Academic Plan for a B.A. in Biochemistry

FRESHMAN YEAR

**Fall**
- CHEM 151 4
  - (or CHEM 141/143)
- MATH 122A/B (or 125) 5 (3)
- ENGL 101 3
- TIER 1 3
- Total 13-15

**Spring**
- CHEM 152 4
  - (or CHEM 142/144)
- MATH 129 3
- ENGL 102 3
- TIER 1 3 (or 6)
- Total 13-16

SOPHOMORE YEAR

**Fall**
- CHEM 241A/243A 4
- MCB 181 R/L 4
- TIER 1 3
- Second Language 4
- BIOC 296B (or spring) 1
- Total 15-16

**Spring**
- CHEM 241B/243B 4
- ECOL 182 R/L 4
- TIER 1/2 3
- Second Language 4
- BIOC 296B (or fall) 1
- Total 15-16

JUNIOR YEAR

**Fall**
- BIOC 462A 4
- TIER 2 3
- PHYS 102, 140 or 141 3/3/4
- Second Language 4
- TIER 2/Elective 3
- Total 14-18

**Spring**
- BIOC 462B 4
- PHYS 103, 240 or 241 3/3/4
- Second Language 4
- TIER 2 3
- Total 14-15

SENIOR YEAR

**Fall**
- Science Elective 3
- TIER 2/Electives 6-12
- Total 13-18

**Spring**
- Science Elective 3
- General Electives 6-12
- Total Electives 12-18

TOTAL UNITS NEEDED: 120
UPPER DIVISION UNITS NEEDED: 42

Classes in bold are only offered in the fall or spring semester as shown.

Please note that this checklist indicates BIOCBA requirements. Additional coursework not listed on this page is required in order to graduate.

2/25/
NAME ___________________________________ SID _______________ Date ____________

**GENERAL EDUCATION COURSES:**

i. **Freshman Composition (Complete one sequence.)**
   - ENGL 101 (3) _____ ENGL 102 (3) _____ or
     - ENGL 106* ______
   - ENGL 107 (3) _____ ENGL 108 (3) _____ or
   - ENGL 109H (3) _____
   - MCWA____

ii. **Mathematics:** Satisfied by math foundation courses.

iii. **Second Language (Fourth Semester Proficiency)**

**TIER ONE COURSES:**

i. **Individuals and Societies 150 (6 units)**

ii. **Traditions and Cultures 160 (6 units)**

**TIER TWO COURSES:**

i. **Arts (3 units)**

ii. **Humanities (3 units)**

iii. **Individuals and Societies (3 units)**

iv. **Diversity Emphasis Requirement:** One course must meet this requirement. It can be double-dipped with any Tier One or Tier Two course.

**Foundations Courses:** (28-32 units)

**Introductory Biology**
- MCB 181R and L (4)
- ECOL 182R and L (4)

**General Chemistry (Complete one sequence.)**
- CHEM 151 (4) _____ CHEM 152 (4) _____

- CHEM 141/143 (4) _____ CHEM 142/144 (4) _____

**Mathematics**
- MATH 122A/B (5) or 125 (3)
- MATH 129 (3) or MATH 263 (3)

**Physics**
- PHYS 102 (3), 140 (3) or 141 (4) _____
- PHYS 103 (3), 240 (3) or 241 (4) _____

**Major Courses:** (28-33 units)

**Organic Chemistry**
- CHEM 241A (3) _____ CHEM 243A (1) _____
- CHEM 241B (3) _____ CHEM 243B (1) _____

**Biochemistry**
- BIOC 296B Intro to Biochemical Research (1) _____
- BIOC 462A Biochemistry (4; F) _____
- BIOC 462B Biochemistry (4; S) _____

**Science Electives (Complete six units of 300-400 level courses from the list below or as pre-approved by a CBC advisor. All pre-requisites must be met prior to enrolling.)**

- BME 486 ______
- BIOS 376 ______
- CHEE 477R ______
- CHEM 450 ______
- ECOL 320, 326, 346, 474 ______
- MATH 363 ______
- MCB 304, 325, 340, 410, 411, 425, 480 ______
- MIC 328R, 419, 428R, 452 ______
- NSC 408, 475 ______
- NSCS 307, 310, 430 ______
- PCOL 410 ______
- PHCL 412 ______
- PLS 312, 340, 359, 360, 448A ______
- PSIO 380, 404, 420, 431, 484 ______
- PHYS 431 ______

**Note:** Courses offered only in the fall or spring semesters are labeled with F or S.

*Some students may be required to take ENGL 106 prior to taking ENGL 107. If not, ENGL 107 and ENGL 108 will complete foundation composition requirements.