# Chemistry

## Degrees Offered

- BA Chemistry
- BS Chemistry
- BS Chemistry (Intensive Major)
- BS/MS Chemistry

## Prerequisites for entering the major

- General Chemistry I and II
  - (CHEM 161 and 165 or CHEM 163 and 167)
  - (CHEM 134L and 136L)
- Integral Calculus
  - (MATH 115)
- Introductory Physics
  - 170 or higher
  - (PHYS 180, 200 or 260)

## Requirements for each degree

<table>
<thead>
<tr>
<th>Degree</th>
<th>Credits</th>
<th>Courses</th>
<th>Intensive + 4 grad courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA</td>
<td>10</td>
<td>11</td>
<td>Application by end of 5th term</td>
</tr>
<tr>
<td>BS</td>
<td>13</td>
<td>14</td>
<td>CHEM 490 during 5th/6th term</td>
</tr>
<tr>
<td>BS/MS</td>
<td>15</td>
<td>16</td>
<td>Research between Jr/Sr year</td>
</tr>
</tbody>
</table>

### BA Chemistry

- 2 Semesters Organic Chemistry (with Labs)
  - CHEM 174 or 220 and CHEM 175, 221, or 230. CHEM 222L and 223L
- Physical Chemistry
  - (CHEM 332 or 328)

### BS Chemistry

- 2 Physical Chemistry courses (with 1 Lab)
  - (CHEM 332, 333 and 330L)
- Inorganic Chemistry
  - CHEM 252

### BS Chemistry (Intensive Major)

- N/A
- 4 Advanced course credits
  - At least 2 lectures and 1 lab

### BS/MS Chemistry

- N/A
- 5 Advanced course credits
  - At least 2 lectures and 1 lab

## Senior Requirements

- Senior Seminar
  - CHEM 400
- 2 Semesters Research
  - CHEM 490 or CHEM 400 + advanced additional course
- 2 Semesters Research
  - CHEM 490
- 4 Semesters Research including 2 in CHEM 990

## Substitutions

- Up to 2 relevant advanced science courses in other departments for advanced chem courses
- N/A

## Published Summer 2018
Four Possible Paths Through the Major in Chemistry

Possible BA Sequence

**Fall**
- Year 1: CHEM 161, 134L, & MATH pre-req
- Year 2: CHEM 220, 222L, & PHYS pre-req
- Year 3: CHEM 332
- Year 4: CHEM 400 & 1 Elective

**Spring**
- Year 1: CHEM 165, 136L, & MATH pre-req
- Year 2: CHEM 221, 223L, & 252
- Year 3: CHEM 226L & 1 Elective
- Year 4: 1 Elective

Possible BS Sequence

**Fall**
- Year 1: CHEM 161, 134L, & MATH pre-req
- Year 2: CHEM 220, 222L, & PHYS pre-req
- Year 3: CHEM 332 & 330L
- Year 4: CHEM 490 & 2 Electives

**Spring**
- Year 1: CHEM 165, 136L, & MATH pre-req
- Year 2: CHEM 221, 223L, & 252
- Year 3: CHEM 333, 226L, & 1 Elective
- Year 4: CHEM 490 & 1 Elective

Possible BS/MS Sequence

**Fall**
- Year 1: CHEM 174, 222L, MATH & PHYS pre-req
- Year 2: CHEM 330L & 332
- Year 3: CHEM 490 & 2 Electives
- Year 4: CHEM 990 & 2 Electives

**Spring**
- Year 1: CHEM 175, 223L, MATH & PHYS pre-req
- Year 2: CHEM 333, 252, & 251L
- Year 3: CHEM 490 & 2 Electives
- Year 4: CHEM 990 & 2 Electives

Possible Intensive Sequence

**Fall**
- Year 1: CHEM 163, 134L, & MATH pre-req
- Year 2: CHEM 220, 222L, & PHYS pre-req
- Year 3: CHEM 332 & 330L
- Year 4: CHEM 490 & 2 Electives

**Spring**
- Year 1: CHEM 167, 136L, & MATH pre-req
- Year 2: CHEM 221, 223L, 252, & PHYS pre-req
- Year 3: CHEM 333, 226L, & 1 Elective
- Year 4: CHEM 490 & 1 Elective