# B.S. in CHEMISTRY

## Concentration I: American Chemical Society Accredited Chemistry Program

## Typical Schedule (TENTATIVE - Expect changes, consult with your advisor)

### Freshman Fall (14-17 cr)
- Chem 131<sup>ap, pph</sup> (Gen Chem I) [3]
- Chem 135L<sup>pph</sup> (Special Gen Chem Lab I) [1]
- Math 235 <sup>pph</sup> (Calc I) [4]
- GenEd Cluster 1 [3]
- GenEd WRTC 103 or other GenEd [3-4]

<sup>ap</sup>If AP Chem = 3-5, Chem 131/132 [6]

### Freshman Spring (15-16 cr)
- Chem 132<sup>ap, pph</sup> (Gen Chem II) [3]
- Chem 136L<sup>pph</sup> (Special Gen Chem Lab II) [2]
- Math 236 (Calc II) [4]
- GenEd Cluster 1 [3]
- GenEd <sup>pph</sup> [3-4]

<sup>ap</sup>If Chem 131/132 is complete, consider Chem 270 [3]

### Sophomore Fall (15-17 cr)
- Chem 241<sup>pph</sup> (Organic I) [3]
- Chem 287L<sup>pph</sup> (Inor/Org lab I) [2]
- Phys 240<sup>pph</sup> (University Phys I) [3]
- Phys 140L<sup>pph</sup> (Phys lab I) [1]
- GenEd &/or electives<sup>e, pph</sup> [6-8]

<sup>e</sup>Suggestions: Research &/or BIO 150<sup>pph</sup> (FndtnsII)

All ACS programs require 400 lab hours; 345 met by Core and ACS Chemistry courses. Remainder can be met by research or other lab course(s).

### Sophomore Spring (15-17 cr)
- Chem 242<sup>pph</sup> (Organic II) [3]
- Chem 270 (Inorganic) [3]
- Chem 288L (Inor/Org lab II) [2]
- Phys 250<sup>pph</sup> (University Phys I) [3]
- Phys 150L<sup>pph</sup> (Phys lab I) [1]
- GenEd &/or electives<sup>e, pph</sup> [3-5]

<sup>e</sup>Suggestions: Research;

### Junior Fall (15-17 cr)
- Chem 351 (Analytical) [4]
- Chem 361<sup>pph</sup> (Biochem) [3]
- Chem 481 (Lit & Seminar I) [1]
- Math 237 (Calc III) [4]
- GenEd &/or electives<sup>e</sup> [3-5]

<sup>e</sup>Suggestions: Research [1-2]

### Junior Spring (15-17 cr)
- Chem 331 (PChem I) [3]
- Chem 352 (Instrumental) [3]
- Chem 352L (Instrumental lab) [2]
- Chem 482 (Lit & Seminar II) [1]
- Math 238 (Lin Algebra w/ Diff Eq) [4]
- GenEd &/or electives<sup>e</sup> [2-4]

<sup>e</sup>Suggestions: Research [1-2]

### Senior Fall
- Chem 432 (PChem II) [3]
- Chem 438L (PChem II lab) [2]
- Chem 470 (Inorganic II) [3]
- GenEd &/or electives<sup>e</sup> [7-9]

<sup>e</sup>Suggestions: Research, Math 220<sup>pph</sup>, more Bio<sup>pph</sup>

### Senior Spring
- GenEd &/or electives<sup>e</sup> [15-17]

<sup*e</sup>Suggestions: Research, more Bio<sup>pph</sup>

---

<sup*e</sup>**Chemistry elective courses include:** Research (390, 497, 499), Chem Hazards (325 -F,even), Environmental Chem (353 –Sp,odd), Environmental Field Camp (354 -Su), Geochem (355 -F), Biochem II (362, 366L -Sp), Materials (375 -F), Intermediate Organic (440-F,even), Polymers (445,455L -F,odd), Nuclear (450,450L -Sp,even), Lasers (455 -V), etc. [See Undergrad Catalog]

<sup>pph</sup>**Most pre-Professional health (pre-med, pre-pharm, etc) programs require:** BIO 140-150, CHEM 131-132, CHEM 135L-136L, CHEM 241-242, CHEM 242L or 287L, MATH 220, MATH 235, PHYS 240-250, PHYS 140L-150L.

Recommendations include CHEM 361 and additional Bio courses. Pre-med: GenEd recommendations include PHIL 120 (C1), SOCI 110 (C4), PSYC 101 (C5). Pre-Pharm: GenEd recommendations include PHIL 150 (C1), SCOM 122 (C1), ECON (C4), PSYC 101 or 160 (C5). [See Undergrad Catalog]