- 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
 - 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 (Cannot be used as elective)	Distribution Courses -	Math (M) - Suggested in first year - Satisfied by MATH 212					
	On a frame	Arts (A)					
FYS 100 - Taken in first year	One from -	History/Philosophy (HP)					
(Cannot be used as elective)	category	Literature/Language (LL)					
		Natural Science (NS)					
Connections – Taken after FYW & FYS		Social & Behavioral Sciences (SB)					
		Elective(s) to bring total Gen Ed credits to 40 (E)					

MAJOR REQUIREMENTS CHECKLIST						
MATH 212 Calculus I	MATH 436 Discrete Mathematics					
MATH 213 Calculus II	DATA 445 Advanced Statistical Methods (Sp)					
MATH 240 Statistical Methods I OR	DATA 460W Seminar in Data Science (Sp)					
MATH 248 Business Statistics I						
DATA 245 Principles of Data Science	CSCI 157 Introduction to Algorithmic Thinking in Python					
MATH 314 Calculus III	CIS 455W Database Programming					
DATA 345 Applied Linear Algebra for Statistical Learning	PHIL 207 Technology and the Future of Humanity					

Graduation Requirements:

- Completion of General Education Requirements See table above
- Completion of Major Requirements See table above
- RIC 100 or Equivalent 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 2.0 GPA Need at least 2.0 for both overall and classes in major

The total credit count for the major is 41 credits, and 40 credits for General Education. However, 8 Gen. Ed. credits for M and Elective can double count, so the program can be completed in 73 credits.

SEMESTER 1	CR	SEMESTER 1 CHECKPOINTS
FYW 100 First Year Writing OR	4	FYW Directed Self Placement exam
FYS 100 First Year Seminar		
RIC 100 Introduction to RIC	1	Exempt if taking COLL 101, COLL 150, or HONR 150
MATH 240 Statistical Methods or	4	Prereq MATH 240= Milestone/placement exam
MATH 248 Business Statistics I		Prereq 248 = MATH 177, consent or placement exam
		Both satisfy Gen Ed Elective
General Education course	3-4	MATH (M) Gen Ed is satisfied by MATH 212
- Any but Mathematics (M)		
CSCI 157 Introduction to Algorithmic Thinking in		Prereq = Milestone/placement exam
Python	4	Prefeq - Willestone, placement exam
Tython		
		Aim for at least 16 earned credits (While 12 is fulltime, 16 credits are
		preferred to stay on track to graduate in 4 years). Minimum 2.0 GPA
Requirements and GPA		
	16	By October, make appointment with advisor to discuss your
# CREDITS EARNED	-17	schedule for next semester

SEMESTER 2	CR	SEMESTER 2 CHECKPOINTS
FYW 100 First Year Writing OR FYS 100 First Year Seminar	4	
MATH 212 Calculus I or prereq (if needed)	4	Dependent on Math Placement result. If prereq needed, MATH 212 can be taken later. Satisfies Gen Ed (M)
DATA 245 Principles of Data Science	4	Prereq = Math 240. Satisfies Gen Ed Elective
General Education course	3-4	
Requirements and GPA		Aim for minimum of 32 earned credits, with minimum of 2.0 GPA overall and in major
# CREDITS EARNED	15-16	By March, make appointment with advisor to discuss your schedule for next semester

SEMESTER 3	CR	SEMESTER 3 CHECKPOINTS
MATH 213 Calculus II	4	Prereq = MATH 212
General Education course	3-4	
PHIL 207 Technology and the Future of Humanity	3	
Elective or course toward second major or minor	3-4	
Requirements and GPA		Aim for minimum of 48 earned credits, with minimum of 2.0 GPA overall and in major.
	13	By October, make appointment with advisor to discuss your
# CREDITS EARNED	-15	schedule for next semester

SEMESTER 4	CR	SEMESTER 4 CHECKPOINTS
DATA 345 Applied Linear Algebra	4	Prereq = MATH 315 or both DATA 245 and MATH 212.
for Statistical Learning		
MATH 314 Calculus III	4	Prereq = MATH 213
General Education course	3-4	
General Education course	3-4	
		Aim for minimum of 64 earned credits, with minimum of 2.0 GPA
Requirements and GPA		overall and in major
	14	By March, make appointment with advisor to discuss your
# CREDITS EARNED	-16	schedule for next semester

SEMESTER 5	CR	SEMESTER 5 CHECKPOINTS
Connections (Gen Ed-C)	4	Prereqs = FYW and FYS.
CIS 455W Database Programming	3-4	Prereqs = CIS 252 or CSCI 102 or MATH 245,
		AND CIS 301 or CSCI 157, or consent of department chair
MATH 436 Discrete Mathematics	3	Prereq = MATH 212
Elective or course toward second major or minor	3-4	
		Aim for minimum of 80 earned credits, with minimum of 2.0 GPA overall and in major. If pursuing minor make sure you have
Requirements and GPA		registered for this with the relevant department prior to audit
	13	By October, make appointment with advisor to discuss your
# CREDITS EARNED	-15	schedule for next semester

SEMESTER 6	CR	SEMESTER 6 CHECKPOINTS
DATA 445 Advanced Statistical Methods (Sp)	4	Prereq = MATH 240 AND DATA 345
		or MATH 315
		or MATH 436 and prior/concurrent enrollment in CSCI 423.
General Education course	3-4	
Other Gen Ed if needed, or elective, or course towards	3-4	
minor		
Elective or course toward second major or minor	3-4	
		Aim for minimum of 96 earned credits, with minimum of 2.0 GPA
		overall and in major. Apply for degree audit online through MyRIC
		(If pursuing minor make sure you have registered for this with the
Requirements and GPA		relevant department prior to audit)
	13	By March, make appointment with advisor to discuss your
# CREDITS EARNED	-16	schedule for next semester

SEMESTER 7	CR	SEMESTER 7 CHECKPOINTS
Other Gen Ed if needed, or elective, or course towards	3-4	
minor		
Elective or course toward second major or minor	3-4	
Elective or course toward second major or minor	3-4	
Elective or course toward second major or minor	3-4	
		Aim for minimum of 108 earned credits, with minimum of 2.0
Requirements and GPA		GPA.
	12	By October, make appointment with advisor to discuss your
# CREDITS EARNED	-16	schedule for next semester

SEMESTER 8	CR	SEMESTER 8 CHECKPOINTS
DATA 460W Seminar in Data Science (Sp)	3	Prereq = DATA 445
Elective or course toward second major or minor	3-4	
Elective or course toward second major or minor	3-4	
Elective or course toward second major or minor	3-4	
		Need minimum of 120 earned credits, with minimum of 2.0 GPA
Requirements and GPA		overall and in major
	13	
# CREDITS EARNED	-15	Attend Gradfest and Commencement

Notes:

- No more than 2 classes with a grade of below C- can be counted towards the major
- 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.

Acknowledged by Department Chair: Rebecca Sparks	Date: 12/30/2024
Approved by Undergraduate Curriculum Committee	Date: 11/8/2024
Revised:	