## BIOCHEMISTRY
### Possible 4 year Plan of Study
(120 Credit Hours Required for Graduation)

#### Freshman Year

**First Semester**
- **1 cr** AGR 10100/11500 (Intro Coll & Purdue)  
- **2** BCHM 10000 (Intro to Biochemistry)  
- **2 or 4** Biology I (BIOL 12100 or 11000)*  
- **4** CHM 11500 (General Chemistry)  
- **3** Social Science or Humanities Selective  
- **3** MA 16010 (Applied Calculus I)  

**Second Semester**
- **3 or 4** Biology II (BIOL 13100 or 11100)**  
- **4** CHM 11600 (General Chemistry)  
- **4** ENGL 10600 (English Composition)  
- **3** MA 16020 (Applied Calculus II)  

Total: 15 or 17

#### Sophomore Year

**Third Semester**
- **3** BCHM 22100 (Analytical Biochemistry)  
- **3** BIOL 23100 (Cell Structure and Function)  
- **2** BIOL 23200 (Cell Structure/Function Lab)  
- **3** CHM 25500 (Organic Chemistry I)  
- **3** CHM 25501 (Organic Chemistry Lab)  
- **3** STAT 30100 (Elem Statistical Methods)  

**Fourth Semester**
- **2** BCHM 29000 (Experimental Design)  
- **3** BCHM 36100 (Molecules)  
- **3** CHM 25600 (Organic Chemistry II)  
- **1** CHM 25601 (Organic Chemistry Lab)  
- **4 or 5** Genetics (AGRY 32000/32100 or BIOL 24100/24200)***  
- **3** COM 11400 (Fund of Speech) or COM 21700 (Science Writing & Presentation)  

Total: 14 or 15

#### Junior Year

**Fifth Semester**
- **2** BCHM 32200 (Analytical Biochemistry)  
- **1** BCHM 39000 (Professional Development)  
- **3** BCHM 46200 (Metabolism)  
- **1** BCHM 49800 (Undergrad Research)  
- **4** PHYS 22000 (General Physics)  
- **3** Humanities Selective (UCC approved)  

**Sixth Semester**
- **1** BCHM 49800 (Undergrad Research)  
- **4** PHYS 22100 (General Physics)  
- **3** Science Selective  
- **3** Social Science or Humanities Selective  
- **3** Written or Oral Communication Selective  
- **3** Social Science or Humanities Selective (30000-level or higher)  

Total: 14

#### Senior Year

**Seventh Semester**
- **3** BCHM 46300 (Macromolecular Machines)  
- **1** BCHM 49800 (Undergrad Research)  
- **3** Economics Selective  
- **3** Written or Oral Communication Selective  
- **3** Social Science or Humanities Selective  

**Eighth Semester**
- **2** BCHM 46500 (Bchm of Life Processes)  
- **1** BCHM 49800 (Undergrad Seminar)  
- **4** CHM 37200 (Physical Chemistry)  
- **3** Science Selective  
- **3** Social Science or Humanities Selective  
- **3** Unrestricted Elective  

Total: 16

* If BIOL 110 is selected, reduce science selective credits by one.  
** If BIOL 11100 is selected, reduce science selective credits by one.  
*** If BIOL 24200 is selected, reduce science selective credits by one.

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