## CHEMISTRY Major

### Fall

<table>
<thead>
<tr>
<th>Dept &amp; Course #</th>
<th>WOT</th>
<th>Theme (E/F)</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>CHEM 125</td>
<td>NW</td>
<td>Truth (E)</td>
<td>4</td>
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<tr>
<td>INTG 100</td>
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<tr>
<td>LANG</td>
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<td>CHEM 201</td>
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<td>INTG 105</td>
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### Spring

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<tr>
<td>CHEM 250</td>
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<tr>
<td>XXXX XXX</td>
<td>CI</td>
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<td>CHEM 202</td>
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### CHEM Major Requirements:

### Foundational Courses:
- CHEM 125 (4): Intro Chem St/Prop
- CHEM 250 (4): Reactivity I
- CHEM 251 (4): Reactivity 2
- CHEM 255 (4): Macro Chem Analysis
- CHEM 315 (4): Advanced Reactivity

### Labs:
- CHEM 201 (0.1): Purif/Struct
- CHEM 202 (0.1): Purif/Chrom
- CHEM 203 (0.1): Synthesis
- CHEM 205 (0.1): Measurement
- CHEM 304 (1): Method D&V
- CHEM 306 (1): Advanced Lab

### Upper-level Courses:
- 12 credits of any 300 level In-depth course

### Integrations Curriculum:

#### Foundational Courses:
- College Success (INTG 105)
- Learning Foundations INTG 100 (LF)
- Culture & Social Difference: Identity (CI)
- Theological Explorations (TE)

#### Ways of Thinking:
- Abstract Structures (AS)
- Artistic Expression (AE)
- Human Experience (HE)
- Natural World (NW)
- Social World (SW)

#### Additional:
- Artistic Engagement (AR)
- Quantitative Reasoning (QR)
- Experiential Engagement (EX)
- Global Engagement (GL)**
- Benedictine (BN)**

**GL and BN waived for students entering AY2020 & AY2021

### Upper-Level Coursework

- Theological Integrations (TI)
- Cultural & Social Difference: Systems (CS)
- Learning Integrations – INTG 300 (LI)

### Global Language
- 111 Beginning I
- 112 Beginning II
- 211 Intermediate

### Themes (One theme, at least two depts)
- Thematic Encounter
- Thematic Encounter
- Thematic Focus

### General Requirements:
- 124 Total credits
- 40 upper division credits
- Cumulative GPA > 2.0
- Major GPA > 2.0

*Integrations notes on next page*

**ACS Concentration:**
- CHEM 349 (0, 1: Sp)
- CHEM XXX (0, Sp Sr Yr)
- CHEM 360 (2, Sp): Capstone

**Supporting Courses:**
- MATH 119 (4): Calc I
- PHYS 105 (4)
- PHYS 106 (4)

**Additional Chem:**
- CHEM 349 (0, 1: Sp)
- CHEM XXX (0, Sp Sr Yr)
- CHEM 360 (2, Sp): Capstone

*ACS Concentration:*
- MATH 120 (4)
- CHEM 330 (2)
- CHEM 306 (1)
- CHEM 318 (4, Sp), AS, Truth (E)

*Updated 09/23/2022*
In Depth Course Offerings (subject to change):

<table>
<thead>
<tr>
<th>CHEM</th>
<th>Course Name</th>
<th>Conc.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>347^</td>
<td>Chemical Biology</td>
<td>BCBM, CB</td>
<td>CHEM 251</td>
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<tr>
<td>322A</td>
<td>Forensics</td>
<td>CB</td>
<td>Pre-req: 250, Co-req: 255, 205</td>
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<tr>
<td>322B</td>
<td>Analysis of Food Products</td>
<td>IM, EN</td>
<td>CHEM 202, 250</td>
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<tr>
<td>353^</td>
<td>Xenobiotic Metabolism</td>
<td>CB, BCBM</td>
<td>CHEM 315</td>
</tr>
<tr>
<td>364</td>
<td>Medicinal Chemistry</td>
<td>CB</td>
<td>CHEM 315</td>
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^: Courses count as electives towards BCHM major