

## ACADEMIC RHODE MAP BS BIOLOGY 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; (Su) Summer (some with session number included). All courses marked with an asterisk \* have a prerequisite. Math Placement exam visit: <http://www.ric.edu/orientation/Pages/Math-Placement.aspx>

Academic Major Checklist	Course	Academic Major Checklist	Course
BIOL 111 Introductory Biology I*		TWO 300 level or above BIOL (one of these may consist of three or more credits in BIOL 491-494 Research*)	
BIOL 112 Introductory Biology II*		CHEM 103 General Chemistry I* (F, Sp, Sul)	
BIOL 213 Plant and Animal Form and Function*		CHEM 104 General Chemistry II* (Sp, Su)	
BIOL 241 Biology Research Colloquium* x 2		CHEM 205 Organic Chemistry I* (F, Sul)	
BIOL 314 Genetics (F)*		CHEM 206 Organic Chemistry II* (Sp, Sull)	
BIOL 318 Ecology (F)*		MATH 240 <b>or</b> BIOL 240 Statistics*	
BIOL 320 Cell and Molecular Biology (Sp)*		MATH 209 <b>or</b> MATH 212 (Pre)Calculus*	
BIOL 460 Biology Senior Seminar*		PHYS 101 Physics for Science and Mathematics I*	
		PHYS 102 Physics for Science and Mathematics II*	
ONE from 321 Invertebrate Zoology*, 324 Vertebrate Zoology*, 329 Comparative Vertebrate Anatomy*, BIOL 330 Developmental Biology of Animals (Alt.yrs)*, 353 The Plant Kingdom*, or 354 Plant Growth and Development*			

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. While there are many courses in your major that have prerequisites that will need you to take them in a special order, there is some flexibility in this map. All courses that have prerequisites are marked with an asterisk\* in the checklists above and in the map.

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 with your advisor. You should plan to see your advisor in late September for the Spring Semester and in February for the Fall. 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 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)
- Academic Major—see check chart below.
- 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 overall grade point average of 2.0
- A minimum grade point average of 2.0 in your 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	<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/Pages/default.aspx">http://www.ric.edu/firstyearwriting/Pages/default.aspx</a>
RIC 100 Introduction to Rhode Island College	1	<input type="checkbox"/> Exempt if taking COLL 101, COLL 150, or HONR 150
CHEM 103 General Chemistry I (F, Sul)* satisfies Gen Ed Natural Science (NS) Lecture and Lab.	4	<input type="checkbox"/> Math competency or placement on Math exam MUST be completed in order to take ALL science courses. If not, will need to take MATH 010 this semester
BIOL 111 Introductory Biology I* Lecture and Lab.	4	<input type="checkbox"/> Must complete with C- or better to proceed to BIOL 112
Gen Ed--Second Lang 101 (based on placement, course higher than 101/102 may be taken). If lang. req. already satisfied: Any Gen Ed Distribution course.	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 at least 16 earned credits (While 12 is fulltime, 16 credits are preferred to stay on track to graduate in 4 years) <input type="checkbox"/> Minimum 2.0 GPA
# CREDITS EARNED	17	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Sept.

<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 C or better
BIOL 112 Introductory Biology II* Lecture and Lab.	4	<input type="checkbox"/> Must complete BIOL 112 sequence with a C or better
CHEM 104 General Chemistry II (Sp, Su)* Lecture and Lab (Gen Ed ASQR)	4	<input type="checkbox"/> Gen Ed- Advanced Quantitative/ Scientific Reasoning completed
Gen Ed--Second Lang 102* (if needed), or Gen Ed	3-4	<input type="checkbox"/> Complete Second Language 102*, grade C or better (if needed)
Requirements and GPA		<input type="checkbox"/> Aim for minimum of 32 earned credits <input type="checkbox"/> Minimum 2.0 GPA
# CREDITS EARNED	15-16	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Feb.

<b>SEMESTER 3</b>	<b>CR</b>	<b>SEMESTER 3 CHECKPOINTS ✓</b>
BIOL 314 Genetics* (F) Lecture and Lab	4	<input type="checkbox"/> Prereqs are BIOL 111 and BIOL 112 with a C or better
CHEM 205 Organic Chemistry I*(F,Sul) Lecture and Lab	4	<input type="checkbox"/> Prereqs are CHEM 105 and 106
MATH 209* or 212* Pre/Calculus. Either one satisfies Gen Ed Math (M)	4	<input type="checkbox"/> Prereqs. MATH 209 has MATH 120 or appropriate score on mathematics placement exam; MATH 212 has MATH 209 or appropriate score on mathematics placement exam.
Gen Ed Distribution course from <b>one</b> of these GE categories: Arts (A); Literature (L); History (H), or Social and Behavioral Sciences (SB).	4	
Requirements and GPA		<input type="checkbox"/> Aim for minimum of 48 earned credits, <input type="checkbox"/> Minimum of 2.0 GPA overall and in major
# CREDITS EARNED	13-16	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester and discuss possible minor in Sept. <input type="checkbox"/> Also discuss opportunities for research and Independent study

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<b>SEMESTER 4</b>	<b>CR</b>	<b>SEMESTER 4 CHECKPOINTS ✓</b>
BIOL 241 (0.5) - Colloquium	0.5	<input type="checkbox"/> Prereqs are BIOL 111 and BIOL 112
MATH 240 <b>or</b> BIOL 240 Statistics*	4	<input type="checkbox"/> Prereqs are college math competency or appropriate score on the mathematics placement exam for MATH 240; C or better in BIOL 100, 108 or 112 for BIOL 240
BIOL 213 Plant and Animal Form and Function* Lecture and Lab	4	<input type="checkbox"/> Prereqs are BIOL 111 and BIOL 112 with a minimum grade of C
CHEM 206 Organic Chemistry II* (Sp, Sull) Lecture and Lab	4	<input type="checkbox"/> Prereq CHEM 205
Gen Ed., elective, or course toward minor/major	3-4	
Requirements and GPA		<input type="checkbox"/> Aim for minimum of 64 earned credits <input type="checkbox"/> Minimum of 2.0 GPA overall and in major
# CREDITS EARNED	15.5-16.5	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Feb. <input type="checkbox"/> Discuss opportunities for research and Independent study with your advisor if you have not already done so

<b>SEMESTER 5</b>	<b>CR</b>	<b>SEMESTER 5 CHECKPOINTS ✓</b>
BIOL 318 Ecology (F)	4	<input type="checkbox"/> Prereqs are BIOL 111 and BIOL 112 with a C or better, and BIOL 213
PHYS 101 Physics for Science and Mathematics I* (Lecture and Lab)	4	<input type="checkbox"/> Prereq. MATH 120 or appropriate score on mathematics placement exam
BIO 300/400 Biology Elective <b>OR</b> first Independent Study (BIOL 49X)*		<input type="checkbox"/> Check specific Prereqs for each course <input type="checkbox"/> <i>Note: a 49X Independent study (research) can be taken any semester. See your advisor EARLY to inquire about opportunities in the Biology department</i>
Gen Ed., elective, or course toward minor/major	3-4	Note: You need ONE from each Gen Ed. category
Requirements and GPA		<input type="checkbox"/> Aim for minimum of 80 earned credits <input type="checkbox"/> Minimum of 2.0 GPA overall and in major
# CREDITS EARNED	15-16	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Sept.

<b>SEMESTER 6</b>	<b>CR</b>	<b>SEMESTER 6 CHECKPOINTS ✓</b>
Choose 1 Connections course (Gen Ed-C)	4	<input type="checkbox"/> Prereqs are 45 completed credits and FYW and FYS.
PHYS 102 Physics for Science and Mathematics II*	4	<input type="checkbox"/> Prereq. is PHYS 101
BIOL 320 Cell and Molecular Biology (Sp)* Lecture and Lab	4	<input type="checkbox"/> Prereqs are BIOL 111 and BIOL 112 with a C or better, BIOL 314 and CHEM 205
Gen Ed., elective, or course toward minor/major	3-4	<input type="checkbox"/> If pursuing minor or second major make sure you have registered for this with the relevant department prior to audit
Requirements and GPA		<input type="checkbox"/> All ten GE courses and second lang. req. completed <input type="checkbox"/> Aim for minimum of 96 earned credits <input type="checkbox"/> Minimum of 2.0 GPA overall and in major <input type="checkbox"/> Apply for degree audit online through MyRIC
# CREDITS EARNED	14-16	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Feb.

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<b>SEMESTER 7</b>	<b>CR</b>	<b>SEMESTER 7 CHECKPOINTS ✓</b>
BIOL elective (300/400) with or without lab* <b>OR</b> second Independent Study (BIOL 49X)	3-4	<input type="checkbox"/> May use three or more credits in BIOL 491-494 Research in Biology*
Choose ONE organismal elective from BIOL 330 (Sp), 321, 324, 329, 353, or 354* Lecture and Lab	4	<input type="checkbox"/> Minimum Prereqs: BIOL 111 and BIOL 112 with C or better (note BIOL 330 also requires BIOL 314)
Gen Ed., elective, or course toward minor/major	3-4	
Gen Ed., elective, or course toward minor/major	3-4	
Requirements and GPA		<input type="checkbox"/> Aim for minimum of 108 earned credits <input type="checkbox"/> Minimum of 2.0 GPA <input type="checkbox"/> Minimum GPA of 2.0 in major <input type="checkbox"/> All ten GE courses and second lang. req. completed
# CREDITS EARNED	13-16	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Sept.

<b>SEMESTER 8</b>	<b>CR</b>	<b>SEMESTER 8 CHECKPOINTS ✓</b>
BIOL elective (300/400) with or without lab* <b>OR</b> second Independent Study (BIOL 49X)	3-4	<input type="checkbox"/> TWO BIOL 300/400 electives completed <input type="checkbox"/> May use three or more credits in BIOL 491-494 Research*
BIOL 460 Senior Seminar*	3	<input type="checkbox"/> Prereqs: 90 credit hours, BIOL 111, 112, with C or better, BIOL 314, 318, 320, or consent of chair
BIOL 241 Colloquium	0.5	<input type="checkbox"/> Prereqs are BIOL 111 and BIOL 112 <input type="checkbox"/> 2 semesters of BIOL 241 completed
Elective, or course toward minor/major	3-4	
Elective, or course toward minor/major	3-4	
Requirements and GPA		<input type="checkbox"/> Need minimum of 120 earned credits <input type="checkbox"/> Minimum of 2.0 GPA <input type="checkbox"/> Minimum GPA of 2.0 in major
# CREDITS EARNED	12.5-15.5	Attend Gradfest and Commencement

For more information, check the **BIOLOGY** Department website:

<http://www.ric.edu/biology/Pages/default.aspx>

**NOTE: The minimum total credit count for the major is 70 credits (depending on choices), and 40 credits for Gen. Ed. However, 12 Gen Ed. credits for M, NS and AQSR will double-count, making the total 98 credits, leaving room for 22 credits that may need to include two secondary language courses and RIC 100, but could go toward a minor or electives.**