI 212W or CSCI 315, and at least
		three additional CSCI or CIS courses at the 300-level or above,
		or consent of department chair.
CSCI 423 Analysis of Algorithms	4	Preregs = MATH 212, MATH 436 and either CSCI 212 or CSCI
		315
		Could be taken in Semester 8, and elective or Gen Ed course
		taken here
Elective, or course toward minor	3-4	
		Aim for minimum of 96 earned credits. If pursuing minor or
		second major make sure you have registered for this with the
Requirements and GPA		relevant department prior to audit. Minimum of 2.0 GPA overall
<u>'</u>		and in major. Apply for degree audit online through MyRIC
# CREDITS EARNED	14	By March, make appointment with advisor to discuss your
	-15	schedule for next semester

SEMESTER 7	CR	SEMESTER 7 NOTES
CSCI 435 Operating Systems	4	Prereqs are CSCI 313 and either CSCI 212, 212W or 315
ONE course from: CIS 416 Web Design; CIS 421 Networks and Infrastructure; CIS 455W Database Programming; CSCI 309 Object-Oriented Design; CSCI 415 Software Testing; CSCI 427 Introduction to Artificial Intelligence; CSCI 428 Machine Learning; CSCI 432 Network and Systems Security; CSCI 467 Computer Science Internship; CSCI 476 Advanced Topics in Computer Science	3-4	Prereqs vary—see catalog. Need a minimum of THREE CSCI electives (not all are offered every semester, see catalog for which semester is likely).
Gen Ed course if needed, or CSCI elective	3-4	
Elective, or course toward minor	3-4	
Requirements and GPA		Aim for minimum of 108 earned credits. Minimum of 2.0 GPA overall and in the major. All ten GE courses and second lang. req. completed
# CREDITS EARNED	13 -16	By October, make appointment with advisor to discuss your schedule for next semester

SEMESTER 8	CR	SEMESTER 8 NOTES
ONE course from: CIS 416 Web Design; CIS 421 Networks and Infrastructure; CIS 455W Database Programming; CSCI 309 Object-Oriented Design; CSCI 415 Software Testing; CSCI 427 Introduction to Artificial Intelligence; CSCI 428 Machine Learning; CSCI 432 Network and Systems Security; CSCI 467 Computer Science Internship; CSCI 476 Advanced Topics in Computer Science	3-4	Prereqs vary—see catalog. Need a minimum of THREE CSCI electives (not all are offered every semester, see catalog for which semester is likely).
Choose another course from the above list, or elective	3-4	Completed CSCI 401W and CSCI 423
Gen Ed Distribution course if needed, or elective	3-4	
Elective, or course toward minor	3-4	
Requirements and GPA		Need minimum of 120 earned credits. Minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	12 -16	Attend Gradfest and Commencement

NOTES:

- Students cannot count toward the major more than TWO courses with grades below C-
- 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

Approved by Department Chair: Suzanne Mello-Stark	Date: 12/2/2024
Approved by Undergraduate Curriculum Committee	Date: 11/8/2024
Revised:	