

## Academic Rhode Map for BS Biology Major at Rhode Island College

- This Rhode Map is a suggested pathway to graduation in 8 semesters
  - 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
  - In these cases, courses listed in future semesters can be substituted if their prerequisites have been satisfied
  - 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
  - Students starting in the spring may need to adjust based on class offerings and availability

<b>GENERAL EDUCATION REQUIREMENTS CHECKLIST</b>				
	<b>FYW 100</b> – Taken in first year (Cannot be used as elective)	<b>Distribution Courses -</b>  One from each category		<b>Math (M)</b> - Suggested in first year Satisfied by Math 209/212
	<b>FYS 100</b> – Taken in first year (Cannot be used as elective)			<b>Arts (A)</b>
				<b>History/Philosophy (HP)</b>
				<b>Literature/Language (LL)</b>
				<b>Natural Science (NS)</b> – Satisfied by CHEM 103
	<b>Connections</b> – Taken after FYW & FYS			<b>Social &amp; Behavioral Sciences (SB)</b>
				<b>Elective(s) to bring total Gen Ed credits to 40 (E)</b>

<b>MAJOR REQUIREMENTS CHECKLIST</b>				
	BIOL 111 Introductory Biology I			CHEM 103 General Chemistry I (F, Sp, Sum)
	BIOL 112 Introductory Biology II			CHEM 104 General Chemistry II (Sp, Sum)
	BIOL 213W Plant and Animal Form and Function			CHEM 205W Organic Chemistry I (F, Sum)
	BIOL 241 Biology Research Colloquium x 2			CHEM 206W Organic Chemistry II (Sp, Sum)
	BIOL 314 Genetics (F)			MATH 240 Statistical Methods <b>OR</b> BIOL 240 Biostatistics and Experimental Design
	BIOL 318 Ecology (F)			MATH 209 Precalculus Math <b>OR</b> MATH 212 Calculus
	BIOL 320 Cell and Molecular Biology (Sp)			PHYS 101 Physics for Science and Mathematics I
	BIOL 460W Biology Senior Seminar			PHYS 102 Physics for Science and Mathematics II
	<b>THREE</b> 300-level or above BIOL			
	(One of these may consist of three or more credits in BIOL 491-494 Research)			

### 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 2.0 GPA** — Need at least 2.0 for both overall and classes in major

The total credit count for the major is 69-72 credits, and 40 credits for General Education. 12 Gen. Ed. credits for M, NS and Elective can double count, so the program could be completed in 97-100 credits.

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<b>SEMESTER 1</b>	<b>CR</b>	<b>SEMESTER 1 NOTES</b>
FYW 100 First Year Writing <b>OR</b> FYS 100 First Year Seminar	<b>4</b>	FYW Directed Self Placement exam
RIC 100 Introduction to Rhode Island College	<b>1</b>	Exempt if taking COLL 101, COLL 150, or HONR 150
MATH 209 Precalculus or MATH 212 Calculus Both satisfy Gen Ed Math (M)	<b>4</b>	Math class choice based on Math placement result. If milestone is complete but did not place into 209, take MATH 120 here. If milestone is not complete, take MATH 10
CHEM 103 General Chemistry I (F, Sum) Satisfies Gen Ed Natural Science (NS)	<b>4</b>	Math Milestone is a prerequisite for all science courses. If not completed, take MATH 010 this semester
BIOL 111 Introductory Biology I Lecture and Lab	<b>4</b>	Complete with C- or better to proceed to BIOL 112.
<b>Requirements and GPA</b>		<i>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 2.0 GPA</i>
<b># CREDITS EARNED</b>	<b>17</b>	<i>By October, make appointment with advisor to discuss your schedule for next semester</i>

<b>SEMESTER 2</b>	<b>CR</b>	<b>SEMESTER 2 NOTES</b>
FYW 100 First Year Writing <b>OR</b> FYS 100 First Year Seminar	<b>4</b>	FYW Directed Self Placement exam
BIOL 112 Introductory Biology II Lecture and Lab.	<b>4</b>	Complete BIOL 112 sequence with a C or better
CHEM 104 General Chemistry II Lecture and Lab (Sp, Sum)	<b>4</b>	
General Education Course (any still needed)	<b>3-4</b>	
<b>Requirements and GPA</b>		<i>Aim for minimum of 32 earned credits Minimum of 2.0 GPA overall and in the major</i>
<b># CREDITS EARNED</b>	<b>15-16</b>	<i>By March, make appointment with advisor to discuss your schedule for next semester</i>

<b>SEMESTER 3</b>	<b>CR</b>	<b>SEMESTER 3 NOTES</b>
BIOL 314 Genetics Lecture and Lab (F)	<b>4</b>	Prereqs = BIOL 111 and 112 (C or better in both)
CHEM 205W Organic Chemistry I Lecture and Lab (F, Sum)	<b>4</b>	Prereqs = CHEM 104 (C- or better)
General Education Course (any still needed)	<b>3-4</b>	
General Education Course (any still needed)	<b>3-4</b>	
<b>Requirements and GPA</b>		<i>Aim for minimum of 48 earned credits; minimum of 2.0 GPA overall and in the major</i>
<b># CREDITS EARNED</b>	<b>14-16</b>	<i>By October, make appointment with advisor to discuss your schedule for next semester and discuss possible minor. Also discuss opportunities for research and Independent study</i>

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<b>SEMESTER 4</b>	<b>CR</b>	<b>SEMESTER 4 NOTES</b>
BIOL 241 Biology Research Colloquium	<b>0.5</b>	Prereqs = BIOL 111 and BIOL 112
MATH 240 Statistical Methods <b>OR</b> BIOL 240 Biostatistics and Experimental Design	<b>4</b>	MATH 240 Prereq = Math Milestone BIOL 240 Prereq = C or better in BIOL 100, 108, or 112
BIOL 213W Plant and Animal Form and Function	<b>4</b>	Prereqs = C or better in BIOL 111 and 112
CHEM 206W Organic Chemistry II Lecture and Lab (Sp, Sum)	<b>4</b>	Prereq = CHEM 205W
General Education Course, elective, or course toward minor/major	<b>3-4</b>	
<b>Requirements and GPA</b>		<i>Aim for minimum of 64 earned credits; minimum of 2.0 GPA overall and in major</i>
<b># CREDITS EARNED</b>	<b>15.5</b> <b>-16.5</b>	<i>By March, make appointment with advisor to discuss your schedule for next semester</i> <i>Review opportunities for research and independent study with your advisor</i>

<b>SEMESTER 5</b>	<b>CR</b>	<b>SEMESTER 5 NOTES</b>
BIOL 318 Ecology (F)	<b>4</b>	Prereqs = C or better in BIOL 111 and 112; BIOL 213
PHYS 101 Physics for Science and Mathematics I (Lecture and Lab)	<b>4</b>	
BIO 300/400 Biology Elective <b>OR</b> First Independent Study (BIOL 49X)	<b>1-4</b>	Check specific prereqs for each course <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>
BIOL 241 Biology Research Colloquium	<b>0.5</b>	Prereqs = BIOL 111 and BIOL 112.
Gen Ed, elective, or course toward minor/major	<b>3-4</b>	
<b>Requirements and GPA</b>		<i>Aim for minimum of 80 earned credits; minimum of 2.0 GPA overall and in major</i>
<b># CREDITS EARNED</b>	<b>12.5</b> <b>-16.5</b>	<i>By October, make appointment with advisor to discuss your schedule for next semester.</i>

<b>SEMESTER 6</b>	<b>CR</b>	<b>SEMESTER 6 NOTES</b>
Connections (Gen Ed-C)	<b>4</b>	Prereqs = FYW and FYS
PHYS 102 Physics for Science and Mathematics II	<b>4</b>	Prereq = PHYS 101
BIOL 320 Cell and Molecular Biology Lecture and Lab (Sp)	<b>4</b>	Prereqs = C or better in BIOL 111 and 112; BIOL 314; CHEM 205
General Education Course, elective, or course toward minor/major	<b>3-4</b>	<i>If pursuing minor or 2nd major, be sure to register for this with the relevant department prior to audit</i>
<b>Requirements and GPA</b>		<i>Aim for minimum of 96 earned credits; minimum of 2.0 GPA overall and in the major. Apply for degree audit through MyRIC</i>
<b># CREDITS EARNED</b>	<b>15</b> <b>-16</b>	<i>By March, make appointment with advisor to discuss your schedule for next semester.</i>

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<b>SEMESTER 7</b>	<b>CR</b>	<b>SEMESTER 7 NOTES</b>
BIOL elective (300/400) with or without lab <b>OR</b> second Independent Study (BIOL 49X)	<b>3-4</b>	May use three or more credits in BIOL 491-494 Research in Biology
BIOL elective (300/400) with or without lab	<b>3-4</b>	Prereqs vary, see catalog
General Education Course, elective, or course toward minor/major	<b>3-4</b>	
General Education Course, elective, or course toward minor/major	<b>3-4</b>	
<b>Requirements and GPA</b>		<i>Aim for minimum of 108 earned credits; minimum of 2.0 GPA overall and in the major</i>
<b># CREDITS EARNED</b>	<b>12</b> <b>-16</b>	<i>By October, make appointment with advisor to discuss your schedule for next semester..</i>

<b>SEMESTER 8</b>	<b>CR</b>	<b>SEMESTER 8 NOTES</b>
BIOL elective (300/400) with or without lab <b>OR</b> second Independent Study (BIOL 49X)	<b>3-4</b>	May use three or more credits in BIOL 491-494 Research to satisfy one elective requirement
BIOL 460W Senior Seminar	<b>3</b>	Prereqs = 90 credit hours; C or better in BIOL 111 and 112; BIOL 314, 318, and 320 or consent of Chair
Elective or course toward minor/major	<b>3-4</b>	
Elective or course toward minor/major	<b>3-4</b>	
<b>Requirements and GPA</b>		<i>Need minimum of 120 earned credits; minimum of 2.0 GPA overall and in the major</i>
<b># CREDITS EARNED</b>	<b>12-15</b>	<i>Attend Gradfest and Commencement</i>

**NOTE:**

- 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

Approved by Department Chair: Dana Kolibachuk

Date: 11/18/2024

Approved by Undergraduate Curriculum Committee

Date: 11/7/2024

Revised: