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| 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 only. All courses marked with an asterisk \* have a prerequisite. For information 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** | **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\* |  | | CHEM 205 Organic Chemistry I (F, Su)\* |  | PSCI Introduction to Geology (F, Su) |  | | CHEM 206 Organic Chemistry II (Sp, Su)\* |  | PSCI 357 Historical & Contemporary Contexts of Science\* |  | | CHEM 310 Biochemistry I (F even)\* |  | CEP 315 Educational Psychology\* |  | | CHEM 403 Inorganic Chemistry (F)\* |  | FNED 246 Schooling for Social Justice\* |  | | CHEM 404 Analytical Chemistry (Sp even)\* |  | SED 406 Instructional Methods, Design, and Tech. (F)\* |  | | CHEM 405 Physical Chemistry I (F)\* |  | SED 407 Instructional Methods, Design, and Literacy (Sp)\* |  | | CHEM 407 Physical Chemistry Lab I (F)\* |  | SED 411 Content and Pedagogy in Secondary Ed. (F)\* |  | | CHEM 491 Research in Chemistry\* |  | SED 412 Field Practicum (F)\* |  | | PHYS 101 Physics for Science and Mathematics I\* |  | SED 421 and SED 422 Student Teaching\* |  | | PHYS 102 Physics for Science and Mathematics II\* |  | SPED 433 Special Education: Best Practices and Applications\* |  |   **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 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). **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.   Approved by Department Chair: Robert Cvornyek Date 5/11/2016  Approved by Undergraduate Curriculum Committee: Date 5/30/2016 Revised: 6/1/2020 |
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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 [www.ric.edu/firstyearwriting](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 |
| BIOL 111 Introductory Biology I\* General Biology I | 4 |  | * Prereq. Math competency; minimum grade of C * Satisfied Gen Ed Natural Science (NS) |
| CHEM 103 General Chemistry I\* | 4 |  | * Prereq. Math competency/placement; min. 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 |  | * Language placement test with Dept. of Modern Languages (optional) * Complete Second Lang 101 (if needed) |
| Requirements and GPA |  |  | * Aim for 16 earned credits (While 12 is fulltime, 16 credits are preferred to stay on track to graduate in 4 years) * Math competency completed * Minimum 2.75 overall GPA; 2.50 in the Major |
| # CREDITS EARNED | 17 |  | * Make appointment in Sept. with **Chemistry advisor** to discuss your schedule for next semester |

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| ***SEMESTER 2*** | CR |  | ***SEMESTER 2 CHECKPOINTS *** |
| FYW 100 or FYS 100 | 4 |  | * Complete FYS and FYW, for FYW, grade B or better |
| BIOL 112 General Biology II\* | 4 |  | * BIOL 111 with minimum of C- is prereq for BIOL 112 |
| CHEM 104 General Chemistry II\* | 4 |  | * Prereq CHEM 103; minimum grade of C- |
| Gen Ed--Second Lang 102\* (if needed), or other needed Gen Ed course. | 4 |  | * Complete Second Lang 102\* (if needed) |
| SUMMER SESSION: Gen Ed distribution | (4) Su |  | * Strongly recommend to be able to complete in 4 years |
| Requirements and GPA |  |  | * Aim for minimum of 32 earned credits * Minimum 2.75 overall GPA; 2.50 in the Major |
| # CREDITS EARNED | 16+4 (Su) |  | * Make appointments with Chemistry and Secondary Education advisors in Feb. to discuss your schedule for next semester |

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| ***SEMESTER 3*** | CR |  | ***SEMESTER 3 CHECKPOINTS *** |
| MATH 212 Calculus I\* Cell & Molecular Biology | 4 |  | * Prereqs MATH 209; minimum grade of C * Satisfies Gen Ed Mathematics (M) |
| CHEM 205 Organic Chemistry I (F, Su)\* | 4 |  | * CHEM 104 with a minimum of C-; minimum grade of C |
| FNED 246 Schooling for Social Justice\* | 4 |  | * Prereq. FYW with minimum grade of B; minimum grade of B- in FNED 246. |
| Gen Ed Distribution course from Arts (A);History (H); Literature (L), or Social and Behavioral Sciences (SB) | 4 |  |  |
| Requirements and GPA |  |  | * Core Academic Skills for Educators (ETS# 5751) * Minimum 2.75 overall GPA * Minimum GPA of 2.50 in Chemistry major |
| # CREDITS EARNED | 16 |  | * 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 |  | * Prereqs MATH 212; minimum grade of C * Satisfies Gen Ed AQSR |
| CHEM 206 Organic Chemistry II (Sp, Su)\* | 4 |  | * 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 |  | * Prereqs. CHEM 104, PHYS 102, or consent; minimum grade of C * 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 |  | * Strongly recommend to be able to complete in 4 years |
| Requirements and GPA |  |  | * Apply to Feinstein School of Education (FSEHD) * Minimum of 2.75 GPA overall; minimum of B- in Education courses * Minimum GPA of 2.50 in Chemistry major |
| # CREDITS EARNED | 15-16  +4 (Su) |  | * Make appointment in Feb. with both advisors to discuss your schedule for next semester |

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| ***SEMESTER 5*** | CR |  | ***SEMESTER 5 CHECKPOINTS *** |
| CHEM 403 Inorganic Chemistry (F)\* | 3 |  | * Prereqs prior or concurrent CHEM 405, or consent; minimum grade of C |
| PHYS 101 Physics for Science and Mathematics I\* | 4 |  | * Prereq. MATH 120 or placement; minimum grade of C |
| PSCI 212 Introduction to Geology (F, Su) or CHEM 310 Biochemistry (F) | 4 |  | * Minimum grade of C * Prereq. for CHEM 310 is CHEM 206; minimum grade of C |
| CEP 315 Educational Psychology\* | 3 |  | * Prereq. Admission to FSEHD; minimum grade of B- |
| SED 406 Instructional Methods, Design, and Tech. (F)\* | 3 |  | * Prereq. Admission to FSEHD; minimum grade of B- |
| Requirements and GPA |  |  | * Praxis II Principles of Learning and Teaching Exam   (ETS# 5624 – Passing Score: 157)   * Meet with research advisor * Minimum of 2.75 GPA overall; minimum of B- in Education courses * Minimum GPA of 2.50 in Chemistry major |
| # CREDITS EARNED | 18 |  | * Make appointment in Sept. with both advisors to discuss your schedule for next semester |

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| ***SEMESTER 6*** | CR |  | ***SEMESTER 6 CHECKPOINTS *** |
| CHEM 404 Analytical Chemistry (Sp even)\* or OR PSCI 357 Historical & Contemporary Contexts of Science\* (Sp odd) | 4 |  | * Prereqs. are CHEM 104, PHYS 102, or consent; minimum grade of C; both CHEM 404 and PSCI 357 completed * Prereq. for PSCI 357 is any Gen Ed NS; minimum grade of C |
| CHEM 491 Research in Chemistry\* | 1 |  | * Prereq is consent of Dept. chair |
| PHYS 102 Physics for Science and Mathematics II\* | 4 |  | * Prereq. is PHYS 101; minimum grade of C |
| SPED 433 Special Education: Best Practices and Applications\* | 3 |  | * Prereq. SED 406; minimum grade of B- |
| SED 407 Instructional Methods, Design, and Literacy (Sp)\* | 3 |  | * Prereq. SED 406; minimum grade of B- |
| SUMMER SESSION: Gen Ed distribution, if needed | (4) Su |  | * Strongly recommend to be able to complete in 4 years |
| Requirements and GPA |  |  | * Minimum of 2.75 GPA overall; minimum of B- in Education courses * Minimum GPA of 2.50 in Chemistry major * Attend Office of Partnerships and Placements orientation for student teachers; apply for student teaching * Praxis II Chemistry Content Knowledge Exam (ETS# 5245 – Passing Score: 156) * Apply for degree audit online through MyRIC |
| # CREDITS EARNED | 17-18 |  | * 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 |  | * Prereq. SED 407, concurrent with SED 412, minimum grade of B- * Mini-Teacher Candidate Work Sample |
| SED 412 Field Practicum in Secondary Ed.(F)\* | 2 |  | * Prereq. SED 407, concurrent with SED 411, minimum grade of B- |
| CHEM 405 Physical Chemistry I | 3 |  | * Prereqs CHEM 104, MATH 213 and PHYS 102; minimum grade of C |
| CHEM 407 Physical Chemistry I Lab | 1 |  | * Prereq. concurrent with CHEM 405; minimum grade of C |
| CHEM 310 Biochemistry (F), or PSCI 212 Introduction to Geology (F, Su) | 3 |  | * Prereq.CHEM 206; minimum grade of C * Minimum grade of C; both CHEM 310 and PSCI 212 completed |
| Chemistry elective | 3-4 |  | * Prereqs vary—see catalog |
| Requirements and GPA |  |  | * Minimum of 2.75 GPA overall; minimum of B- in Education courses * Minimum GPA of 2.50 in Chemistry major |
| # CREDITS EARNED | 16-17 |  | * Make appointment in Sept. with Education advisor to discuss your schedule for next semester |

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| ***SEMESTER 8*** | CR |  | ***SEMESTER 8 CHECKPOINTS *** |
| SED 421 Student Teaching\* | 10 |  | * Satisfactory Recommendation |
| SED 422 Student Teaching Seminar\* | 2 |  | * Minimum grade of B- * Teacher Candidate Work Sample |
| Requirements and GPA |  |  | * Need minimum of 120 earned credits * Completion of all Chemistry content coursework * Minimum of 2.75 GPA overall * Minimum GPA of 2.50 in Chemistry major * 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 9 more depending on secondary language needs and RIC 100. The minimum credit count will be 123 credits (without secondary language or RIC 100).