**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.

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| Academic Major Checklist |  Course | Academic Major Checklist | Course |
| CHEM 103 General Chemistry I\* or CHEM 103H (F)\* |  | CHEM 414 Instrumental Methods of Analysis (Sp odd)\* |  |
| CHEM 104 General Chemistry II\* or CHEM 104H (Sp)\* |  | CHEM 491-493 Research in Chemistry\* |  |
| CHEM 205 Organic Chemistry I (F, SuI)\* |  | Cognates: |  |
| CHEM 206 Organic Chemistry II (Sp, SuII)\* |  | 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 years)\* or CHEM 416 Environmental Analytical Chemistry (Sp)\* (odd years) |  | PHYS 101 Physics for Science and Mathematics I\* |  |
| CHEM 405 Physical Chemistry I (F)\* and CHEM 407 Physical Chemistry Laboratory I (F)\* |  | PHYS 102 Physics for Science and Mathematics 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 6/22/2016Approved by Undergraduate Curriculum Committee: Date 6/22/2016 Revised: |
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| ***SEMESTER 1*** | CR |  | ***SEMESTER 1 CHECKPOINTS *** |
| First Year Writing (FYW 100) or First Year Seminar (FYS 100).  |  4 |  | * 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 |  | * Exempt if taking COLL 101, COLL 150, or HONR 150
 |
| CHEM 103 General Chemistry I (F, SuI)\* satisfies Gen Ed Natural Science (NS) Lecture and Lab. (or CHEM 103H Honors) | 4 |  | * 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 |  | * 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 |  | * Language placement test with Dept. of Modern Languages (optional)
* Complete Second Lang 101 (if needed)
 |
| Requirements and GPA |  |  | * Aim for 16 at least earned credits (While 12 is fulltime, 16 credits are preferred to stay on track to graduate in 4 years)
* Minimum 2.0 GPA
 |
| # CREDITS EARNED | 17 |  | * Make appointment with advisor to discuss your schedule for next semester in Sept.
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| ***SEMESTER 2*** | CR |  | ***SEMESTER 2 CHECKPOINTS ***  |
| FYW 100 or FYS 100 |  4 | 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 Lab (Gen Ed ASQR) (or CHEM 104H Honors) | 4 |  | * Prereq. CHEM 103 with C- or better; Gen Ed- Advanced Quantitative/ Scientific Reasoning completed
 |
| Gen Ed--Second Lang 102\* (if needed), or Gen Ed | 4 |  | * Complete Second Language 102\* (if needed)
 |
| Requirements and GPA |  |  | * Aim for minimum of 32 earned credits
* Minimum 2.0 GPA
 |
| # CREDITS EARNED | 16 |  | * Make appointment with advisor to discuss your schedule for next semester in Feb.
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| ***SEMESTER 3*** | CR |  | ***SEMESTER 3 CHECKPOINTS *** |
| CHEM 205 Organic Chemistry I\*(F,SuI)  | 4 |  | * Prereq CHEM 104 with C- or better
 |
| MATH 213 Calculus II\* | 4 |  | * Prereq MATH 212
 |
| PHYS 101 Physics for Science and Mathematics I\* | 4 |  | * 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 |  |  | * Aim for minimum of 48 earned credits,
* 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.
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| ***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, SuII) Lecture and Lab | 4 |  | * Prereq CHEM 205
 |
| MATH 314 Calculus III\* | 4 |  | * Prereq. MATH 213
 |
| Gen Ed., or elective | 3-4 |  |  |
| Requirements and GPA |  |  | * Aim for minimum of 64 earned credits
* 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.
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| ***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
 |
| Requirements and GPA |  |  | * Aim for minimum of 80 earned credits
* 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.
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| ***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 years)\* or CHEM 416 Environmental Analytical Chemistry (Sp odd years) | 4 |  | * Prereqs. for CHEM 404 and CHEM 416 are CHEM 104; need CHEM 404 OR CHEM 416.
 |
| CHEM 414 Instrumental Methods of Analysis (Sp odd)\* or elective | 3-4 |  | * Prereqs are CHEM 404 or CHEM 416, or consent of Dept. chair
 |
| CHEM 491-493 Research in Chemistry\* (recommended) | 1 |  | * Prereq. consent of Dept. chair
 |
| Gen Ed., or elective | 3-4 |  |  |
| Requirements and GPA |  |  | * Aim for minimum of 96 earned credits
* Minimum of 2.0 GPA overall and in major
* Apply for degree audit online through MyRIC
 |
| # CREDITS EARNED | 15-17 |  | * Make appointment with advisor to discuss your schedule for next semester in Feb.
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| ***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\* (recommended) | 1 |  | * Prereq. consent of Dept. chair
 |
| Elective | 3-4 |  |  |
| Elective | 3-4 |  |  |
| Requirements and GPA |  |  | * Aim for minimum of 108 earned credits
* Minimum of 2.0 GPA
* Minimum GPA of 2.0 in major
* 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.
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| ***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 odd)\* or elective | 3-4 |  | * Prereqs for CHEM 414 are CHEM 405 and either 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\* (recommended) | 1 |  | * Prereq. consent of Dept. chair
* Completed 3 credits of Research in Chemistry
 |
| Elective  | 4 |  | * Completed CHEM 404 or CHEM 416
* Need 12 credits to be full time
 |
| Requirements and GPA |  |  | * Need minimum of 120 earned credits
* Minimum of 2.0 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.**