

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. For info. about 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 422 Biochemistry Laboratory (Sp)*		
103H (F)*				
CHEM 104 General Chemistry II* or CHEM		CHEM 491-493 Research in Chemistry*		
104H (Sp)*				
CHEM 205 Organic Chemistry I (F, Sul)*		Cognates:		
CHEM 206 Organic Chemistry II (Sp, Sull)*		BIOL 111 Introductory Biology I*		
CHEM 310 Biochemistry (F)* (even yrs)		BIOL 112 Introductory Biology II*		
CHEM 403 Inorganic Chemistry I (F)*		MATH 212 Calculus I*		
CHEM 404 Analytic Chemistry I (Sp)* (even years)		MATH 213 Calculus II*		
or CHEM 416 Environmental Analytical Chemistry				
(Sp)* (odd years)				
CHEM 405 Physical Chemistry I (F)* and CHEM		PHYS 101 Physics for Science and Mathematics I*		
407 Physical Chemistry Laboratory I (F)*				
CHEM 419 Biochemistry Mechanisms* (Sp)		PHYS 102 Physics for Science and Mathematics II*		
Select ONE from CHEM 406 Physical Chemistry II (Sp)* and CHEM 408 Physical Chemistry Laboratory 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)*; or CHEM 425				
Advanced Organic Chemistry (F)*				

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



CENACCTED 4	CR	CENA	IFSTED 4 CHECKDOINTS /
SEMESTER 1	CR		ESTER 1 CHECKPOINTS ✓
First Year Writing (FYW 100) or First Year	4		YW 100P is a 6 credit option. To decide which FYW to
Seminar (FYS 100).			ake, see Directed Self-Placement test at
			ttp://www.ric.edu/firstyearwriting/Pages/default.aspx
RIC 100 Introduction to Rhode Island College	1		xempt if taking COLL 101, COLL 150, or HONR 150
CHEM 103 General Chemistry I (F, Sul)*	4		Nath competency or placement on Math exam MUST
satisfies Gen Ed Natural Science (NS) Lecture			e completed in order to take ALL science courses. If
and Lab. (or CHEM 103H Honors)			ot, will need to take MATH 010 this semester
Gen Ed Distribution course from one of these GE	4		ou may need to take MATH 209 here—see "NOTE" at
categories: Arts (A); Literature (L); History (H), or		er	nd of the map
Social and Behavioral Sciences (SB).			The Development of the Developme
Gen EdSecond Lang 101 (based on placement,	4		anguage placement test with Dept. of Modern
a course higher than 101/102 may be taken). If			anguages (optional)
language requirement already satisfied: Any Gen		□ с	omplete Second Lang 101 (if needed)
Ed Distribution course.			
		□ A	im for at least 16 earned credits (While 12 is fulltime, 16
		cr	redits are preferred to stay on track to graduate in 4 years)
Requirements and GPA			1inimum 2.0 GPA
# CREDITS EARNED	17		lake appointment with advisor to discuss your
		SC	chedule for next semester in Sept.
SEMESTER 2	CR	SEM	ESTER 2 CHECKPOINTS ✓
FYW 100 or FYS 100	4	□ C	omplete FYS and FYW, for FYW, grade C or better
MATH 212 Calculus I*	4	□ P	rereq MATH 209 or appropriate score on mathematics
		р	lacement exam; satisfies Gen Ed Math (M)
CHEM 104 General Chemistry II (Sp, Su)*	4	□ P	rereq. CHEM 103 with C- or better
Lecture and Lab (Gen Ed ASQR) (or CHEM 104H		□ G	en Ed- Advanced Quantitative/ Scientific Reasoning
Honors)		C	ompleted
Gen EdSecond Lang 102* (if needed), or Gen Ed	4		omplete Second Language 102* (if needed)
		□ A	im for minimum of 32 earned credits
Requirements and GPA			1inimum 2.0 GPA
# CREDITS EARNED	16		lake appointment with advisor to discuss your
		SC	chedule for next semester in Feb.
SEMESTER 3	CR	SEM	ESTER 3 CHECKPOINTS ✓
CHEM 205 Organic Chemistry I*(F,SuI)	4	□ P	rereq CHEM 104 with C- or better
MATH 213 Calculus II*	4	□Р	rereq MATH 212
BIOL 111 Introductory Biology*	4	☐ Pi	rereq. completed Math competency
Gen Ed Distribution course from one of these	4		
GE categories: Arts (A); Literature (L); History			
(H), or Social and Behavioral Sciences (SB).			
(11)) 61 366161 4114 26114113141 361611363 (32).		ПА	im for minimum of 48 earned credits,
Requirements and GPA			Ninimum of 2.0 GPA overall and in major
# CREDITS EARNED	16		Take appointment with advisor to discuss your schedule
# CILEDITS LAINNED	10	iv	nake appointment with advisor to discuss your scriedule



☐ Make appointment with advisor to discuss your

schedule for next semester in Feb.

SEMESTER 4	CR	SEM	ESTER 4 CHECKPOINTS ✓
CHEM 206 Organic Chemistry II* (Sp, Sull) Lecture and Lab	4	☐ Pr	rereq CHEM 205
BIOL 112 Introductory Biology II*	4	☐ Pr	ereq BIOL 111 with C- or better
Gen Ed Distribution course from one of these GE categories: Arts (A); Literature (L); History (H), or Social and Behavioral Sciences (SB).	4		
Gen Ed., or elective	3-4		
		☐ Ai	m for minimum of 64 earned credits
Requirements and GPA		□ м	inimum of 2.0 GPA overall and in major
# CREDITS EARNED	15-16	ΠМ	ake appointment with advisor to discuss your
		SC	hedule for next semester in Feb.
		☐ Di	scuss opportunities for research and Independent study
		wi	ith your advisor if you have not already done so.
SEMESTER 5	CR	SEM	ESTER 5 CHECKPOINTS ✓
CHEM 310 Biochemistry (F)*	4	☐ Pr	ereq CHEM 206
CHEM 403 Inorganic Chemistry I (F)*, or other	3-4	☐ Pr	ereq for CHEM 403 is CHEM 206
elective		□ м	ay also take CHEM 403 in Semester 7
CHEM 491-493 Research in Chemistry*	1	☐ Pr	ereq. consent of Dept. chair
PHYS 101 Physics for Science and Mathematics I*	4		ereq. MATH 120 or appropriate score on
(lecture and lab)		m	athematics placement exam
Gen Ed., or elective	3-4		
			m for minimum of 80 earned credits
Requirements and GPA		ПМ	linimum of 2.0 GPA overall and in major
# CREDITS EARNED	15-17	□ м	ake appointment with advisor to discuss your
		SC	hedule for next semester in Sept.
SEMESTER 6	CR	SEM	ESTER 6 CHECKPOINTS ✓
Choose 1 Connections course (Gen Ed-C)	4		eregs are 45 completed credits and FYW and FYS.
CHEM 404 Analytical Chemistry I (Sp even	3-4		ereg. for CHEM 404 or CHEM 416 is CHEM 104; need
years)* or CHEM 416 Environmental Analytical			HEM 404 OR CHEM 416.
Chemistry (Sp odd years)*			ould also take one of these in semester 8 if preferred.
CHEM 422 Biochemistry Laboratory (Sp)*	3		ereg. CHEM 310 or consent; may also take CHEM 422
CITEIN 422 Blochemistry Edboratory (59)	,		semester 8
CHEM 491-493 Research in Chemistry*	1	☐ Pr	rereq. Consent of Dept. chair
(recommended)			
PHYS 102 Physics for Science and Mathematics II*	4		ereq. is PHYS 101
			I ten GE courses and second lang. req. completed
		☐ Ai	m for minimum of 96 earned credits
		□ м	linimum of 2.0 GPA overall and in major
Requirements and GPA		☐ Ap	oply for degree audit online through MyRIC

CREDITS EARNED

15-16



SEMESTER 7	CR	SEMESTER 7 CHECKPOINTS ✓
CHEM 403 Inorganic Chemistry I (F)* or 400	3	☐ Prereq. CHEM 206; may also take CHEM 403 in
level elective		Semester 5
CHEM 405 Physical Chemistry I (F)*	3	☐ Preregs. are CHEM 104, MATH 213 and PHYS 102
CHEM 407 Physical Chemistry Laboratory I (F)*	1	☐ Concurrent with CHEM 405
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	14-16	☐ Make appointment with advisor to discuss your
		schedule for next semester in Sept.

SEMESTER 8	CR	SEMESTER 8 CHECKPOINTS ✓
CHEM 419 Biochemistry Mechanisms (Sp)*	3	□ Prereq. CHEM 310
CHEM 400 level elective* or other elective		☐ Prereqs. vary—see catalog
		☐ CHEM 400-level elective completed
CHEM 491-493 Research in Chemistry*	1	☐ Prereq. consent of Dept. chair
(recommended)		
Elective	3-4	☐ Completed CHEM 419
Elective	4	☐ Completed CHEM 404 or CHEM 416
		☐ Need minimum of 120 earned credits
		☐ Minimum of 2.0 GPA
Requirements and GPA		☐ Minimum GPA of 2.0 in major
# CREDITS EARNED	14-16	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: 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 competency.

NOTE: The total credit count for the major is 67-68 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 95-96 credits, leaving room for 25-26 credits that may need to include two secondary language courses and RIC 100, but could go toward a minor or electives.