Academic Plan for a B.A. in Biochemistry

FRESHMAN YEAR

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

**Spring**
- CHEM 152 4
- MATH 129 3
- ENGL 102 3
- TIER 1 3 (or 6)

**Total** 13-15

SOPHOMORE YEAR

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

**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

**Spring**
- BIOC 462B 4
- BIOC 466 (or Senior year) 4
- PHYS 103, 240 or 241 3/3/4
- Second Language 4
- TIER 2 3

**Total** 14-18

SENIOR YEAR

**Fall**
- Elective 1 -3
- Science Elective TIER 3
- 2/Electives 6-12

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

**Total** 13-18

**TOTAL UNITS NEEDED: 120**

~Denotes department consent required to enroll-contact CBC advisor

Classes in bold are only offered in the fall or spring semester as shown.
B.A. Biochemistry  
Catalog Year 2015–2016

NAME ______________________________ SID ______________ Date ______________

FOUNDATION COURSES:

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

ii. Mathematics: Satisfied by math pre-major 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. Can be double-dipped with Tier One or Tier Two course

Note: Honors options (H) are available to substitute for a number of the listed pre-major and major courses. Courses offered only in the fall or spring semesters are labeled with F or S.

PRE-MAJOR COURSES: (28-32 units)

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

General Chemistry
  CHEM 151 (4) _____ CHEM 152 (4) ______

Mathematics
  MATH 122A/B (5) or 125 (3) ______
  MATH 129 (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) ______
  BIOC 466 Biochemistry of Nucleic Acids (4; S) ______

Science Electives (Complete six units of 300-400 level courses from the list below or as preapproved by a CBC advisor)

  BME 486
  ECOL 320, 326, 474
  MCB 302, 304, 340, 360, 410, 411, 480
  MIC 328R, 428R
  NROS 307, 310
  NSC 408
  PHCL 412
  PLS 312, 359, 360, 448A
  PSIO 380, 420, 431, 484

CBC Website       UA Academic       Research
Catalogs         Website

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2/17/16