- 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 (Cannot be used as elective)	Distribution Courses -	Math (M) - Suggested in first year - Satisfied by MATH 212			
(Carriot be used as elective)	J Courses -	Arts (A)			
FVO 400 Talvan in first us an	One from	History/Philosophy (HP)			
FYS 100 – Taken in first year (Cannot be used as elective)	each	Literature/Language (LL)			
	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	
MATH 212 Calculus I	MATH 314 Calculus III
MATH 213 Calculus II	MATH 315 Linear Algebra (F)
MATH 300W Bridge to Advanced Mathematics (Sp)	MATH 411 Advanced Calculus (F odd yrs)
MATH 314 Calculus III	
Choose THREE from:	
DATA 345 Applied Linear Algebra for Statistical Learning	MATH 417 Introduction to Numerical Analysis (Sp)
DATA 445 Advanced Statistical Methods (Sp)	MATH 431 Number Theory
MATH 416 Ordinary Differential Equations (Sp)	MATH 436 Discrete Mathematics (Sp)
Cognate	
Choose ONE from:	
CSCI 157 Introduction to Algorithmic Thinking in Python	MATH 240 Statistical Methods I
CHEM 103 General Chemistry I	MATH 248 Business Statistics
ECON 214 Principles of Microeconomics	PHIL 205W Introduction to Logic
ECON 215 Principles of Macroeconomics	PHYS 101 Physics for Science and Mathematics I

#### **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 GPA 2.0 overall

The total credit count for the major is 49-52 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 81-84 credits.

SEMESTER 1	CR	SEMESTER 1 NOTES
FYW 100 First Year Writing <b>OR</b>	4	FYW Directed Self Placement exam
FYS 100 First Year Seminar		
RIC 100 Introduction to Rhode Island College	1	Exempt if taking COLL 101, COLL 150, or HONR 150
MATH 212 Calculus I	4	Prereq = MATH 209 or appropriate score on the Mathematics
		Placement Exam
		May need to take MATH 209 here and push MATH 213 Calculus II
		and MATH 314 Calculus III back one semester
		Satisfies Gen Ed Math (M)
General Education Course (Any still needed)	3-4	PHYS 101 or CHEM 103 can double-count for
,		NS Gen Ed and major requirement
General Education Course (Any still needed)	3-4	
		Aim for 16 earned credits (While 12 is fulltime, 16 credits are
Des la contraction de COA		preferred to stay on track to graduate in 4 years) . Math
Requirements and GPA		competency completed. Minimum 2.0 GPA
	15	By October, make appointment with advisor to discuss your
# CREDITS EARNED	-17	schedule for next semester

SEMESTER 2	CR	SEMESTER 2 NOTES
FYW 100 First Year Writing <b>OR</b>	4	
FYS 100 First Year Seminar		
MATH 213 Calculus II	4	Prereq = MATH 212
General Education Course (Any still needed)	3-4	
General Education Course (Any still needed)	3-4	
		Aim for minimum of 32 earned credits, with minimum of 2.0 GPA
Requirements and GPA		overall and in the major
		By March, make appointment with advisor to discuss your
# CREDITS EARNED	14-16	schedule for next semester

SEMESTER 3	CR	SEMESTER 3 NOTES
ONE from:	3-4	Prereqs vary—see catalog.
CSCI 157 Introduction to Algorithmic Thinking in Python		PHYS 101 or CHEM 103 satisfy Gen Ed Natural Science (NS)
CHEM 103 General Chemistry I		
ECON 214 Principles of Microeconomics		
ECON 215 Principles of Macroeconomics		
MATH 240 Statistical Methods I		
MATH 248 Business Statistics		
PHIL 205W Introduction to Logic		
PHYS 101 Physics for Science and Mathematics		
or Gen Ed, elective, or course toward minor/major		
MATH 314 Calculus III	4	Prereq = MATH 213
Gen Ed. (if needed), elective,	3-4	
or course toward minor/major		
Gen Ed. (if needed), elective,	3-4	
or course toward minor/major		
		Aim for minimum of 48 earned credits, with minimum of 2.0 GPA
Requirements and GPA		overall and in the major
		By October, make appointment with advisor to discuss your
	13	schedule for next semester and discuss second major or possible
# CREDITS EARNED	-16	minor

SEMESTER 4	CR	SEMESTER 4 NOTES
ONE from	3-4	Prereqs vary—see catalog.
DATA 345 Applied Linear Algebra for Statistical Learning		MATH 431 or MATH 436 are recommended from the electives
DATA 445 Advanced Statistical Methods (Sp)		list
MATH 416 Ordinary Differential Equations (Sp)		MATH 431 & MATH 436 prereq = MATH 212
MATH 417 Introduction to Numerical Analysis (Sp)		Need THREE from this list
MATH 431 Number Theory		
MATH 436 Discrete Mathematics (Sp)		
ONE from	3-4	Prereqs vary—see catalog.
CSCI 157 Introduction to Algorithmic Thinking in Python		
CHEM 103 General Chemistry I		
ECON 214 Principles of Microeconomics		
ECON 215 Principles of Macroeconomics		
MATH 240 Statistical Methods I		
MATH 248 Business Statistics		
PHIL 205W Introduction to Logic		
PHYS 101 Physics for Science and Mathematics		
or Gen Ed, elective, or course toward minor/major		
MATH 300W Bridge to Advanced Mathematics (Sp)	4	Prereq = MATH 212
Gen Ed. (if needed), elective,	3-4	
or course toward minor/major		
		Aim for minimum of 64 earned credits, with minimum of 2.0
Requirements and GPA		GPA overall and in the major
	13	By March, make appointment with advisor to discuss your
# CREDITS EARNED	-16	schedule for next semester

SEMESTER 5	CR	SEMESTER 5 NOTES
MATH 411 Advanced Calculus (F odd yrs), elective, or course toward a minor	3-4	Prereq = MATH 213
MATH 315 Linear Algebra (F)	4	Prereq = MATH 300 or MATH 300W with a minimum grade of C
Gen Ed. (if needed), elective, or course toward minor/major	3-4	
Gen Ed. (if needed), elective, or course toward minor/major	3-4	
Requirements and GPA		Aim for minimum of 80 earned credits, with minimum of 2.0 GPA overall and in the major
# CREDITS EARNED	13 -16	By October, make appointment with advisor to discuss your schedule for next semester

SEMESTER 6	CR	SEMESTER 6 NOTES
Gen Ed - Connections	4	Prereqs = FYW and FYS.
ONE from	3-4	Prereqs vary—see catalog.
DATA 345 Applied Linear Algebra for Statistical Learning		
DATA 445 Advanced Statistical Methods (Sp)		
MATH 416 Ordinary Differential Equations (Sp)		
MATH 417 Introduction to Numerical Analysis (Sp)		
MATH 431 Number Theory		
MATH 436 Discrete Mathematics (Sp)		
MATH 432 Introduction to Abstract Algebra (Sp)	4	Prereq = MATH 300 or MATH 300W and MATH 315.
		This course could also be taken in Semester 8
Gen Ed. (if needed), elective,	3-4	If pursuing minor or second major make sure you have
or course toward minor/major		registered for this with the relevant department prior to audit
		Aim for minimum of 96 earned credits, with minimum of 2.0
		GPA overall and in the major. If pursuing minor or second major
		make sure you have registered for this with the relevant
		department prior to audit. Apply for degree audit online
Requirements and GPA		through MyRIC
	14	By March, make appointment with advisor to discuss your
# CREDITS EARNED	-16	schedule for next semester

SEMESTER 7	CR	SEMESTER 7 NOTES
MATH 411 Calculus IV (F odd yrs), elective, or course toward minor/major	3-4	Prereq = MATH 213. MATH 411 Completed
MATH 441 Introduction to Probability (F)	4	Prereq = MATH 314
Gen Ed. (if needed), elective,	3-4	
or course toward minor/major		
Elective or course toward minor/major	3-4	
Requirements and GPA		Aim for minimum of 108 earned credits, with minimum of 2.0 GPA overall and in the major
	13	By October, make appointment with advisor to discuss your
# CREDITS EARNED	-16	schedule for next semester

SEMESTER 8	CR	SEMESTER 8 NOTES
ONE from	3-4	Prereqs vary—see catalog.
DATA 345 Applied Linear Algebra for Statistical Learning		
DATA 445 Advanced Statistical Methods (Sp)		
MATH 416 Ordinary Differential Equations (Sp)		
MATH 417 Introduction to Numerical Analysis (Sp)		
MATH 431 Number Theory		
MATH 436 Discrete Mathematics (Sp)		
MATH 461W Seminar in Mathematics (Sp)	3	Prereqs = MATH 441 and prior or concurrent enrolment in
		MATH 432
Elective or course toward minor/major	3-4	
Elective or course toward minor/major	3-4	
		Need minimum of 120 earned credits, with minimum of 2.0 GPA
Requirements and GPA		overall and in the major
	12	Attend Gradfest and Commencement
# CREDITS EARNED	-15	

F

#### **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

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