

ACADEMIC RHODEMAP

BA CHEMISTRY SECONDARY EDUCATION MAJOR



RHODE ISLAND COLLEGE

GENERAL EDUCATION: A complete listing of General Education courses can be found at the Office of Academic Support and Information Services (OASIS) 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, 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.

ACADEMIC MAJOR CHECKLIST	COURSE	MORE MAJOR AND EDUCATION COURSES	COURSE
BIOL 111 Introductory Biology*		Choose ONE from CHEM 406 Physical Chemistry II (Sp)*; CHEM 412/413 Inorganic Chemistry II w/lab (Sp)*; CHEM 414 Instrumental Methods of Analysis*; CHEM 420 Intermediate Biochemistry*; CHEM 422 Biochemistry Laboratory (Sp)*; CHEM 425 Advanced Organic Chemistry (F)*; or CHEM 435 Pharmacology and Toxicology*	
MATH 212 Calculus I*			
MATH 213 Calculus II*			
CHEM 103 General Chemistry I*			
CHEM 104 General Chemistry II*		PSCI Introduction to Geology (F, Su)	
CHEM 205 Organic Chemistry I (F, Su)*		PSCI 357 Historical & Contemporary Contexts of Science*	
CHEM 206 Organic Chemistry II (Sp, Su)*		CEP 315 Educational Psychology*	
CHEM 310 Biochemistry I (F even)*		FNED 346 Schooling in a Democratic Society*	
CHEM 403 Inorganic Chemistry (F)*		SED 406 Instructional Methods, Design, and Tech. (F)*	
CHEM 404 Analytical Chemistry (Sp even)*		SED 407 Instructional Methods, Design, and Literacy (Sp)*	
CHEM 405 Physical Chemistry I (F)*		SED 411 Content and Pedagogy in Secondary Ed. (F)*	
CHEM 407 Physical Chemistry Lab I (F)*		SED 412 Field Practicum (F)*	
CHEM 491 Research in Chemistry*		SED 421 and SED 422 Student Teaching*	
PHYS 200 Mechanics (F)*		SPED 433 Adaptation of Instruction for Inclusive Ed.*	
PHYS 201 Electricity and Magnetism (Sp)*			

NOTE: Will also need BIOL 112 Introductory Biology 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 RhodeMap 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
- 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 Chemistry 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 2.75 in your Chemistry major.
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Approved by Department Chair: Robert Cvornyek Date 5/11/2016

Approved by Undergraduate Curriculum Committee: Date 5/30/2016

Revised: 7/17/2017

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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 www.ric.edu/firstyearwriting
BIOL 111 Introductory 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; minimum 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	16	<input type="checkbox"/> Make appointment in Sept. with Chemistry advisor to discuss your schedule for next semester

SEMESTER 2	CR	SEMESTER 2 CHECKPOINTS ✓
FYW 100 or FYS 100	4	<input type="checkbox"/> Complete FYS and FYW, for FYW, grade B or better
BIOL 112 General Biology II*	4	<input type="checkbox"/> BIOL 111 with minimum of C- is prereq for BIOL 112
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 Chemistry and Secondary Education advisors in Feb. to discuss your schedule for next semester

SEMESTER 3	CR	SEMESTER 3 CHECKPOINTS ✓
MATH 212 Calculus I*	4	<input type="checkbox"/> Prereqs MATH 209; minimum grade of C <input type="checkbox"/> Satisfies Gen Ed Mathematics (M)
CHEM 205 Organic Chemistry I (F, Su)*	4	<input type="checkbox"/> CHEM 104 with a minimum of C-; minimum grade of C
FNED 346 Schooling in a Democratic Soc.*	4	<input type="checkbox"/> Prereq. FYW with minimum grade of B; minimum grade of B- in FNED 346.
Gen Ed Distribution course from Arts (A); History (H); Literature (L), or Social and Behavioral Sciences (SB)	4	
Requirements and GPA		<input type="checkbox"/> Core Academic Skills for Educators (ETS# 5751) <input type="checkbox"/> Minimum 2.75 overall GPA <input type="checkbox"/> Minimum GPA of 2.50 in Chemistry major
# CREDITS EARNED	16	<input type="checkbox"/> Make appointments with Chemistry and Secondary Education advisors in Sept. to discuss your schedule for next semester.

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SEMESTER 4	CR	SEMESTER 4 CHECKPOINTS ✓
MATH 213 Calculus II*	4	<input type="checkbox"/> Prereqs MATH 212; minimum grade of C <input type="checkbox"/> Satisfies Gen Ed AQSR
CHEM 206 Organic Chemistry II (Sp, Su)*	4	<input type="checkbox"/> Prereq. CHEM 205; minimum grade of C
CHEM 404 Analytical Chemistry (Sp even)* or OR PSCI 357 Historical & Contemporary Contexts of Science* (Sp odd)	3-4	<input type="checkbox"/> Prereqs. CHEM 104, PHYS 102 or 201, or consent; minimum grade of C <input type="checkbox"/> Prereq. for PSCI 357 is any Gen Ed NS; minimum grade of C
Gen Ed Distribution (if needed), or elective	3-4	
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"/> Apply to Feinstein School of Education (FSEHD) <input type="checkbox"/> Minimum of 2.75 GPA overall; minimum of B- in Education courses <input type="checkbox"/> Minimum GPA of 2.50 in Chemistry major
# CREDITS EARNED	15-16 +4 (Su)	<input type="checkbox"/> Make appointment in Feb. with both advisors to discuss your schedule for next semester

SEMESTER 5	CR	SEMESTER 5 CHECKPOINTS ✓
CHEM 403 Inorganic Chemistry (F)*	3	<input type="checkbox"/> Prereqs prior or concurrent CHEM 405, or consent; minimum grade of C
PHYS 200 Mechanics I (F)*	4	<input type="checkbox"/> Prereq. MATH 212; minimum grade of C
PSCI 212 Introduction to Geology (F, Su) or CHEM 310 Biochemistry (F even)	4	<input type="checkbox"/> Minimum grade of C <input type="checkbox"/> Prereq. for CHEM 310 is CHEM 206; 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"/> Praxis II Principles of Learning and Teaching Exam (ETS# 5624 – Passing Score: 157) <input type="checkbox"/> Meet with research advisor <input type="checkbox"/> Minimum of 2.75 GPA overall; minimum of B- in Education courses <input type="checkbox"/> Minimum GPA of 2.50 in Chemistry major
# CREDITS EARNED	18	<input type="checkbox"/> Make appointment in Sept. with both advisors to discuss your schedule for next semester

SEMESTER 6	CR	SEMESTER 6 CHECKPOINTS ✓
CHEM 404 Analytical Chemistry (Sp even)* or OR PSCI 357 Historical & Contemporary Contexts of Science* (Sp odd)	4	<input type="checkbox"/> Prereqs. are CHEM 104, PHYS 102 or 201, or consent; minimum grade of C; both CHEM 404 and PSCI 357 completed <input type="checkbox"/> Prereq. for PSCI 357 is any Gen Ed NS; minimum grade of C
CHEM 491 Research in Chemistry*	1	<input type="checkbox"/> Prereq is consent of Dept. chair
PHYS 201 Electricity and Magnetism (Sp)*	4	<input type="checkbox"/> Prereqs. are PHYS 200 and MATH 213; minimum grade of C
SPED 433 Adaptation of Instruction for Inclusive Ed.*	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; minimum of B- in Education courses <input type="checkbox"/> Minimum GPA of 2.50 in Chemistry major <input type="checkbox"/> Attend Office of Partnerships and Placements orientation for student teachers; apply for student teaching <input type="checkbox"/> Praxis II Chemistry Content Knowledge Exam (ETS# 5245 – Passing Score: 156) <input type="checkbox"/> Apply for degree audit online through MyRIC
# CREDITS EARNED	17-18	<input type="checkbox"/> Make appointment in Feb. with both advisors to discuss your schedule for next semester

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SEMESTER 7	CR	SEMESTER 7 CHECKPOINTS ✓
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-
CHEM 405 Physical Chemistry I	3	<input type="checkbox"/> Prereqs CHEM 104, MATH 213 and PHYS 201; minimum grade of C
CHEM 407 Physical Chemistry I Lab	1	<input type="checkbox"/> Prereq. concurrent with CHEM 405; minimum grade of C
CHEM 310 Biochemistry (F even), or PSCI 212 Introduction to Geology (F, Su)	3	<input type="checkbox"/> Prereq. CHEM 206; minimum grade of C <input type="checkbox"/> Minimum grade of C; both CHEM 310 and PSCI 212 completed
Chemistry elective	3-4	<input type="checkbox"/> Prereqs vary—see catalog
Requirements and GPA		<input type="checkbox"/> Minimum of 2.75 GPA overall; minimum of B- in Education courses <input type="checkbox"/> Minimum GPA of 2.50 in Chemistry major
# CREDITS EARNED	16-17	<input type="checkbox"/> Make appointment in Sept. with Education advisor to discuss your schedule for next semester

SEMESTER 8	CR	SEMESTER 8 CHECKPOINTS ✓
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 <input type="checkbox"/> Completion of all Chemistry content coursework <input type="checkbox"/> Minimum of 2.75 GPA overall <input type="checkbox"/> Minimum GPA of 2.50 in Chemistry major <input type="checkbox"/> 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: 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 as soon as possible in place of a Gen Ed. option

NOTE: The minimum total credit count for the SED/Chemistry major is 95 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 8 more depending on secondary language needs. The minimum credit count will be 123 credits (without secondary language).