- 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
 - 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)				
FYS 100 – Taken in first year	One from	History/Philosophy (HP)				
	each	Literature/Language (LL)				
(Cannot be used as elective)	category	Natural Science (NS) -Satisfied by cognate science requirement				
Connections – Taken after FYW & FYS		Social & Behavioral Sciences (SB)				
Connections – Taken after FYVV & FYS		Elective(s) for 40 total Gen Ed credits (E)				

MA.	IOR REQUIREMENTS CHEC	KLIST				
	BUSI 100 Introduction to Business at	RIC			THR	EE courses from Machine Learning Focus areas:
	CSCI 141 Application and Impact of A	Artificial Intelligence			CSCI	348 Artificial Intelligence in Gaming
	CSCI 211 Computer Programming an	d Design			CSCI	443 Natural Language Processing
	CSCI 209 Programming Implementat	ion of Discrete			CSCI	444 Image Processing and Computer Vision
	Structures				CSCI	445 Reinforcement Learning and Autonomous Systems
	CSCI 212W Data Structures				CSCI	446 Cognitive Robotics
	CSCI 342W Social and Ethical Issues in Technology				ONE	course from Data Science Focus Area:
	CSCI 427 Artificial Intelligence Found	lations			CIS 4	470 Data Analytics
	CSCI 428 Machine Learning				CIS 4	172 Data Visualization
COG	NATES					A 245 Principles of Data Science
	MATH 212 Calculus I				DAT	A 345 Applied Linear Algebra for Statistical Learning
	MATH 240 Statistical Methods I					
	Choose a TWO COURSE sequence from:					
	BIOL 111 Introductory Biology I	CHEM 103 General Che		try I		PHYS 101 Physics for Science and Mathematics I
	BIOL 112 Introductory Biology II	CHEM 104 General Che		try II		PHYS 102 Physics for Science and Mathematics II

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 54 credits, and 40 credits for General Education. 12 Gen. Ed. credits for M, NS and Elective can double count, so the program could be completed in 82 credits.

SEMESTER 1	CR	SEMESTER 1 NOTES
CSCI 141 Application and Impact of Artificial	4	
Intelligence		
CSCI 211 Computer Programming and Design	4	Prereq = Math competency completed
MATH 240 Statistical Methods I	4	Prereq = completed college mathematics milestone or appropriate
		score on the mathematics placement exam
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, RIC 100
		Aim for 16 earned credits
		(While 12 is fulltime, 16 credits are preferred to stay on track to
		graduate in 4 years)
Requirements and GPA		Math competency completed. Minimum 2.0 GPA
		By October, make appointment w/ advisor to discuss schedule for
# CREDITS EARNED	18	next semester

SEMESTER 2	CR	SEMESTER 2 NOTES
CSCI 212 Data Structures	4	Prereq = CSCI 211
CSCI 209 Programming Implementation of Discrete	4	Prereq = CSCI 211
Structures		
General Education Course - Any but Math (M) or	3-4	Gen Ed Math (M) satisfied by MATH 212Natural Science (NS)
Natural Science (NS)		satisfied by
FYW 100 First Year Writing OR	4	
FYS 100 First Year Seminar		
		Need a minimum of 30 earned credits, with minimum of 2.0 GPA
Requirements and GPA		overall and in the major
	15	By March, make appointment w/ advisor to discuss schedule for next
# CREDITS EARNED	-16	semester

SEMESTER 3	CR	SEMESTER 3 NOTES
CSCI 427 Artificial Intelligence	4	Prereq = MATH 240 and CSC212W
300 level or above CIS, CSCI, or DATA Course	4	Prereqs vary —check catalog
MATH 212 Calculus I	4	Prereq = MATH 209 or appropriate score on placement exam
		Satisfies Gen Ed Math (M)
General Education Course (any still needed)	3-4	
		Need minimum of 45 earned credits, with minimum of 2.0 GPA
Requirements and GPA		overall and in the major
		By October, make appointment w/ advisor to discuss schedule for
# CREDITS EARNED	16	next semester

SEMESTER 4	CR	SEMESTER 4 NOTES
CSCI 428 Machine Learning	4	Prereq = CSCI 427
Choose ONE course from Data Science Focus Area	4	Prereqs vary—see catalog. Not all are offered every semester, see catalog for which semester is likely. Need to mcomplete ONE from Data Science focus area list
General Education Course (any still needed)	3-4	
Free Elective or Course for Minor or Math Course	4	
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 w/ advisor to discuss schedule for next semester

SEMESTER 5	CR	SEMESTER 5 NOTES
CSCI 342W Social and Ethical Issues in Technology	4	Prereq = Junior standing or 45 credits
Choose ONE course from Machine Learning Focus Areas	4	Prereqs vary—see catalog Not all are offered every semester, see catalog for which semester is likely Need to complete THREE from ML focus area list
Connections (Gen Ed-C)	4	Preregs = FYW and FYS
General Education Course (any still needed)	3-4	
Requirements and GPA		Aim for minimum of 80 earned credits, with minimum of 2.0 GPA overall and in the major
	15	By October, make appointment w/ advisor to discuss schedule
# CREDITS EARNED	-16	for next semester

SEMESTER 6	CR	SEMESTER 6 NOTES
Choose one course from Machine Learning Focus Areas	4	Prereqs vary—see catalog
		Not all are offered every semester, see catalog for which
		semester is likely
		Need to complete THREE from ML focus area list
Choose ONE from	4	BIOL 111 or CHEM 103 prereq = Math Milestone
BIOL 111 Introductory Biology I		PHYS 101 prereq = MATH 120 or appropriate score on
CHEM 103 General Chemistry I or		Mathematics Placement Exam
PHYS 101 Physics for Science or Mathematics I		
		Any will satisfy Gen Ed Natural Science (NS)
Free Elective or Course for Minor or Math Course	4	
Free Elective or Course for Minor or Math Course	4	
		Aim for minimum of 96 earned credits, with minimum of 2.0
		GPA overall and in the major. Apply for degree audit online
Requirements and GPA		through MyRIC
	16	By March, make appointment w/ advisor to discuss schedule
# CREDITS EARNED		for next semester

SEMESTER 7	CR	SEMESTER 7 NOTES
Choose ONE course from Machine Learning Focus Areas	4	Prerequisites = CSCI 209 (for CSCI 348)
		or CSCI 428 (for CSCI 445 and CSCI 446)
Free Elective or Course for Minor or Math Course	4	
General Education Course (any still needed)	3-4	
ONE to complete two course NS sequence: BIOL 112 Introductory Biology II CHEM 104 General Chemistry II PHYS 102 Physics for Science or Mathematics II	4	Prereq for each = the first in its sequence, so take the same subject
Requirements and GPA		Aim for minimum of 112 earned credits, with minimum of 2.0 GPA overall and in the major
·	15	By October, make appointment w/ advisor to discuss
# CREDITS EARNED	-16	schedule for next semester

SEMESTER 8	CR	SEMESTER 8 NOTES
Free Elective or Course for Minor or Math Course	4	
Free Elective or Course for Minor or Math Course	4	
Free Elective or Course for Minor or Math Course	4	
Free Elective or Course for Minor or Math Course	4	
Requirements and GPA		Need minimum of 128 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	16	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

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