

# ACADEMIC RHODE MAP

## BA BIOLOGY SECONDARY EDUCATION MAJOR



**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; (Su) Summer. All courses marked with an asterisk \* have a prerequisite. For info. about Math Placement exam visit: <http://www.ric.edu/orientation/Pages/Math-Placement.aspx>

ACADEMIC MAJOR CHECKLIST	COURSE	MORE MAJOR AND EDUCATION COURSES	COURSE
BIOL 111 Introductory Biology I*		PHYS 101 Physics for Science and Mathematics I	
BIOL 112 Introductory Biology II*		PSCI 212 Introduction to Geology (F, Su)	
BIOL 213 Plants and Animal Form and Function*		PSCI 357 Historical & Contemporary Contexts of Science*	
BIOL 314 Genetics (F)*		MATH 209 Pre-calculus Mathematics*	
BIOL 318 Ecology (F)*		MATH 240 Statistical Methods I*	
BIOL 320 Cell & Molecular Biology (Sp)*		CEP 315 Educational Psychology*	
BIOL 348 Microbiology*		FNED 246 Schooling for Social Justice*	
BIOL 491 Research in Biology*		SED 406 Instructional Methods, Design, and Tech. (F)*	
One course from: BIOL 321 Invertebrate Zoology*, BIOL 329 Comparative Vertebrate Anatomy*, BIOL 330 Developmental Biology of Animals*, BIOL 353 The Plant Kingdom*, BIOL 354 Plant Growth & Development*		SED 407 Instructional Methods, Design, and Literacy (Sp)*	
CHEM 103 General Chemistry I*		SED 411 Content and Pedagogy in Secondary Ed. (F)*	
CHEM 104 General Chemistry II*		SED 412 Field Practicum (F)*	
CHEM 205 Organic Chemistry I (F, Su)*		SED 421 and SED 422 Student Teaching*	
CHEM 206 Organic Chemistry II (Sp, Su)*		SPED 433 Special Education: Best Practices and Applications*	

**NOTE: Will also need PHYS 102 General Physics II\* for General Science certification**

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 Biology 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 2.50 in your Biology major.

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RHODE ISLAND COLLEGE

<b>SEMESTER 1</b>	<b>CR</b>	<b>SEMESTER 1 CHECKPOINTS ✓</b>
First Year Writing (FYW 100) or First Year Seminar (FYS 100).	4	<input type="checkbox"/> FYW 100P is a 6 credit option. To decide which FYW to take, see Directed Self-Placement test at <a href="http://www.ric.edu/firstyearwriting">www.ric.edu/firstyearwriting</a>
RIC 100 Introduction to RIC	1	<input type="checkbox"/> Exempt if taking COLL 101, COLL 150, or HONR 150
BIOL 111 Introductory Biology I* General Biology I	4	<input type="checkbox"/> Prereq. Math competency; minimum grade of C <input type="checkbox"/> Satisfied Gen Ed Natural Science (NS)
CHEM 103 General Chemistry I*	4	<input type="checkbox"/> Prereq. Math competency/placement; min. grade of C
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); Literature (L), or Social and Behavioral Sciences (SB)	4	<input type="checkbox"/> Language placement test with Dept. of Modern Languages (optional) <input type="checkbox"/> Complete Second Lang 101 (if needed)
Requirements and GPA		<input type="checkbox"/> Aim for 16 earned credits (While 12 is fulltime, 16 credits are preferred to stay on track to graduate in 4 years) <input type="checkbox"/> Math competency completed <input type="checkbox"/> Minimum 2.75 overall GPA; 2.50 in the Major
# CREDITS EARNED	17	<input type="checkbox"/> Make appointment in Sept. with <b>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	<input type="checkbox"/> Complete FYS and FYW, for FYW, grade B or better
BIOL 112 Introductory Biology II*	4	<input type="checkbox"/> Prereq BIOL 111; minimum grade of C
CHEM 104 General Chemistry II*	4	<input type="checkbox"/> Prereq CHEM 103; minimum grade of C-
Gen Ed--Second Lang 102* (if needed), or other needed Gen Ed course.	4	<input type="checkbox"/> Complete Second Lang 102*, grade C or better (if needed)
SUMMER SESSION: Gen Ed distribution	(4) Su	<input type="checkbox"/> Strongly recommend to be able to complete in 4 years
Requirements and GPA		<input type="checkbox"/> Aim for minimum of 32 earned credits <input type="checkbox"/> Minimum 2.75 overall GPA; 2.50 in the Major
# CREDITS EARNED	16+4 (Su)	<input type="checkbox"/> Make appointments with Biology 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>
BIOL 314 Genetics (F)* Cell & Molecular Biology	4	<input type="checkbox"/> Prereqs BIOL 111, BIOL 112 with a grade of C or better; minimum grade of C; satisfies Gen Ed. AQSR.
CHEM 205 Organic Chemistry I (F, Su)*	4	<input type="checkbox"/> CHEM 104 with a minimum of C-; minimum grade of C
FNED 246 Schooling for Social Justice*	4	<input type="checkbox"/> Prereq. FYW with minimum grade of B; minimum grade of B- in FNED 246.
BIOL 213 Plants and Animal Form and Function*	4	<input type="checkbox"/> Prereqs BIOL 111 and BIOL 112 with a grade of C or better; Minimum grade of C
Requirements and GPA		<input type="checkbox"/> Aim for minimum of 45 earned credits, <input type="checkbox"/> Minimum 2.75 overall GPA <input type="checkbox"/> Minimum GPA of 2.50 in Biology major; B- in Education
# CREDITS EARNED	16	<input type="checkbox"/> Make appointments with Biology and Secondary Education advisors 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>
BIOL 320 Cell and Molecular Biology	4	<input type="checkbox"/> Prereqs BIOL 111, BIOL 112 with a grade of C or better, BIOL 221 and CHEM 205; minimum grade of C
CHEM 206 Organic Chemistry II (Sp, Su)*	4	<input type="checkbox"/> Prereq. CHEM 205; minimum grade of C
MATH 209 Precalculus Mathematics*	4	<input type="checkbox"/> Prereqs. MATH 120 or by consent <input type="checkbox"/> Satisfies Gen Ed Mathematics (M)
Gen Ed Connections (C)* OR PSCI 357 Historical & Contemporary Contexts of Science* if being offered	3-4	<input type="checkbox"/> Prereq. for (C) is 45 credits, FYW and FYS <input type="checkbox"/> Prereq. for PSCI 357 is any Gen Ed NS
SUMMER SESSION: Gen Ed distribution	(4) Su	<input type="checkbox"/> Strongly recommend to be able to complete in 4 years
Requirements and GPA		<input type="checkbox"/> Core Academic Skills for Educators (ETS# 5751) <input type="checkbox"/> Apply to Feinstein School of Education (FSEHD) <input type="checkbox"/> Minimum of 2.75 GPA overall <input type="checkbox"/> Minimum GPA of 2.50 in Biology major; B- in Education
# CREDITS EARNED	15-16 +4 (Su)	<input type="checkbox"/> 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>
BIOL 318 Ecology (F)*	4	<input type="checkbox"/> Prereqs BIOL 111, BIOL 112 with a grade of C or better; minimum grade of C
PHYS 101 Physics for Science and Mathematics I*	4	<input type="checkbox"/> Prereq. MATH 120 or placement; minimum grade of C
PSCI 212 Introduction to Geology (F, Su)	4	<input type="checkbox"/> Minimum grade of C
CEP 315 Educational Psychology*	3	<input type="checkbox"/> Prereq. Admission to FSEHD; minimum grade of B-
SED 406 Instructional Methods, Design, and Tech. (F)*	3	<input type="checkbox"/> Prereq. Admission to FSEHD; minimum grade of B-
Requirements and GPA		<input type="checkbox"/> Minimum of 2.75 GPA overall; minimum of B- in Education courses; minimum GPA of 2.50 in Biology major
# CREDITS EARNED	18	<input type="checkbox"/> 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>
<b>One course from:</b> BIOL 300 Developmental Biology (Sp)*, BIOL 321 Invertebrate Zoology*, BIOL 329 Comparative Vertebrate Anatomy*, BIOL 353 The Plant Kingdom*, BIOL 354 Plant Growth & Development*	4	<input type="checkbox"/> Prerequisites vary--see catalog <input type="checkbox"/> Minimum grade of C
PHYS 102 Physics for Science and Mathematics II*	4	<input type="checkbox"/> Prereq PHYS 101; Needed for General Science certification
Gen Ed Connections (C)* OR PSCI 357 Historical & Contemporary Contexts of Science* if being offered	3-4	<input type="checkbox"/> Prereq for (C) is 45 credits, FYW and FYS <input type="checkbox"/> Prereq for PSCI 357 is any Gen Ed NS; PSCI 357 completed
SPED 433 Special Education: Best Practices and Applications*	3	<input type="checkbox"/> Prereq SED 406; minimum grade of B-
SED 407 Instructional Methods, Design, and Literacy (Sp)*	3	<input type="checkbox"/> Prereq SED 406; minimum grade of B-
SUMMER SESSION: Gen Ed distribution, if needed	(4) Su	<input type="checkbox"/> Strongly recommend to be able to complete in 4 years
Requirements and GPA		<input type="checkbox"/> Minimum of 2.75 GPA overall <input type="checkbox"/> Minimum GPA of 2.50 in Biology major <input type="checkbox"/> Attend Office of Partnerships and Placements orientation for student teachers; apply for student teaching <input type="checkbox"/> Meet with Biology research advisor <input type="checkbox"/> Praxis II Principles of Learning and Teaching Exam (ETS# 5624 – Passing Score: 157) <input type="checkbox"/> Praxis II Biology Content Knowledge Exam (ETS# 5235 – Passing Score: 157) <input type="checkbox"/> Apply for degree audit online through MyRIC
# CREDITS EARNED	16-18	<input type="checkbox"/> 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>
SED 411 Content and Pedagogy in Secondary Ed. (F)*	4	<input type="checkbox"/> Prereq. SED 407, concurrent with SED 412, minimum grade of B- <input type="checkbox"/> Mini-Teacher Candidate Work Sample
SED 412 Field Practicum in Secondary Ed.(F)*	2	<input type="checkbox"/> Prereq. SED 407, concurrent with SED 411, minimum grade of B-
BIOL 348 Microbiology*	4	<input type="checkbox"/> Prereqs BIOL 111, BIOL 112 with a grade of C or better;
BIOL 491 Research in Biology*	1	<input type="checkbox"/> Prereq. two 300-level BIOL courses and consent; minimum grade of C
MATH 240 Statistical Methods I*	4	<input type="checkbox"/> Prereq.MATH 120 or consent; minimum grade of C
Requirements and GPA		<input type="checkbox"/> Minimum of 2.75 GPA overall <input type="checkbox"/> Minimum GPA of 2.50 in Biology major; minimum of B- in Education courses
# CREDITS EARNED	15	<input type="checkbox"/> 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 421 Student Teaching*	10	<input type="checkbox"/> Satisfactory Recommendation
SED 422 Student Teaching Seminar*	2	<input type="checkbox"/> Minimum grade of B- <input type="checkbox"/> Teacher Candidate Work Sample
Requirements and GPA		<input type="checkbox"/> Need minimum of 120 earned credits (you will have more) <input type="checkbox"/> Completion of all Biology content coursework <input type="checkbox"/> Minimum of 2.75 GPA overall <input type="checkbox"/> Minimum GPA of 2.50 in Biology major; 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/Biology major is 102 credits, although 12 of those may be offset against Gen Ed. courses (AQSR, M, NS), which leaves 28 more credits of Gen Ed. and possibly 9 more depending on secondary language needs and RIC 100. The minimum credit count will be 130 credits (without secondary language or RIC 100).