Academic Advisement Report  
UGRD.USCNC.BIOLBS.BF  
Undergraduate Career  
College of Science Program  
Biology Major (BS)  
Bioinformatics Specialization  
Requirement Term: Fall 2012

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 intend 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.
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.
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: GE Substantial Math Strand

GE Substantial Math Strand
Not Satisfied: Complete 1 course from MATH 124, 125, 129, 223 TO 499.
- Units: 2.67 required, 0.00 completed, 2.67 needed

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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

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

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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.

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.


- **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 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**


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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 160A1 & RSSS 160A1 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

Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type
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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 (INDV) must be completed prior to taking.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

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.
**BS in Biology**

**Overall Requirement Not Satisfied:** Bachelor of Science in Biology

**Science Foundation Courses Chemistry Requirement**

**Overall Requirement Not Satisfied:** Complete 2 semesters of Introductory Chemistry and 2 semesters of Organic Chemistry.

1. 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. 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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**Courses Available**

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

OR 1. 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

2. 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. Second Semester Introductory Chemistry (R1302/L50)

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 OR 2. Second Semester Introductory Chemistry (R1302/L60)

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

3. First Semester Organic Chemistry (R1302/L70)

Not Satisfied: Complete CHEM 241A and 243A

· Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

CHEM 241A, CHEM 243A, (***) (###) OR 3. First Semester Organic Chemistry (R1302/L80)

Not Satisfied: Complete CHEM 242A and 244A

· Courses: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

CHEM 242A, CHEM 244A

**OR 3. First Semester Organic Chemistry**  
*Not Satisfied:* Complete CHEM 246A and 247A

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

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**Courses Available**

CHEM 246A, CHEM 247A

**4. Second Semester Organic Chemistry**  
*Not Satisfied:* Complete CHEM 241B and 243B

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

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**Courses Available**

CHEM 241B, CHEM 243B, (***) (###)

**OR 4. Second Semester Organic Chemistry**  
*Not Satisfied:* Complete CHEM 242B and 244B

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

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**Courses Available**

CHEM 242B, CHEM 244B

**OR 4. Second Semester Organic Chemistry**  
*Not Satisfied:* Complete CHEM 246B and 247B

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

CHEM 246B, CHEM 247B

**Science Foundation Physics and Math Requirement**

Overall Requirement Not Satisfied: Science Foundation Physics and Math Requirement

1. Introductory Physics
   
   Not Satisfied: Complete 2 courses.
   
   - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

PHYS 141, PHYS 241

OR 1. Introductory Physics

Not Satisfied: Complete 4 courses.

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

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</table>

**Courses Available**

PHYS 102, PHYS 102-CC, PHYS 102-SA, PHYS 103, PHYS 103-CC, PHYS 181, PHYS 181-SA, PHYS 182

2. Calculus I

Not Satisfied: Complete 1 course.

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

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**Courses Available**

MATH 122B, MATH 124, MATH 125, MATH 125-CC
3. Calculus II
   **Not Satisfied:** Complete 1 course.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

MATH 129, MATH 129-CC

4. Statistics
   **Not Satisfied:** Complete 1 course.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

MATH 263, MATH 263-CC, MATH 363

5. Additional Math
   **Not Satisfied:** Complete 1 course.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

MATH 215, MATH 254, MATH 254-CC

Core Courses

Overall Requirement Not Satisfied: Core Courses

1. Introductory Biology I
   **Not Satisfied:** Complete 1 course.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**
MCB 184

OR 1. Introductory Biology I

Not Satisfied: Complete 2 courses.

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

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Courses Available

MCB 181L, MCB 181R

2. Introductory Biology II

Not Satisfied: Complete 2 courses.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ECOL 182L, ECOL 182R

3. Additional Courses

Not Satisfied: Complete 3 courses. Select 1 course from ECOL 320 or 320H; only 1 may be used to fulfill this requirement.

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ECOL 302, ECOL 320, ECOL 320H, ECOL 335

Option in Bioinformatics

Overall Requirement Not Satisfied: Option in Bioinformatics

Bioinformatics Option

Overall Requirement Not Satisfied: Bioinformatics Option

1. Organismal Biology

Not Satisfied: Complete 1 course.
Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

BIOC 384, BIOC 462A

2. Bioinformatics Core

Not Satisfied: Complete 2 courses.

· Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ECOL 426, ECOL 596U, EIS 596U, PLS 596U, RNR 596U

3. Genomics

Not Satisfied: Complete 1 course.

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ECOL 326, ECOL 453

4. Computer Science

Not Satisfied: Complete 2 courses.

· Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

CSC 127A, CSC 127B

5. Project in Bioinformatics/Genomics

Not Satisfied: Complete 1 course.

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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### 6. Distributional Electives in Cellular/Molecular Biology

**Not Satisfied:** Complete 6 units.

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

### 7. Science and Society

**Not Satisfied:** Complete 1 course.

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

### 8. Writing Emphasis Course

**Not Satisfied:** At least 1 non-core course must be a writing emphasis course. Courses used to fulfill this requirement may also be used to fulfill other requirements.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed
Biology Bioinformatics Major Graduation Requirements

Overall Requirement Not Satisfied: Biology Bioinformatics 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 Units

Not Satisfied: A minimum of 35 units must be completed in the major.

- Units: 35.00 required, 0.00 completed, 35.00 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.