

ACADEMIC RHODE MAP
BA CHEMISTRY MAJOR
 With Concentration in Environmental Chemistry



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
CHEM 103 General Chemistry I*		CHEM 416 Environmental Analytical Chemistry (F even)*	
CHEM 104 General Chemistry II*		CHEM 418 Marine Environmental Chemistry (Sp even)*	
CHEM 205 Organic Chemistry I (F, SuI)*		MATH 212 Calculus I*	
CHEM 206 Organic Chemistry II (Sp, SuII)*		MATH 213 Calculus II*	
CHEM 310 Biochemistry (F)*		PHYS 101 Physics for Science and Mathematics I*	
CHEM 403 Inorganic Chemistry I (F)*		PHYS 102 Physics for Science and Mathematics II*	
CHEM 405 Physical Chemistry I (F)* and CHEM 407 Physical Chemistry Laboratory I (F)*		PSCI 212 Introduction to Geology (F, Su)* OR PSCI 217 Introduction to Oceanography (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. 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

Approved by Department Chair: Peter Meyer Date 6/20/2016

Approved by Undergraduate Curriculum Committee: Date 6/21/2016

Revised: 6/1/2019

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SEMESTER 1	CR	SEMESTER 1 CHECKPOINTS ✓
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 http://www.ric.edu/firstyearwriting/Pages/default.aspx
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
Gen Ed Distribution course from one of these GE categories: Arts (A); Literature (L); History (H), or Social and Behavioral Sciences (SB).	4	<input type="checkbox"/> You may need to take MATH 209 here—see “NOTE” at end of the map
Gen Ed--Second Lang 101 (based on placement, a course higher than 101/102 may be taken). If language requirement 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.

SEMESTER 2	CR	SEMESTER 2 CHECKPOINTS ✓
FYW 100 or FYS 100	4	<input type="checkbox"/> Complete FYS and FYW, for FYW, grade C or better
MATH 212 Calculus I*	4	<input type="checkbox"/> Prereq MATH 209 or appropriate score on mathematics placement exam; satisfies Gen Ed Math (M)
CHEM 104 General Chemistry II (Sp, Su)* Lecture and Lab (Gen Ed ASQR)	4	<input type="checkbox"/> Prereq CHEM 103 with C- or better <input type="checkbox"/> Gen Ed- Advanced Quantitative/ Scientific Reasoning completed
Gen Ed--Second Lang 102* (if needed), or Gen Ed	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	16	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Feb.

SEMESTER 3	CR	SEMESTER 3 CHECKPOINTS ✓
CHEM 205 Organic Chemistry I*(F,Sul)	4	<input type="checkbox"/> Prereq CHEM 104 with C- or better
MATH 213 Calculus II*	4	<input type="checkbox"/> Prereq MATH 212
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
Gen Ed Distribution course from one 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	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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SEMESTER 4	CR	SEMESTER 4 CHECKPOINTS ✓
PHYS 102 Physics for Science and Mathematics II* (Lecture and Lab)	4	<input type="checkbox"/> Prereq. is PHYS 101
CHEM 206 Organic Chemistry II* (Sp, Sull) Lecture and Lab	4	<input type="checkbox"/> Prereq. is CHEM 205
Gen Ed., elective, or course toward minor	3-4	
Gen Ed., elective, or course toward minor	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	14-16	<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

SEMESTER 5	CR	SEMESTER 5 CHECKPOINTS ✓
CHEM 310 Biochemistry (F)*	4	<input type="checkbox"/> Prereq CHEM 206
CHEM 403 Inorganic Chemistry I (F)*	3	<input type="checkbox"/> Prereq. CHEM 206
PSCI 212 Introduction to Geology (F, Su)*, or elective	3-4	<input type="checkbox"/> PSCI 212 could also be taken in semester 7 <input type="checkbox"/> Only need PSCI 212 OR PSCI 217 <input type="checkbox"/> Prereq. completed mathematics competency or appropriate level on the math placement test
Gen Ed., elective, or course toward minor	3-4	
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	13-15	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Sept.

SEMESTER 6	CR	SEMESTER 6 CHECKPOINTS ✓
Choose 1 Connections course (Gen Ed-C)	4	<input type="checkbox"/> Prereqs are 45 completed credits and FYW and FYS.
PSCI 217 Introduction to Oceanography (Sp)* or elective	3-4	<input type="checkbox"/> PSCI 217 could also be taken in semester 8 <input type="checkbox"/> Only need PSCI 212 OR PSCI 217 <input type="checkbox"/> Prereq. completed mathematics competency or appropriate level on the math placement test
CHEM 418 Marine Environmental Chemistry (Sp)* or elective	3-4	<input type="checkbox"/> Prereq for CHEM 418 is CHEM 206. CHEM 418 could also be taken in semester 8
Gen Ed., elective, or course toward minor	3-4	<input type="checkbox"/> If pursuing minor 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	13-16	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Feb.

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SEMESTER 7	CR	SEMESTER 7 CHECKPOINTS ✓
416 Environmental Analytical Chemistry (F)*	4	<input type="checkbox"/> Prereqs CHEM 104
CHEM 405 Physical Chemistry I (F)*	3	<input type="checkbox"/> Prereqs. are CHEM 104, MATH 213 and PHYS 102
CHEM 407 Physical Chemistry Laboratory I (F)*	1	<input type="checkbox"/> Concurrent with CHEM 405
Elective, or course toward major	3-4	
Gen Ed., elective, or course toward minor	3-4	<input type="checkbox"/> If pursuing minor make sure you have registered for this with the relevant department prior to audit
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	14-16	<input type="checkbox"/> Make appointment with advisor to discuss your schedule for next semester in Sept.

SEMESTER 8	CR	SEMESTER 8 CHECKPOINTS ✓
Elective, or course toward major	3-4	<input type="checkbox"/> CHEM 418 completed
Elective, or course toward major	3-4	<input type="checkbox"/> PSCI 212 OR PSCI 217 completed
Elective, or course toward minor	3-4	
Elective, or course toward minor	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	12-16	Attend Gradfest and Commencement

For more information, check the Physical Sciences Department website:
<http://www.ric.edu/physicalSciences/Pages/default.aspx>

Note: MATH 209 Pre-Calculus Mathematics is a prerequisite for MATH 212, Mathematics Department can test to see if this can be waived or if you need to take this, in which case you should take it in your first semester in place of a Gen Ed. option

Note: Prior to enrolling in any Chemistry course students must have completed the college mathematics competency.

The total credit count for the major is 55 credits, and 40 credits for General Education. However, 12 Gen Ed. credits for M, NS and AQSR will double-count, making the total 83 credits leaving room for 37 credits that may need to include two secondary language courses and RIC 100, but could go toward a second major, a minor or electives.