Academic Advisement Report
UGRD.USCN.BIOCBS
Undergraduate Career
College of Science Program
Biochemistry Major (BS)
Requirement Term: Fall 2010

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.

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
Not Satisfied: A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona.

- Units: 18.00 required, 0.00 completed, 18.00 needed
Correspondence and/or Exam Credit Limit

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

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 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.
Success Course 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:** GE Substantial Math Strand


- **Units:** 2.67 required, 0.00 completed, 2.67 needed
Courses Available

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

Undergraduate General Education and Foundation Requirements

Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements

Foundation Composition

Not Satisfied: Complete 1 of the 2 following options:
1. First and Second Semester Composition OR
2. Honors Composition

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

Option 2: Second Semester Composition

Not Satisfied: AND Complete 1 course

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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

Courses Available

ENGL 101, ENGL 103H, ENGL 107

AND Option 1: Second Semester Composition

Not Satisfied: AND Complete 1 course

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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

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

Courses Available
**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.

Demonstrate second semester proficiency in a second language by completing a second semester or higher language course or by passing a language proficiency examination at the second semester level or higher.

**Second Semester Language Course**

Not Satisfied: Complete 1 course.


- Courses: 1.00 required, 0.00 completed, 1.00 needed

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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).

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

INDV 101, INDV 101-SA, INDV 102, INDV 102-SA, INDV 103, INDV 103-CC, INDV 103-SA, (***) (###)

**Tier I Traditions & Cultures**

Not Satisfied: Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & 104).

- Courses: 2.00 required, 0.00 completed, 2.00 needed

| Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
Courses Available
TRAD 101, TRAD 101-CC, TRAD 102, TRAD 102-CC, TRAD 103, TRAD 103-SA, TRAD 104, TRAD 104-SA, (***) (###)

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

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Courses Available

Tier II Individual & Societies
Not Satisfied: Prerequisite course work in Tier 1 Individuals and Societies (INIV) must be completed prior to taking.
- Courses: 1.00 required, 0.00 completed, 1.00 needed
### 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.

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

### Courses Available

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#### Diversity Emphasis Course

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

**INDV 101** will only fulfill this area if topic taken is "Race, Ethnicity, and the American Dream".

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

### Courses Available

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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

Biochemistry Pre-Major - Introductory Chemistry
Overall Requirement Not Satisfied: Complete First and Second Semester Introductory Chemistry.

1. Option I: First Semester Introductory Chemistry
Not Satisfied: Complete Chem 151

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
CHEM 151, (***) (###)

OR 1. Option II: First Semester Introductory Chemistry
Not Satisfied: Complete CHEM 105A and 106A

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available
CHEM 105A, CHEM 106A

OR 1. Option III: First Semester Introductory Chemistry
Not Satisfied: Complete CHEM 103A and 104A

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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</table>
**Courses Available**

CHEM 103A, CHEM 103A-CC, CHEM 104A

2. Option I: Second Semester Introductory Chemistry

   **Not Satisfied:** Complete CHEM 152

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

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**Courses Available**

CHEM 152, (***) (###)

OR 2. Option II: Second Semester Introductory Chemistry

   **Not Satisfied:** Complete CHEM 105B and 106B

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

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**Courses Available**

CHEM 105B, CHEM 106B

OR 2. Option III: Second Semester Introductory Chemistry

   **Not Satisfied:** Complete CHEM 103B and 104B

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

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**Courses Available**

CHEM 103B, CHEM 103B-CC, CHEM 104B

**Biochemistry Pre-Major - Organic Chemistry**

   **Overall Requirement Not Satisfied:** Courses used to fulfill this requirement can be used to fulfill other requirements.

1. First Semester Organic Chemistry Lecture

   **Not Satisfied:** Complete 1 course.

   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed
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<td>CHEM 246A, CHEM 241A, (***) (###)</td>
<td>2. First Semester Organic Chemistry Lab</td>
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<td>CHEM 243B, CHEM 244B, CHEM 247B</td>
<td>Biochemistry Pre-Major - Math</td>
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<td>Overall Requirement Not Satisfied: Math</td>
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<td>1. Calculus II</td>
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COURSES AVAILABLE

MATH 129, MATH 129-CC

2. Advanced Math

**Not Satisfied:** Complete 1 course.

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

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COURSES AVAILABLE

MATH 223, MATH 223-CC, MATH 254, MATH 254-CC

**Biochemistry Pre-Major - Physics**

**Not Satisfied:** Select one of the following options in Math Physics.

**Option I: Math Physics**

**Not Satisfied:** Complete 3 courses.

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

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COURSES AVAILABLE

PHYS 161H, PHYS 162H, PHYS 261H

**OR Option II: Math Physics**

**Not Satisfied:** Complete 3 courses.

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

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COURSES AVAILABLE

PHYS 141

PHYS 142

PHYS 241

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**Courses Available**
OR Option III: Math Physics

Not Satisfied: Complete 3 courses.

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

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**Courses Available**

PHYS 140, PHYS 143, PHYS 240

**BS in Biochemistry**

Overall Requirement Not Satisfied: Bachelor of Science in Biochemistry

**Biochemistry Major**

Overall Requirement Not Satisfied: Biochemistry Major

1. Core Courses

Not Satisfied: Complete 6 courses.

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

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**Courses Available**


2. Introductory Biology I

Not Satisfied: Complete 4 units.

- **Units:** 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**

3. Biochemical Research
   Not Satisfied: Complete 1 unit.
   · Units: 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

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4. Physical Chemistry I
   Not Satisfied: Complete 1 course.
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

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5. Physical Chemistry II
   Not Satisfied: Complete 1 course.
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

<table>
<thead>
<tr>
<th>Term</th>
<th>Subject</th>
<th>Catalog Nbr</th>
<th>Course Title</th>
<th>Grade</th>
<th>Units</th>
<th>RptCd</th>
<th>RqDes</th>
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<td>480B, CHEM 481</td>
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6. Capstone/Thesis
   Not Satisfied: Complete 6 units of BIOC 498 or 6 units of BIOC 498H.
   · Units: 6.00 required, 0.00 completed, 6.00 needed

### Courses Available

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<td>498, BIOC 498H</td>
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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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</thead>
</table>

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

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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<tr>
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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.