

# Academic Rhode Map for BA General Science Secondary Education Major at Rhode Island College

**GENERAL EDUCATION:** A complete listing of General Education courses can be found in the online catalog; 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, Portuguese, or Spanish. For other ways to satisfy the second language requirement look under the Gen Ed. section of the catalog. For information about Math Placement exam visit the orientation webpage. Any courses marked (F) offered Fall only; (Sp) Spring only. **Courses with an asterisk\* have prerequisites. Courses with a "W" in the prefix are Writing in the Discipline (WID) courses and will be writing intensiv e.**

ACADEMIC MAJOR CHECKLIST	COURSE	EDUCATION COURSES	COURSE
BIOL 111 Introductory Biology I*		CEP 215 Introduction to Educational Psychology	
BIOL 112 Introductory Biology II*		FNED 101 Introduction to Teaching and Learning	
CHEM 103 General Chemistry I*		FNED 246 Schooling for Social Justice*	
CHEM 104 General Chemistry II*		SED 201 Introduction to Lesson Planning	
HIST 108 History of Science and Medicine		SED 202 Introduction to Assessment	
PHYS 101 Physics for Science and Mathematics I*		SED 301W Discourses, Literacies, and Technologies of Learning (F)* (WID)	
PHYS 102 Physics for Science and Mathematics II*		SED 303 Inquiry into STEM (F)*	
		SED 316 Teaching Science, Technology, and Society (Sp)*	
TWO courses from: PSCI 211 Introduction to Astronomy; PSCI 212 Geology (F, Su); PSCI 214 Introduction to Meteorology (F)*; or PSCI 217 Introduction to Oceanography (Sp)		SED 416 Practicum in Secondary Science Education (F)*	
		SPED 333 Introduction to Special Education*	
		TESL 401 Introduction to Teaching Emergent Bilinguals*	
		Either SPED 433 Special Education: Best Practices and Applications* OR TESL 402 Applications of Second Language Acquisition Theory*	
MATH 209 Pre-calculus*		SED 420 Introduction to Student Teaching (early Sp)*	
Research in Science course 491 (BIOL, CHEM, PHYS or PSCI)		SED 421 Student Teaching in the Secondary School (Sp)*	
		SED 422 Student Teaching Seminar in Secondary Ed. (Sp)*	

**NOTE: It is highly recommended that students also take the MLED courses that lead to Middle School Certification so these have been included on the map below, but they are not required for this program.**

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.

**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 Science courses—see check chart above. Writing in the Discipline requirement is satisfied through major courses
- 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 Science major

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<b>SEMESTER 1</b>	<b>CR</b>	<b>SEMESTER 1 CHECKPOINTS</b>
First Year Writing (FYW 100) or First Year Seminar (FYS 100).	4	FYW 100P is a 6-credit option. There is a Directed Self-Placement questionnaire you can take to aid in this decision; check the RIC First Year Writing website. Need minimum grade of B for FYW.
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	
BIOL 111 Introductory Biology I*	4	Prereq. Math Milestone; minimum grade of C. Satisfies Gen Ed Natural Science (NS)
CHEM 103 General Chemistry I*	4	Prereq. Math Milestone/placement exam; minimum grade of C
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 Milestone completed. Minimum 2.75 overall GPA; 2.50 in the Major
# CREDITS EARNED	15	Make appointment in Sept. with <b>Content advisor</b> to discuss your schedule for next semester

<b>SEMESTER 2</b>	<b>CR</b>	<b>SEMESTER 2 CHECKPOINTS</b>
FYW 100 or FYS 100	4	Complete FYS and FYW, for FYW, grade B or better
BIOL 112 Introductory Biology II*	4	Prereq. BIOL 111 with a minimum grade of C-; minimum grade of C
CHEM 104 General Chemistry II*	4	Prereq CHEM 103; minimum grade of C. Satisfies Gen Ed AQSR
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); or Literature (L)	4	Language placement test with Dept. of Modern Languages (optional). Complete Second Lang 101 (if needed).
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; 2.50 in the Major
# CREDITS EARNED	16	Make appointments with content and Secondary Education advisors in Feb. to discuss your schedule for next semester

<b>SEMESTER 3</b>	<b>CR</b>	<b>SEMESTER 3 CHECKPOINTS</b>
MATH 209 Precalculus Mathematics*	4	Prereqs. MATH 120 or Math Placement Exam; minimum grade of C; Satisfies Gen Ed Mathematics (M)
One from: PSCI 211 Introduction to Astronomy; PSCI 212 Geology (F, Su); PSCI 214 Introduction to Meteorology (F)*; or PSCI 217 Introduction to Oceanography (Sp)	4	Prereq. PSCI 214 is Gen Ed Math or NS. Minimum grade of C
FNED 246 Schooling for Social Justice*	4	Prereq. 12 credits, FYW with minimum grade of B and FNED 101; need B- minimum in course
HIST 108 History of Science and Medicine	4	Satisfies Gen Ed History (H)
Requirements and GPA		Core Academic Skills for Educators (ETS# 5751). Apply to Feinstein School of Education (FSEHD). Aim for minimum of 45 earned credits; minimum of 2.75 GPA overall; minimum of B- in Education courses; minimum GPA of 2.50 in Science major
# CREDITS EARNED	16	Make appointments with content advisor and Secondary Education advisor in Sept. to discuss your schedule for next semester.

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<b>SEMESTER 4</b>	<b>CR</b>	<b>SEMESTER 4 CHECKPOINTS</b>
SED 201 Introduction to Lesson Planning*	2	Prereq. FNED 246 and concurrent with SED 202
SED 202 Introduction to Assessment*	2	Prereq. FNED 246 and concurrent with SED 201
MATH 212 Calculus I*	4	Prereq is MATH 209; minimum grade of C
One from: PSCI 211 Introduction to Astronomy; PSCI 212 Geology (F, Su); PSCI 214 Introduction to Meteorology (F)*; or PSCI 217 Introduction to Oceanography (Sp)	4	Prereq. PSCI 214 is Gen Ed Math or NS. Minimum grade of C. Completed TWO PSCI course requirements
MLED 230 Young Adolescent Development in Social Contexts	4	Also offered over summer
Gen Ed course from Arts (A) or Literature (L), if needed.	Su +4	Take over summer to keep on track for four years if still needed.
Requirements and GPA		Minimum of 2.75 GPA overall; minimum of B- in Education courses; minimum GPA of 2.50 in Science major
# CREDITS EARNED	16	Make appointment in Feb. with both advisors to discuss your schedule for next semester

<b>SEMESTER 5</b>	<b>CR</b>	<b>SEMESTER 5 CHECKPOINTS</b>
PHYS 101 Physics for Science and Mathematics I*	4	Prereq. MATH 120 or appropriate score on math placement exam; Minimum grade of C
CEP 215 Introduction to Educational Psychology	4	Minimum grade of B-; satisfies Gen Ed. SB
MLED 331 Disciplinary Literacies with Young Adolescents	4	Prereq. MLED 230 or by consent of dept. chair
SED 301W Discourses, Literacies, and Technologies of Learning (F)* (WID)	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 301W
Requirements and GPA		Minimum of 2.75 GPA overall; minimum of B- in Education courses; minimum GPA of 2.50 in Science major. Check with advisor over which praxis tests to take.
# CREDITS EARNED	16	Make appointment in Sept. with both advisors to discuss your schedule for next semester

<b>SEMESTER 6</b>	<b>CR</b>	<b>SEMESTER 6 CHECKPOINTS</b>
PHYS 102 Physics for Science and Mathematics II*	4	Prereq. PHYS 101; minimum grade of C; satisfies Gen Ed. AQSR
SED 316 Teaching Science, Technology, and Society (Sp)*	4	Prereq. SED 303 and 28 completed credits in the major; minimum grade of B-
SPED 333 Introduction to Special Education*	3	Prereq. is SED 202; minimum grade of B-
TESL 401 Introduction to Teaching Emergent Bilinguals*	4	Prereq. FNED 246
Gen Ed course from Arts (A) or Literature (L), if needed.	Su +4	Gen Ed Arts and Literature completed; take over summer to keep on track for four years if still needed.
Requirements and GPA		Minimum of 2.75 GPA overall; minimum of B- in Education courses. Minimum GPA of 2.50 in Science major. Attend Office of Partnerships and Placements orientation for student teachers; apply for student teaching. Meet with research advisor. Praxis II Biology Content Knowledge Exam (ETS# 5235 – Passing Score: 157). Apply for degree audit online through MyRIC
# CREDITS EARNED	15	Make appointment in Feb. with both advisors to discuss your schedule for next semester

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<b>SEMESTER 7</b>	<b>CR</b>	<b>SEMESTER 7 CHECKPOINTS</b>
Gen Ed Connections (C)*	4	Prereq. for (C) is 45 credits, FYW and FYS
XXXX 491 Research in BIOL, CHEM, PHYS, or PSCI	1	Prereqs. vary—see catalog; minimum grade of C
MLED 332 Curriculum and Assessment for Young Adolescents*	4	Prereqs. MLED 230 and MLED 331 or consent of dept. chair
SED 416 Practicum in Secondary Science Education (F)*	4	Prereq. SED 316
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 of B- in Education courses; minimum GPA of 2.50 in Science major
# CREDITS EARNED	16	Make appointment in Sept. with Education advisor to discuss your schedule for next semester

<b>SEMESTER 8</b>	<b>CR</b>	<b>SEMESTER 8 CHECKPOINTS</b>
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). Completion of all General Science content coursework. 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:**

<https://www.ric.edu/department-directory/department-educational-studies>

MLED certification courses are: MLED 230 Young Adolescent Development in Social Contexts; MLED 331 Disciplinary Literacies with Young Adolescents\*; and MLED 332 Curriculum and Assessment for Young Adolescents\* (12 credits). These have been included on this Map.

**NOTE: The total credit count for the SED/General Science major is 89 credits (without MLED), although 20 of those may be offset against Gen Ed. courses (AQSR, H, M, NS, SB), which leaves 20 more credits of Gen Ed. and possibly 9 more depending on secondary language needs and RIC 100. The minimum credit count will be 109 credits (without secondary language or RIC 100), leaving a possible 11 elective credits.**

**NOTE: This General Science Secondary Education Major has greater flexibility and is a preferable program to taking Biology, Chemistry or Physics as an individual science. These science concentrations can be added as Certificates of Undergraduate Study (CUS) to compliment the General Science Major.**