**Chemistry-BS**
***General Chemistry***
120 Credits Total
55 Credits in Major

# THE UNIVERSITY OF RHODE ISLAND

FALL 2024-SPRING 2025

## ABOUT THE CHEMISTRY BS DEGREE:

The BS program in Chemistry emphasizes breadth of training in Chemistry and is highly recommended if students plan to seek an MS or PhD in Chemistry. The degree also is an excellent choice for those who plan to be employed in the chemical industry, or in related industries such as the pharmaceutical industry. The BS in Chemistry is accredited by the American Chemical Society.

## STEP 1:

### Major Requirements:

| Course | Semester | Credits | Grade |
|---|---|---|---|
| CHM 191 or CHM 101/102 | | 5 or 4 | |
| CHM 192 or CHM 112/114 | | 5 or 4 | |
| CHM 227 or 291 | | 3 | |
| CHM 212 | | 4 | |
| CHM 226/228 or CHM 292 | | 5 | |
| CHM 431 | | 3 | |
| CHM 335 | | 2 | |
| CHM 432 | | 3 | |
| CHM 412 | | 3 | |
| CHM 414 | | 2 | |
| CHM 401 | | 3 | |
| CHM 425 | | 2 | |
| CHM 427 | | 3 | |
| CHM 492 | | 1 | |
| CHM 402 | | 2 | |
| CHM 441 | | 3 | |
| Six credits of CHM 353 or any 500-level course with departmental approval. | | | |
| CHM ____ | | | |
| CHM ____ | | | |
| MTH 141 | | 4 | |
| MTH 142 | | 4 | |
| MTH 243 | | 3 | |
| MTH 244 | | 3 | |
| PHY 203/273 | | 4 | |
| PHY 204/274 | | 4 | |
| PHY 205/275 | | 4 | |

### Free elective credits

**(to meet the 120 credits required for graduation):**

| Course | Credits | Course | Credits |
|---|---|---|---|
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**It is strongly recommended that WRT 104 or 106 be taken in the freshman year.**

**CHM 425 and 427 should be taken in the junior year by students planning research or advanced course work in organic chemistry.**

**Students desiring the American Chemical Society option must take BCH 581, 582, and 6 credits in undergraduate research (CHM 353).**

**Please note: Both major and cumulative GPA must be 2.00 or higher in order to graduate.**

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**GENERAL EDUCATION GUIDELINES:** General education is 40 credits. Each of the twelve outcomes (A1-D1) must be met by at least 3 credits. A single course may meet more than one outcome, but cannot be double counted towards the 40 credit total. At least one course must be a Grand Challenge (G). No more than twelve credits can have the same course code (note- HPR courses may have more than 12 credits). General education courses may also be used to meet requirements of the major or minor when appropriate.

**STEP 2:**

| General Education Credit Count | | | | |
|---|---|---|---|---|
| At least 40 credits, no more than 12 credits with the same course code. | | | | |
| **Course** | **Cr.** | | **Course** | **Cr.** |
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| | | | Total Gen Ed credits | 40 |

**STEP 3:**

| General Education Outcome Audit | |
|---|---|
| | **Course** |
| **KNOWLEDGE** | |
| **A1.** STEM | |
| **A2.** Social & Behavioral Sciences | |
| **A3.** Humanities | |
| **A4.** Arts & Design | |
| **COMPETENCIES** | |
| **B1.** Write effectively | |
| **B2.** Communicate effectively | |
| **B3.** Mathematical, statistical, or computational strategies | |
| **B4.** Information literacy | |
| **RESPONSIBILITIES** | |
| **C1.** Civic knowledge & responsibilities | |
| **C2.** Global responsibilities | |
| **C3.** Diversity and Inclusion | |
| **INTEGRATE & APPLY** | |
| **D1.** Ability to synthesize | |
| **GRAND CHALLENGE** | |
| **G.** Check that at least one course of your 40 credits is an approved "G" course | |

**SEE OPPOSITE SIDE FOR PROGRAM REQUIREMENTS.**

**NOTE:** This worksheet sheet is a snapshot of your entire curriculum. You must work with your advisor each term to discuss requirements to keep you on course for timely progress to complete this major. Official requirements for graduation are listed in the University Catalog.

**Please note: Both major and cumulative GPA must be 2.00 or higher in order to graduate.**