

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. Courses with (WID) are Writing in the Discipline courses and will be writing intensive.

Academic Major Checklist	Course	Academic Major Checklist	Course	
CHEM 103 General Chemistry I* or CHEM		CHEM 414 Instrumental Methods of Analysis (Sp		
103H (F)*		odd)*		
CHEM 104 General Chemistry II* or CHEM		CHEM 491-493 Research in Chemistry*		
104H (Sp)*				
CHEM 205 Organic Chemistry I (F, SuI)*		Cognates:		
CHEM 206 Organic Chemistry II (Sp, Sull)*		MATH 212 Calculus I*		
CHEM 310 Biochemistry (F)*		MATH 213 Calculus II*		
CHEM 403 Inorganic Chemistry I (F)*		MATH 314 Calculus III *		
CHEM 404 Analytical Chemistry I (Sp) (even		PHYS 101 Physics for Science and Mathematics		
years)* or CHEM 416 Environmental Analytical		I*		
Chemistry (Sp)* (odd years)				
CHEM 405 Physical Chemistry I (F)* and CHEM		PHYS 102 Physics for Science and Mathematics		
407 Physical Chemistry Laboratory I (F)*		II*		
CHEM 406 Physical Chemistry II (Sp)* and CHEM				
408 Physical Chemistry Laboratory II (Sp)*				
Select ONE from CHEM 412 Inorganic Chemistry II and CHEM 413 Inorganic Chemistry Laboratory II (Sp)*;				
CHEM 418 Marine Environmental Chemistry (F even)*; or CHEM 425 Advanced Organic Chemistry (F odd)*				

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: Sarah Knowlton Date 6/22/2016 Approved by Undergraduate Curriculum Committee: Date 6/22/2016

Revised:



SEMESTER 1	CR	SEMESTER 1 CHECKPOINTS 🗸
First Year Writing (FYW 100) or First Year	4	□ FYW 100P is a 6 credit option. To decide which FYW to
Seminar (FYS 100).		take, see Directed Self-Placement test at
		http://www.ric.edu/firstyearwriting/Pages/default.aspx
RIC 100 Introduction to Rhode Island College	1	Exempt if taking COLL 101, COLL 150, or HONR 150
CHEM 103 General Chemistry I (F, Sul)*	4	Math competency or placement on Math exam MUST
satisfies Gen Ed Natural Science (NS) Lecture		be completed in order to take ALL science courses. If
and Lab. (or CHEM 103H Honors)		not, will need to take MATH 010 this semester
Gen Ed Distribution course from one of these GE	4	□ You may need to take MATH 209 here—see "NOTE" at
categories: Arts (A); Literature (L); History (H), or		end of the map
Social and Behavioral Sciences (SB).		
Gen EdSecond Lang 101 (based on placement,	4	Language placement test with Dept. of Modern
a course higher than 101/102 may be taken). If		Languages (optional)
language requirement already satisfied: Any Gen		Complete Second Lang 101 (if needed)
Ed Distribution course.		
		Aim for 16 at least earned credits (While 12 is fulltime, 16
		credits are preferred to stay on track to graduate in 4 years)
Requirements and GPA		□ Minimum 2.0 GPA
# CREDITS EARNED	17	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	□ Complete FYS and FYW, for FYW, grade C or better
MATH 212 Calculus I*	4	Prereq MATH 209 or appropriate score on mathematics
		placement exam; satisfies Gen Ed Math (M)
CHEM 104 General Chemistry II (Sp, Su)* Lecture and	4	□ Prereq. CHEM 103 with C- or better; Gen Ed- Advanced
Lab (Gen Ed ASQR) (or CHEM 104H Honors)		Quantitative/ Scientific Reasoning completed
Gen EdSecond Lang 102* (if needed), or Gen Ed	4	□ Complete Second Language 102* (if needed)
		Aim for minimum of 32 earned credits
Requirements and GPA		□ Minimum 2.0 GPA
# CREDITS EARNED	16	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	Prereq CHEM 104 with C- or better
MATH 213 Calculus II*	4	Prereq MATH 212
PHYS 101 Physics for Science and Mathematics	4	Prereq. MATH 120 or appropriate score on
*		mathematics placement exam
Gen Ed Distribution course from one of these	4	
GE categories: Arts (A); Literature (L); History		
(H), or Social and Behavioral Sciences (SB).		
		Aim for minimum of 48 earned credits,
Requirements and GPA		Minimum of 2.0 GPA overall and in major
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule
		for next semester in Sept.



SEMESTER 4	CR	SEMESTER 4 CHECKPOINTS 🖌
PHYS 102 Physics for Science and Mathematics II*	4	Prereq. is PHYS 101
CHEM 206 Organic Chemistry II* (Sp, Sull)	4	Prereq CHEM 205
Lecture and Lab		
MATH 314 Calculus III*	4	Prereq. MATH 213
Gen Ed., or elective	3-4	
		Aim for minimum of 64 earned credits
Requirements and GPA		Minimum of 2.0 GPA overall and in major
# CREDITS EARNED	15-16	Make appointment with advisor to discuss your
		schedule for next semester in Feb.
		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	Prereq CHEM 206
CHEM 403 Inorganic Chemistry I (F)*	3	Prereq. CHEM 206
CHEM 400-level elective, or other elective	3-4	Prereqs. vary—see catalog
CHEM 491-493 Research in Chemistry*	1	Prereq. consent of Dept. chair
CHEM 400 Elective* or other elective	3-4	Prereqs. vary—see catalog
		Aim for minimum of 80 earned credits
Requirements and GPA		Minimum of 2.0 GPA overall and in major
# CREDITS EARNED	14-16	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	Prereqs are 45 completed credits and FYW and FYS.
CHEM 404 Analytical Chemistry I (Sp even	4	Prereqs. for CHEM 404 and CHEM 416 are CHEM 104;
years)* or CHEM 416 Environmental Analytical		need CHEM 404 OR CHEM 416.
Chemistry (Sp odd years)		
CHEM 414 Instrumental Methods of Analysis (Sp	3-4	Prereqs are CHEM 404 or CHEM 416, or consent of
odd)* or elective		Dept. chair
CHEM 491-493 Research in Chemistry*	1	Prereq. consent of Dept. chair
(recommended)		
Gen Ed., or elective	3-4	
		Aim for minimum of 96 earned credits
		Minimum of 2.0 GPA overall and in major
Requirements and GPA		Apply for degree audit online through MyRIC
# CREDITS EARNED	15-17	Make appointment with advisor to discuss your
		schedule for next semester in Feb.



SEMESTER 7	CR	SEMESTER 7 CHECKPOINTS 🖌
CHEM 405 Physical Chemistry I (F)*	3	Prereqs. are CHEM 104, MATH 213 and PHYS 102
CHEM 407 Physical Chemistry Laboratory I (F)*	1	Concurrent with CHEM 405
CHEM 400-level elective, or other elective	3-4	Prereqs. vary—see catalog
CHEM 491-493 Research in Chemistry*	1	Prereq. consent of Dept. chair
(recommended)		
Elective	3-4	
Elective	3-4	
		Aim for minimum of 108 earned credits
		Minimum of 2.0 GPA
		Minimum GPA of 2.0 in major
Requirements and GPA		All ten GE courses and second lang. req. completed
# CREDITS EARNED	14-17	Make appointment with advisor to discuss your
		schedule for next semester in Sept.

SEMESTER 8	CR	SEMESTER 8 CHECKPOINTS 🗸
CHEM 406 Physical Chemistry II (Sp)* and	3	Prereqs. CHEM 104, MATH 314, and PHYS 102
CHEM 408 Physical Chemistry Laboratory II (Sp)*	1	Concurrent with CHEM 406
CHEM 414 Instrumental Methods of Analysis (Sp	3-4	Prereqs for CHEM 414 are CHEM 405 and either
odd)* or elective		CHEM 404 or CHEM 416
		CHEM 414 completed
CHEM 400-level elective* or other elective	3-4	Prereqs. vary—see catalog
		□ CHEM 400-level elective completed
CHEM 491-493 Research in Chemistry*	1	Prereq. consent of Dept. chair
(recommended)		Completed 3 credits of Research in Chemistry
Elective	4	Completed CHEM 404 or CHEM 416
		Need 12 credits to be full time
		Need minimum of 120 earned credits
		□ Minimum of 2.0 GPA
Requirements and GPA		Minimum GPA of 2.0 in major
# CREDITS EARNED	15-17	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. Also note: MATH 314 Calculus III is a prerequisite for CHEM 406, and regarding PHYS 200, PHYS 201: in unusual circumstances, PHYS 101 and PHYS 102 may be substituted for PHYS 200 and PHYS 201, with consent of department chair. **Note: Prior to enrolling in any Chemistry course students must have completed the college mathematics competency.**

NOTE: The total credit count for the major is 65-66 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 93-94 credits, leaving room for 26-27 credits that may need to include two secondary language courses and RIC 100, but could go toward a minor or electives.