ACADEMIC RHODE MAP
BA MATHEMATICS SECONDARY EDUCATION MAJOR

RHODE ISLAND COLLEGE

GENERAL EDUCATION: A complete listing of General Education courses can be found at the Office of Academic Support (OASIS) **401** 456-8083 or online at http://www.ric.edu/recordsoffice/Pages/College-Catalog.aspx look at catalog for year you enrolled. For Gen Ed courses, aside from Second Language requirement, which varies depending on where you are placed, you need ONE course from each category. Second Language 101/102 options are: American Sign, Arabic, French, German, Italian, Japanese, Korean, Latin, Portuguese, or Spanish. For other ways to satisfy the second language requirement look under the Gen Ed. section of the catalog. Any courses marked (F) offered Fall only; (Sp) Spring only. All courses marked with an asterisk * have a prerequisite. For information about Math Placement exam visit: http://www.ric.edu/orientation/Pages/Math-Placement.aspx. Courses with (WID) are Writing in the Discipline courses and will be writing intensive.

ACADEMIC MAJOR CHECKLIST	COURSE	EDUCATION COURSES	COURSE
CSCI 157 Introduction to Algorithmic Thinking in Python*		CEP 215 Introduction to Educational Psychology	
		FNED 101 Introduction to Teaching and Learning	
MATH 212 Calculus I*		FNED 246 Schooling for Social Justice*	
MATH 213 Calculus II*		SED 201 Introduction to Lesson Planning	
MATH 240 Statistical Methods I*		SED 202 Introduction to Assessment	
MATH 300 Bridge to Advanced Mathematics (Sp)* (WID)		SED 301 Discourses, Literacies, and Technologies of Learning (F)*	
MATH 314 Calculus III*		SED 303 Inquiry into STEM (F)*	
MATH 315 Linear Algebra (F)*		SED 315 Mathematic Teaching in a Diverse Classroom (Sp)*	
MATH 324 College Geometry*		SED 415 Rethinking Mathematics Teaching and Learning (F)*	
MATH 431 Number Theory*		SPED 333 Introduction to Special Education*	
MATH 432 Introduction to Abstract Algebra (Sp)*		TESL 401 Introduction to Teaching Emergent Bilinguals*	
MATH 441 Introduction to Probability (F)*		Either SPED 433 Special Education: Best Practices and Applications* OR TESL 402 Applications of Second Language Acquisition Theory*	
MATH 458 History of Mathematics (F)*		SED 420 Introduction to Student Teaching (early Sp)*	
PHYS 101 Physics for Science and Mathematics I*		SED 421 Student Teaching in the Secondary School (Sp)*	
PHYS 103 Calculus Applications in Mechanics (F)*		SED 422 Student Teaching Seminar in Secondary Ed. (Sp)*	

This map is a semester-by-semester plan to help you toward graduation in four years. Not everyone graduates in four years as it depends on how many courses you can take, and how you do in those courses. This map is not your only route; it is a suggestion. You might take additional courses over the summer (or early spring/winter) to catch up or get ahead if the courses you need are offered at these times. While many courses in your major will have prerequisites that will need you to take them in a special order, there is some flexibility in this map, but always double check you have the correct prerequisites for a course you plan to take.

The column to the left on the other side of this page suggests the ideal courses for you to take each semester. There are times when those courses may be full or unavailable the semester you plan to take them, in which case consider another course from a different semester with which you can switch. The column on the right has "Checkpoints" for each semester that show where you should be by the end of that semester. You should work from this map as you plan each semester's schedule, before checking in with your advisor. The Map is designed primarily for freshmen coming to college for the first time, but transfer students may also use the Rhode Map with the understanding that they have most likely completed several requirements through transfer of credit, and will be starting further into the program. Maps assume a Fall start, and to complete in four years may need to take a Gen Ed. course over one summer session.

GRADUATION REQUIREMENTS: The following requirements must be completed by undergraduate degree candidates at Rhode Island College in order to graduate:

- General Education program, including a second language requirement and RIC 100 or its equivalent
- College Math Competency (which is separate from the Gen Ed math requirement)
- College Writing Competency (satisfied by FYW with a minimum grade of C). **NOTE: Education students need a minimum of B**
- Academic Major--includes Education courses and Physics courses—see check chart above.
- A minimum of 120 credit hours, with a minimum of 45 credit hours taken at RIC. Of the 45 credit hours, a minimum of 15 credit hours must be in the major (12 of which must be at the 300- or 400-level).
- A minimum cumulative grade point average of 2.75 each semester, with minimum of B- in Education courses
- A minimum grade point average of 2.75 in your Mathematics major.

Approved by Department Chair and SED Coordinator: Lesley Bogad and Vivian LeFerla   Date 6/18/2020
Approved by Undergraduate Curriculum Committee: Date   6/18/2020   Revised:

SEMESTER 1	CR		SEMESTER 1 CHECKPOINTS ✓
First Year Writing (FYW 100) or First Year Seminar (FYS 100).	4		☐ FYW 100P is a 6 credit option. To decide which FYW to take, see Directed Self-Placement test at www.ric.edu/firstyearwriting
RIC 100 Introduction to Rhode Island College	1		☐ Exempt if taking COLL 101, COLL 150, or HONR 150
FNED 101 Introduction to Teaching and Learning	2		
MATH 212 Calculus I*	4		☐ Prereq is MATH 209, or appropriate score on math placement exam; satisfies Gen Ed Mathematics (M)
Gen Ed Distribution course from Arts (A); History (H); or Literature (L)	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 competency completed ☐ Minimum 2.75 overall GPA
# CREDITS EARNED	15		☐ Make appointment in Sept. with **Mathematics advisor** to discuss your schedule for next semester

SEMESTER 2	CR		SEMESTER 2 CHECKPOINTS ✓
FYW 100 or FYS 100	4		☐ Complete FYS and FYW, for FYW, grade B or better
Gen Ed--Second Lang 101 (based on placement, a course higher than 101/102 may be taken). If language requirement already satisfied: Gen Ed Distribution course from Arts (A); History (H); or Literature (L).	4		☐ Language placement test with Dept. of Modern Languages (optional) ☐ Complete Second Lang 101 (if needed)
Gen Ed Distribution course from Arts (A); History (H); or Literature (L).	4		
MATH 213 Calculus II*	4		☐ Prereqs MATH 212; minimum grade of C ☐ Satisfies Gen Ed AQSR
Gen Ed--Second Lang 102* (if needed) SUMMER	Su+4		☐ Take language 102 over summer if needed to keep on track for four years.
Requirements and GPA			☐ Aim for minimum of 32 earned credits ☐ Minimum 2.75 overall GPA
# CREDITS EARNED	16		☐ Make appointments with Mathematics and Secondary Education advisors in Feb. to discuss your schedule for next semester

SEMESTER 3	CR		SEMESTER 3 CHECKPOINTS ✓
MATH 240 Statistical Methods I*	4		☐ Prereq. math competency or appropriate score on math placement exam
MATH 314 Calculus III*	4		☐ Prereq MATH 213; minimum grade of C
PHYS 101 Physics for Science and Mathematics I*	4		☐ Prereq. MATH 120 or appropriate score on math placement exam.
FNED 246 Schooling for Social Justice*	4		☐ Prereq. 12 credits, FYW with minimum grade of B and FNED 101 minimum grade of B- ; need B- minimum in course
Requirements and GPA			☐ Minimum of 2.75 GPA overall; minimum of B- in Education courses ☐ Minimum GPA of 2.75 in Mathematics major courses
# CREDITS EARNED	16		☐ Make appointments with Mathematics and Secondary Education advisors in Sept. to discuss your schedule for next semester.

SEMESTER 4	CR		SEMESTER 4 CHECKPOINTS ✓
MATH 300 Bridge to Advanced Mathematics (Sp)*(WID)	4		☐ Prereq is MATH 213; minimum grade of C
MATH 324 College Geometry*	4		☐ Prereq. is MATH 212; minimum grade of C
SED 201 Introduction to Lesson Planning	2		☐ Prereq. FNED 246; concurrent with SED 202
SED 202 Introduction to Assessment	2		☐ Prereq. FNED 246; concurrent with SED 201
Gen Ed Connections (C)*	4		☐ Prereq. is 45 credits, FYW and FYS
If needed: Gen Ed Distribution course Arts (A); Literature (L); or History (H) over the summer if want to complete in four years	Su +4		☐ Completed Gen Ed Arts, History and Literature ☐ Only need ONE Gen Ed, from each distribution category
			☐ Core Academic Skills for Educators (ETS# 5751) ☐ Apply to Feinstein School of Education (FSEHD) ☐ Minimum of 2.75 GPA in Math courses and overall; minimum of B- in Education courses
Requirements and GPA			
# CREDITS EARNED	16		☐ Make appointment in Feb. with both advisors to discuss your schedule for next semester

SEMESTER 5	CR		SEMESTER 5 CHECKPOINTS ✓
MATH 315 Linear Algebra (F)*	4		☐ Prereq is MATH 300 with a minimum grade of C
MATH 441 Introduction to Probability (F)* or MATH 458 History of Mathematics (F)*	4		☐ Prereq for MATH 441 is MATH 314 ☐ Prereq. for MATH 458 is MATH 300 with a minimum grade of C
CEP 215 Introduction to Educational Psychology	4		☐ Minimum grade of B-; Satisfies Gen Ed. Social Behavioral Science (SB)
PHYS 103 Calculus Applications in Mechanics (F)*	1		☐ Prereqs. are MATH 212 and PHYS 101
SED 301 Discourses, Literacies, and Technologies of Learning (F)*	2		☐ Prereqs. SED 201 and SED 202 (with minimum grade of B-; concurrent enrollment in SED 303, or consent.
SED 303 Inquiry into STEM (F)*	2		☐ Prereq. Concurrent with SED 301
			☐ Minimum of 2.75 GPA in MATH courses and overall; minimum of B- in Education courses
Requirements and GPA			
# CREDITS EARNED	17		☐ Make appointment in Sept. with both advisors to discuss your schedule for next semester

SEMESTER 6	CR		SEMESTER 6 CHECKPOINTS ✓
MATH 432 Introduction to Abstract Algebra (Sp)*	4		☐ Prereq. is MATH 315
MATH 431 Number Theory*	3		☐ Prereq is MATH 212
SED 315 Mathematic Teaching in a Diverse Classroom (Sp)*	4		☐ Prereq,. SED 303
SPED 333 Introduction to Special Education*	3		☐ Prereq. is SED 202; minimum grade of B-
TESL 401 Introduction to Teaching Emergent Bilinguals*	4		☐ Prereq. is FNED 246; minimum grade of B-
			☐ Minimum of 2.75 GPA in Math courses and overall; minimum of B- in Education courses ☐ Attend Office of Partnerships and Placements orientation for student teachers; apply for student teaching ☐ Meet with research advisor ☐ Praxis II Principles of Learning and Teaching Exam (ETS# 5624 – Passing Score: 157) ☐ Praxis II Mathematics Content Knowledge Exam (ETS# 5161 – Passing Score: 160) ☐ Apply for degree audit online through MyRIC
Requirements and GPA			
# CREDITS EARNED	18		☐ Make appointment in Feb. with both advisors to discuss your schedule for next semester

SEMESTER 7	CR		SEMESTER 7 CHECKPOINTS ✓
CSCI 157 Introduction to Algorithmic Thinking in Python*	4		☐ Prereq is College Math competency completed
MATH 441 Introduction to Probability (F)* or MATH 458 History of Mathematics (F)*	4		☐ Prereq for MATH 441 is MATH 314 ☐ Prereq. for MATH 458 is MATH 300 with a minimum grade of C ☐ Complete MATH 441 and MATH 458
SED 415 Rethinking Mathematics Teaching and Learning (F)*	4		☐ Prereq. SED 315
SPED 433 Special Education: Best Practices and Applications* OR TESL 402 Applications of Second Language Acquisition Theory*	3		☐ Prereq. for SPED 433 is SPED 333; minimum grade of B- ☐ Prereq. for TESL 402 is TESL 401; minimum grade of B-
Requirements and GPA			☐ Minimum of 2.75 GPA overall ☐ Minimum GPA of 2.75 in Mathematics major courses ☐ Minimum of B- in Education courses ☐ Mathematics Content Portfolio
# CREDITS EARNED	15		☐ Make appointment in Sept. with Education advisor to discuss your schedule for next semester

SEMESTER 8	CR		SEMESTER 8 CHECKPOINTS ✓
SED 420 Introduction to Student Teaching (Sp)*	2		☐ Concurrent enrollment in SED 421 and SED 422. Must have completed all other required courses.
SED 421 Student Teaching in the Secondary School (Sp)*	7		☐ Concurrent enrollment in SED 420 and SED 422. Must have completed all other required courses with a minimum grade of B, recommendation from practicum instructor, completed community service, passing scores on Praxis II, approved mini-teacher candidate work sample, and negative result from tuberculin test.
SED 422 Student Teaching Seminar in Secondary Education (Sp)*	3		☐ Concurrent enrollment in SED 420 and SED 421. Must have completed all other required courses.
Requirements and GPA			☐ Need minimum of 120 earned credits (you will have more) ☐ All general education requirements completed ☐ Completion of all Mathematics content coursework ☐ Minimum GPA of 2.75 in Mathematics major courses ☐ Minimum of 2.75 GPA overall ☐ Minimum of B- in Education courses
# CREDITS EARNED	12		Attend Gradfest and Commencement

For more information, check the Education Studies Department website:
http://www.ric.edu/educationalStudies/Pages/default.aspx

NOTE: The total credit count for the SED/Mathematics major is 100 credits, although 16 of those may be offset against Gen Ed. courses (AQSR, M, NS and SB), which leaves 24 more credits of Gen Ed. and possibly 9 more depending on secondary language needs and RIC 100. The minimum credit count will be 124 credits (without secondary language or RIC 100).