### B.S. in CHEMISTRY
Concentration II: American Chemical Society Accredited Biochemistry Program

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

#### Freshman Fall (14-17 cr)
- Chem 131\textsuperscript{ap,pph} (Gen Chem I) [3]
- Chem 135L\textsuperscript{pph} (Special Gen Chem Lab I) [1]
- Math 235\textsuperscript{pph} (Calc I) [4]
- GenEd Cluster 1 [3]
- GenEd WRTC 103 &/or other GenEd [3-6]

\textsuperscript{ap}If AP Chem = 3-5, Chem 131/132 [6]

#### Freshman Spring (16 cr)
- Chem 132\textsuperscript{ap,pph} (Gen Chem II) [3]
- Chem 136L\textsuperscript{pph} (Special Gen Chem Lab II) [2]
- Math 236 (Calc II) [4]
- Bio 140\textsuperscript{pph} (Foundations I) [4]
- GenEd Cluster 1 [3]

\textsuperscript{ap}If Chem 131/132 is complete, consider Chem 270 [3]

#### Sophomore Fall (15-17 cr)
- Chem 241\textsuperscript{pph} (Organic I) [3]
- Chem 287L\textsuperscript{pph} (Inor/Org lab I) [1]
- Phys 240\textsuperscript{pph} (University Phys I) [3]
- Phys 240L\textsuperscript{ppph} (Phys lab I) [1]
- GenEd &/or electives\textsuperscript{e} [6-8]

\textsuperscript{e}Suggestions: Research [1-2]
- BIO 150\textsuperscript{pph} (Foundations II) [4]

#### Sophomore Spring (16 cr)
- Chem 242\textsuperscript{pph} (Organic II) [3]
- Chem 270 (Inorganic) [3]
- Chem 288L (Inor/Org lab II) [2]
- Phys 250 (University Phys I) [3]
- Phys 250L\textsuperscript{pph} (Phys lab I) [1]
- Bio 240 (Genetics) [4]

#### Junior Fall (15-17 cr)
- Chem 351 (Analytical) [4]
- Chem 361\textsuperscript{pph} (Biochem) [3]
- Chem 481 (Lit & Seminar I) [1]
- GenEd &/or electives\textsuperscript{e} [7-9]

\textsuperscript{e}Suggestions: Research [1-2], Math 220\textsuperscript{pph} [3]

All ACS programs require 400 lab hours; 435 met by Core and ACS Biochemistry courses.

#### Junior Spring (15-17 cr)
- Chem 331 (PChem I) [3]
- Chem 352 (Instrumental) [3]
- Chem 352L (Instrumental lab) [2]
- Chem 362 (Biochem II) [3]
- Chem 366L (Biochem Lab) [2]
- Chem 482 (Lit & Seminar II) [1]
- GenEd &/or electives\textsuperscript{e} [1-3]

\textsuperscript{e}Suggestions: Research [1-2]

#### Senior Fall
- Chem 432 (PChem II) [3]
- Chem 438L (PChem II lab) [2]
- Chem 470 (Inorganic II) [3]
- Bio 245 (replaces 380) (Microbiology) [4]
- GenEd &/or electives\textsuperscript{e} [3-5]

\textsuperscript{e}Suggestions: Research, more Bio\textsuperscript{pph}

#### Senior Spring
- Bio 480 (Adv Molecular Biology) [4]
- GenEd &/or electives\textsuperscript{e} [11-13]

\textsuperscript{e}Suggestions: Research, more Bio\textsuperscript{pph}

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\textsuperscript{pph}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]

\textsuperscript{ap}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), Materials (375 -F), Intermediate Organic (440-F,even), Polymers (445, 445L -F,odd), Nuclear (450, 450L -Sp,even), Lasers (455 -V),etc. [See Undergrad Catalog]

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