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

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

<table>
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<tr>
<th>Semester</th>
<th>Courses</th>
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| **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 [3-6]  
<sup>ap</sup>If AP Chem = 3-5, Chem 131/132 [6] |
| **Freshman Spring (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]  
Bio 140<sup>pph</sup> (Foundations I) [4]  
GenEd Cluster 1 [3]  
<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 140<sup>pph</sup> (Phys lab I) [1]  
GenEd &/or electives<sup>e</sup> [6-8]  
<sup>e</sup>Suggestions: Research [1-2]  
BIO 150<sup>pph</sup> (Foundations II) [4] |
| **Sophomore Spring (16 cr)**  | Chem 242<sup>pph</sup> (Organic II) [3]  
Chem 270 (Inorganic) [3]  
Chem 288L (Inor/Org lab II) [2]  
Phys 250 (University Phys I) [3]  
Phys 150L<sup>pph</sup> (Phys lab I) [1]  
Bio 240 (Genetics) [4] |
| **Junior Fall (15-17 cr)**  | Chem 351 (Analytical) [4]  
Chem 361<sup>pph</sup> (Biochem) [3]  
Chem 481 (Lit & Seminar I) [1]  
GenEd &/or electives<sup>e</sup> [7-9]  
<sup>e</sup>Suggestions: Research [1-2], Math 220<sup>pph</sup> [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<sup>e</sup> [1-3]  
<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]  
Bio 380 (Microbiology) [4]  
GenEd &/or electives<sup>e</sup> [3-5]  
<sup>e</sup>Suggestions: Research, more Bio<sup>pph</sup> |
| **Senior Spring**  | Bio 480 (Adv Molecular Biology) [4]  
GenEd &/or electives<sup>e</sup> [11-13]  
<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), 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]

<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]