GENERAL EDUCATION: A complete listing of General Education courses can be found in the online catalog; 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, Portuguese, or Spanish. For other ways to satisfy the second language requirement look under the Gen Ed. section of the catalog. For information about Math Placement exam visit the orientation webpage. Any courses marked (F) offered Fall only; (Sp) Spring only. All courses marked with an asterisk* have prerequisites. Courses with a "W" in the prefix are Writing in the Discipline (WID) courses and will be writing intensive.

Academic Major Checklist	Course	Academic Major Checklist	Course		
CHEM 103 General Chemistry I* or CHEM 103H		CHEM 404W Analytical Chemistry I (Sp)* (WID)			
(F)*		or CHEM 416W Environmental Analytical			
		Chemistry (Sp)* (WID)			
CHEM 104 General Chemistry II* or CHEM		CHEM 405 Physical Chemistry I (F)* and CHEM			
104H (Sp)*		407 Physical Chemistry Laboratory I (F)*			
CHEM 205W Organic Chemistry I (F, Sul)*		MATH 212 Calculus I*			
(WID)					
CHEM 206W Organic Chemistry II (Sp, Sull)*		MATH 213 Calculus II*			
(WID)					
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*					
Select ONE from CHEM 406 Physical Chemistry II (Sp)*; CHEM 412 Inorganic Chemistry II and CHEM 413					
Inorganic Chemistry Laboratory II (Sp)*; CHEM 414 Instrumental Methods of Analysis (Sp)*; CHEM 418					
Marine Environmental Chemistry (F)*; CHEM 419 Biochemistry Mechanisms (Sp); CHEM 422 Biochemistry					
Lab (Sp); CHEM 425 Advanced Organic Chemistry (F)*; CHEM 435 Pharmacology and Toxicology*					

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 you will need to take in a special order, there is some flexibility in this 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 Milestone (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. Writing in the Discipline requirement is satisfied through major courses
- 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).

Revised: 6/1/2023

- 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

SEMESTER 1	CR	SEMESTER 1 CHECKPOINTS
First Year Writing (FYW 100) or First Year	4	FYW 100P is a 6-credit option. There is a Directed Self-Placement
Seminar (FYS 100).		questionnaire you can take to aid in this decision; check the RIC First
		Year Writing website.
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 Milestone or appropriate score on Math Placement
satisfies Gen Ed Natural Science (NS) Lecture		Exam MUST be completed in order to take ALL science
and Lab. (or CHEM 103H Honors)		courses for this program. If 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 end
categories: Arts (A); Literature (L); History (H), or		of the map
Social and Behavioral Sciences (SB).		
Gen EdSecond Lang 101 (based on placement,	4	Language placement test with Dept. of Modern Languages
courses higher than 101/102 may be taken). If lang.		(optional). Complete Second Lang 101 (if needed)
req. already satisfied: Any Gen Ed Distribution course.		
		Aim for at least 16 earned credits (While 12 is fulltime, 16
		credits are preferred to stay on track to graduate in 4 years), with
Requirements and GPA		minimum 2.0 GPA overall and in the major
# 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)*	4	Prereq. CHEM 103 with C- or better
Lecture and Lab (Gen Ed ASQR) (or CHEM 104H		Gen Ed- Advanced Quantitative/ Scientific Reasoning completed
Honors)		
Gen EdSecond Lang 102* (if needed), or Gen Ed	4	Complete Second Language 102* (if needed)
		Aim for minimum of 32 earned credits, with minimum 2.0
Requirements and GPA		GPA overall and in the major
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule
		for next semester in Feb.

SEMESTER 3	CR	SEMESTER 3 CHECKPOINTS
CHEM 205W Organic Chemistry I*(F,SuI) (WID)	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
I* (Lecture and Lab)		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, with minimum of
Requirements and GPA		2.0 GPA overall and in major
# CREDITS EARNED	16	Make appointment with advisor to discuss your schedule for
		next semester and discuss possible minor in Sept. Also discuss
		opportunities for research and Independent study

SEMESTER 4	CR	SEMESTER 4 CHECKPOINTS
PHYS 102 Physics for Science and Mathematics	4	Prereq. is PHYS 101
II* (Lecture and Lab)		
CHEM 206W Organic Chemistry II* (Sp, Sull)	4	Prereq. is CHEM 205 or CHEM 205W
Lecture and Lab (WID)		
Gen Ed., elective, or course toward minor	3-4	
Gen Ed., elective, or course toward minor	3-4	
		Aim for minimum of 64 earned credits, with minimum of
Requirements and GPA		2.0 GPA overall and in major
# CREDITS EARNED	14-16	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 or CHEM 206W
CHEM 403 Inorganic Chemistry I (F)*	3	Prereq. CHEM 405 or consent of Dept. chair
CHEM 418 Marine Environmental Chemistry	3-4	Prereq. CHEM 206 or CHEM 206W.
(F)* if needed, or elective, or course toward		
minor		
Gen Ed., elective, or course toward minor	3-4	
		Aim for minimum of 80 earned credits, with minimum of
Requirements and GPA		2.0 GPA overall and in major
# CREDITS EARNED	13-15	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 404W Analytical Chemistry I (Sp)* (WID)	3-4	Prereq. for either is CHEM 104. Either of these could also be
or CHEM 416W Environmental Analytical		taken in semester 8, and could take a CHEM 400 elective
Chemistry (Sp)* (WID)		here, if needed. Only need CHEM 404W OR CHEM 416W
Gen Ed., elective, or course toward minor	3-4	
Gen Ed., elective, or course toward minor	3-4	If pursuing minor make sure you have registered for this
		with the relevant department prior to audit
		All ten GE courses and second lang. req. completed. Aim for
		minimum of 96 earned credits, with minimum of 2.0 GPA
		overall and in major. Apply for degree audit online through
Requirements and GPA		MyRIC
# CREDITS EARNED	13-16	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 407W Physical Chemistry Laboratory I	1	Concurrent with CHEM 405
(F)* (WID)		
CHEM 400 Elective* (if needed)	3-4	Prereqs. vary—see catalog
Gen Ed., elective, or course toward minor	3-4	Prereqs. vary—see catalog
Elective, or course toward minor	3-4	Need 12 credits to be full time
		Aim for minimum of 108 earned credits, with minimum of
		2.0 GPA overall and in the major. All ten GE courses and
Requirements and GPA		second lang. req. completed
# CREDITS EARNED	13-16	Make appointment with advisor to discuss your schedule
		for next semester in Sept.

SEMESTER 8	CR	SEMESTER 8 CHECKPOINTS
CHEM 400 Elective* or other elective, or minor	4	Prereqs. vary—see catalog. CHEM 400-level elective completed
Elective, or course toward major	3-4	Completed CHEM 404W OR CHEM 416W
Elective, or course toward minor	3-4	
Elective, or course toward minor	3-4	
		Need minimum of 120 earned credits, with minimum of 2.0
Requirements and GPA		GPA overall and in the major
# CREDITS EARNED	13-16	Attend Gradfest and Commencement

For more information, check the Physical Sciences Department website:

https://www.ric.edu/department-directory/department-physical-sciences

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: MATH 314 Calculus III is a prerequisite for CHEM 406.

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

NOTE: The total credit count for the major is 50-51 credits (depending on choices), and 40 credits for Gen. Ed., with possibly 9 more depending on secondary language needs and RIC 100. However, 12 Gen Ed. credits for M, NS and AQSR will double-count, making the total 78-79 credits, leaving room for 42-43 credits that may need to include two secondary language courses and RIC 100, but could go toward a minor or electives.