# Chemistry Degrees Offered

<table>
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<tr>
<th>Degree</th>
<th>Prerequisites</th>
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<td>Calculus of Functions of One Variable II (MATH 115) (MATH 120 recommended but not required)</td>
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### Requirements for each degree

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### Prerequisites for entering the major

- General Chemistry I and II<br>(CHEM 161 and 165 or CHEM 163 and 167<br>CHEM 134L and 136L)
- Calculus of Functions of One Variable II (MATH 115)<br>(MATH 120 recommended but not required)
- Introductory Physics<br>(PHYS 170, 180, 200, or 260) (For BS/MS PHYS 200 or above required)

### Degrees Offered

- **BA Chemistry**
  - 10 credits<br>11 courses
  - 2 Semesters Organic Chemistry (with 2 Labs)<br>CHEM 174 or 220 and CHEM 175, 221, or 230. CHEM 222L and 223L
  - Physical Chemistry<br>(CHEM 332 or 328)
  - Inorganic Chemistry<br>CHEM 252
  - 4 Advanced electives At least 1 CHEM lecture and lab
  - Senior Seminar<br>CHEM 400
  - 2 Semesters Research<br>CHEM 490 or CHEM 400 + advanced additional course
  - Up to 2 relevant advanced science courses in other departments for advanced chem electives

- **BS Chemistry**
  - 13 credits<br>14 Courses
  - 2 Semesters Physical Chemistry (with 1 Lab)<br>(CHEM 332, 333 and 330L)
  - N/A
  - 4 Advanced electives At least 1 CHEM lecture and 1 lab
  - 2 Semesters Research<br>CHEM 490 or CHEM 400 + advanced additional course

- **BS Chemistry (Intensive Major)**
  - 15 credits<br>16 Courses
  - N/A
  - 5 Advanced electives At least 2 CHEM lectures and 1 lab
  - 2 Semesters Research<br>CHEM 490
  - N/A

- **BS/MS Chemistry**
  - Intensive + 4 grad courses
  - Application by end of 5th term
  - Physics courses must be 200/201 or 260/261
  - CHEM 490 in 5th and 6th terms
  - Research between Jr/Sr year
  - 4 Semesters Research comprising CHEM 490 in 5th and 6th terms and CHEM 990 in 7th and 8th terms

### Substitutions

- N/A
Four Possible Paths Through the Major in Chemistry

**Possible BA Sequence**

**Fall**
- CHEM 161, 134L, & MATH pre-req
- CHEM 220, 222L, & PHYS pre-req
- CHEM 332
- CHEM 400 & 1 Elective

**Spring**
- CHEM 165, 136L, & MATH pre-req
- CHEM 221, 223L, & 252
- Advanced Lab & 1 Elective
- 1 Elective

**Possible BS Sequence**

**Fall**
- CHEM 161, 134L, & MATH pre-req
- CHEM 220, 222L, & Phys pre-req
- CHEM 332 & 330L
- CHEM 490 & 2 Electives

**Spring**
- CHEM 165, 136L, & MATH pre-req
- CHEM 221 & 223L
- CHEM 333, 252, & Advanced Lab
- CHEM 490 & 1 Elective

**Possible BS Intensive Sequence**

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

**Spring**
- CHEM 167, 136L, & MATH pre-req
- CHEM 221, 223L, 252, & PHYS pre-req
- CHEM 333, Advanced Lab, & 1 Elective
- CHEM 490 & 1 Elective

**Possible BS/MS Sequence**

**Fall**
- CHEM 174, 222L, MATH & PHYS pre-req
- CHEM 330L & 332
- CHEM 490 & 2 Electives

**Spring**
- CHEM 175, 223L, MATH & PHYS pre-req
- CHEM 333, 252, & Advanced Lab
- CHEM 490 & 2 Electives
- CHEM 990 & 2 Electives