Academic Advisement Report
UGRD.USCNC.BIOCBS
Undergraduate Career
College of Science Program
Biochemistry Major (BS)
Requirement Term: Fall 2014

**Undergraduate Graduation Requirements**

All course work and requirements for this degree must be completed prior to the date the degree is awarded. The University of Arizona requirements to follow in this audit are required for graduation and awarding of the degree.

Curriculum:

1. The University of Arizona and the Arizona Board of Regents have sole discretion over all curricula changes.
2. Courses, programs & requirements may be suspended, deleted, restricted, or changed in any manner, at any time.
3. Students must remain currently informed about all policies & other info that bears on completing a degree.

Required Units:

Additional units will be required to complete this degree if a student:

A) is admitted to the UA with deficiencies;
B) changes his/her academic plan(s);
C) fails to meet minimum course/plan requirements;
D) ineffectively plans or fails to execute a course of study that leads directly to degree completion; or
E) is completing more than one baccalaureate degree. Completing a second bachelor's degree at The University of Arizona requires no fewer than 30 units in addition to the units required for the first degree, and all requirements for the second degree must be met.

The following requirements must be met for graduation.

**Units Required and Cumulative GPA**

120 units are required at a 2.0 GPA. View the pdf report grid for units earned toward this degree and cumulative GPA.

Completing a second bachelor's degree at The University of Arizona requires no fewer than 30 units in addition to the units required for the first degree, and all requirements for the second degree must be met.

**Upper Division Units**

Not Satisfied: A minimum of 42 units of upper-division credit are required for this degree.

- Units: 42.00 required, 0.00 completed, 42.00 needed

**Units in Residence**

Not Satisfied: A minimum of 30 units in residence at The University of Arizona (excluding correspondence credit and credit by exam) is required.

- Units: 30.00 required, 0.00 completed, 30.00 needed

**Final Units in Residence**

A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona. Consult with your academic advisor if you plan to use transfer credits to fulfill your degree requirements.

**Correspondence and/or Exam Credit Limit**

Satisfied: A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.

- Units: 0.00 completed
Non Degree Seeking Limit
A maximum of 15 units completed as a non-degree seeking student may be used for fulfilling undergraduate degree requirements. Units exceeding this limit (shown below) must be subtracted from the units required towards the degree and graduation requirements.

Community College Limit
Not Satisfied: A maximum of 64 units of community college course work may apply toward graduation. A minimum of 56 units of course work must be completed at a 4-year institution, military institution, or as test credit.

- Units: 56.00 required, 0.00 completed, 56.00 needed

Success Course Limit
Satisfied: No more than 3 units will apply toward a student's graduation requirements. All Success courses taken can be seen below. Success Course units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

PE Activity Course Limit
Satisfied: No more than 3 units will apply toward a student's graduation requirements. All PE activity courses taken can be seen below. PE Activity units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

Foundation Mathematics
Not Satisfied: Foundation Mathematics

GE Substantial Math Strand
Not Satisfied: Math GE

GE Substantial Math Strand
Not Satisfied: Complete 1 course from MATH 122B, 124, 125, 125-CC, MATH 129, 129-CC, MATH 215, MATH 223, MATH 223-CC, MATH 250A, MATH 254, MATH 254-CC, MATH 313

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Courses Available
MATH 122B, MATH 124, MATH 125, MATH 125-CC, MATH 129, MATH 129-CC, MATH 215, MATH 223, MATH 223-CC, MATH 250A, MATH 254, MATH 254-CC, MATH 313

Undergraduate General Education and Foundation Requirements

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Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements

Foundation Composition

Not Satisfied: Select from 1 of the 3 following options:
1. First and Second Semester Composition OR
2. Honors Composition with grade of C or higher OR
3. Honors Composition with a grade of D and Second Semester Composition.

Please note: Students who earn a grade of D in Honors Composition may choose to repeat the course in order to earn a higher grade to satisfy the requirement. Please consult with your major advisor.

Mid-Career Writing Assessment - Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or better in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B in 2nd semester English Composition.

Option 1: First Semester Composition

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 103H, ENGL 107, ENGL 107A

AND Option 1: Second Semester Composition

Not Satisfied: AND Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 102, ENGL 104H, ENGL 108

OR Option 2: Honors Composition

Not Satisfied: OR Complete 1 course with a C or better.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 109H

Foundation Second Language - Second Semester Proficiency

Not Satisfied: Credit will not be given for a course at an equivalent or lower level than prior language credit earned. Course must
be taken for a grade, not as pass/fail. Third semester or higher courses used to fulfill this requirement may also be used to fulfill other requirements. A grade of C or higher is required in the course that satisfies the second language requirement.

Demonstrate second semester proficiency in a second language by completing a sequence of courses through a second semester or higher level or by passing a language proficiency examination at the second semester level or higher.

**Second Semester Language Course**

- **Not Satisfied:** Complete 1 course with a grade of C or better.


- **Courses:** 1.00 required, 0.00 completed, 1.00 needed
- **GPA:** 2.000 required, 0.000 completed

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**Courses Available**


**General Education Tier I**

**Overall Requirement Not Satisfied:** Complete 2 courses in each of the following areas.

**Tier I Individuals & Societies**

- **Not Satisfied:** Fulfillment of Individuals and Societies requires completion of two distinctly numbered courses (e.g., INDV 101 & 103 or PSY 150A1 & ANTH 150B1 or PSY 150A1 & INDV 103).

Only one course may be completed from the 150A options OR INDV 101. Only one course may be completed from the 150B options OR INDV 102. Only one course may be completed from the 150C options OR INDV 103.

INDV 101 = 150A#
INDV 102 = 150B#
INDV 103 = 150C#

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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Courses Available


Tier I Traditions & Cultures

Not Satisfied: Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & 104 or AFAS 160A2 & RSSS 160C1 or TRAD 101 & RSSS 160C1).

Only one course may be completed from the 160A options OR TRAD 101. Only one course may be completed from the 160B options OR TRAD 102. Only one course may be completed from the 160C options OR TRAD 103. Only one course may be completed from the 160D options OR TRAD 104.

TRAD 101 = 160A#
TRAD 102 = 160B#
TRAD 103 = 160C#
TRAD 104 = 160D#

· Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available


General Education Tier II

Overall Requirement Not Satisfied: Complete 1 course from each of the following areas.

Tier II Arts

Not Satisfied: Complete 3 units.
**Units:** 3.00 required, 0.00 completed, 3.00 needed

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**Courses Available**


**Tier II Humanities**

**Not Satisfied:** Prerequisite course work in Tier 1 Traditions and Cultures (TRAD) must be completed prior to taking. If LAT 201 or 202 are used to fulfill Foundation Second Language Proficiency, they cannot be used to fulfill Tier II Humanities.

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**Courses Available**


**Tier II Individual & Societies**

**Not Satisfied:** Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.

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**Courses Available**
Courses used to fulfill this requirement may also be used to fulfill other requirements.

### Diversity Emphasis Course

**Not Satisfied:** One course must be taken that focuses on Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies. Courses used to fulfill this requirement may also be used to fulfill other requirements.

**Diversity Emphasis Course**

**Not Satisfied:** General Education Diversity Emphasis Course: Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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### Courses Available

Additional Coursework
Courses listed in this section may include general elective credits, UA courses and transferable courses from other institutions. Consult with your advisor to determine if courses listed in this section may be used to fulfill a requirement or sub-requirement in your degree program.

Courses taken for Pass/Fail option can only count as elective credit. They cannot fulfill any General Education, Major, or Minor requirements.

Biochemistry Pre-Major
Overall Requirement Not Satisfied: Biochemistry Pre-Major. Courses used to fulfill this requirement can be used to fulfill other requirements.

General Chemistry
Overall Requirement Not Satisfied: General Chemistry

1. First Semester General Chemistry
   Not Satisfied: Complete 4 units of lecture and lab.
   · Units: 4.00 required, 0.00 completed, 4.00 needed

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   Courses Available
   CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A, CHEM 151

2. Second Semester General Chemistry
   Not Satisfied: Complete 4 units of lecture and lab.
   · Units: 4.00 required, 0.00 completed, 4.00 needed

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   Courses Available
   CHEM 103B, CHEM 103B-CC, CHEM 104B, CHEM 105B, CHEM 106B, CHEM 152

Introductory Biology
Not Satisfied: Introductory Biology

1. Introductory Biology
   Not Satisfied: Complete 8 units: MCB 181R and MCB 181L or MCB 184 and ECOL 182R and ECOL 182L.
   · Units: 8.00 required, 0.00 completed, 8.00 needed
### Courses Available

- **MCB 181L, MCB 181R, Approved Transfer Course, MCB 181M, MCB 184, ECOL 182L, ECOL 182R**

#### Mathematics

- **Not Satisfied:** Mathematics

  1. **Mathematics** [R1547]

- **Not Satisfied:** Complete 3 courses.

  - Complete one course from MATH 122B or MATH 125.
  - Complete one course from CHEM 380, MATH 223, or MATH 254.

- **Courses:** 3.00 required, 0.00 completed, 3.00 needed

### Courses Available

- **MATH 129, MATH 129-CC, MATH 223, MATH 223-CC, CHEM 380, MATH 254, MATH 254-CC, MATH 122B, MATH 124, MATH 125, MATH 125-CC**

#### Physics

- **Not Satisfied:** Physics

  1. **Physics I** [R1548]

- **Not Satisfied:** Complete 1 course.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

- **PHYS 141, PHYS 161H, PHYS 140**

#### Physics II

- **Not Satisfied:** Complete 1 course.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed
Courses Available

PHYS 241, PHYS 261H, PHYS 240

Bachelor of Science in Biochemistry

Overall Requirement Not Satisfied: Bachelor of Science in Biochemistry - A grade of C or better is required for all major coursework.

Organic Chemistry

Overall Requirement Not Satisfied: Organic Chemistry - A grade of C or better is required for all major coursework.

1. First Semester Organic Chemistry
   Not Satisfied: Complete 2 courses, one lecture and one lab. A grade of C or better is required.
   · Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available


2. Second Semester Organic Chemistry
   Not Satisfied: Complete 2 courses, one lecture and one lab. A grade of C or better is required.
   · Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

CHEM 242B, CHEM 244B, CHEM 246B, CHEM 247B, CHEM 241B, CHEM 243B, Approved Transfer Course

Biochemistry

Overall Requirement Not Satisfied: Biochemistry - A grade of C or better is required for all major coursework.

1. Biochemistry
   Not Satisfied: Complete 4 courses. A grade of C or better is required.
   · Courses: 4.00 required, 0.00 completed, 4.00 needed
### Courses Available

**BIOC 462A, BIOC 462B, BIOC 463A, BIOC 466**

2. Introduction to Biochemical Research

   **Not Satisfied:** Complete 1 unit. A grade of C or better is required.

   - **Units:** 1.00 required, 0.00 completed, 1.00 needed

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### Courses Available

**BIOC 296B**

3. Capstone/Thesis

   **Not Satisfied:** Complete 6 units of BIOC 498 or BIOC 498H. A grade of C or better is required.

   - **Units:** 6.00 required, 0.00 completed, 6.00 needed

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### Physical Chemistry

**BIOC 498, BIOC 498H**

**Overall Requirement Not Satisfied:** Physical Chemistry. A grade of C or better is required for all major coursework.

1. Physical Chemistry I

   **Not Satisfied:** Complete 1 course. A grade of C or better is required.

   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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### Courses Available

**CHEM 480A**
2. Physical Chemistry II
   Not Satisfied: Complete 1 course. A grade of C or better is required.

   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

- CHEM 480B, CHEM 481

Biochemistry Major Graduation Requirements

Overall Requirement Not Satisfied: Biochemistry Major Graduation Requirements

Mid Career Writing Assessment

Not Satisfied: Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or higher in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B or higher in 2nd semester English Composition.

   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Major GPA

Satisfied: A minimum 2.0 GPA is required in the major coursework.

   · Units: 0.00 completed
   · GPA: 2.000 required, 0.000 completed

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Major Residency

Not Satisfied: A minimum of 18 units in the pre-major, supporting coursework, professional core, and/or major must be taken at the University of Arizona.

   · Units: 18.00 required, 0.00 completed, 18.00 needed

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Minor Optional

Satisfied: A minor is optional for this major. Consult with your advisor to select a minor or discuss other options such as selecting a second major.