Academic Advisement Report
UGRD.UAGSC.ENVS.BSES.EMB
Undergraduate Career
College of Ag & Life Sciences Program
Environmental Sciences Major (BSES)
Environmental Microbiology Option
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

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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

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 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 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

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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 (RS21)

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 (RS21L10)
Not Satisfied: Complete 1 course.


- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

AIS 104B, AIS 307A, ARB 102, CHN 102, CHN 102-CC, CHN 102-SA, CRL 102, CRL 197A, FREN 102, FREN 102-CC, FREN 102-SA, FREN 112, GER 102, GER 102-CC, GRK 102, GRK 102-SA, GRK 104, ITAL 102, ITAL 102-CC, ITAL 102Z, ITAL 102Z-SA, JPN 102, LAT 102, LAT 102-SA, LING 104B, LING 307A, PORT 102, PRS 102, RSSS 101B, RSSS 101B-SA, SERP 370B, SPAN 102, SPAN 102-CC, SPAN 103, TURK 102

General Education Tier I (RS22)
Overall Requirement Not Satisfied: Complete 2 courses in each of the following areas.

Tier I Individuals & Societies (RS22L10)
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 (RS22L130)
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

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### 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

#### 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

#### 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


**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.

**BSES in Environmental Sciences**

Overall Requirement Not Satisfied: Bachelor of Science in Environmental Sciences

**Environmental Sciences Basic Core Courses**

Overall Requirement Not Satisfied: Environmental Sciences Basic Core Courses

1. Option 1: Introductory Chemistry
   Not Satisfied: Complete CHEM 103A and 104A
   - Courses: 2.00 required, 0.00 completed, 2.00 needed

2. Option 2: Introductory Chemistry
   Not Satisfied: OR Complete Chem 151
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

3. Option 3: Introductory Chemistry
   Not Satisfied: OR Complete CHEM 105A and 106A
   - Courses: 2.00 required, 0.00 completed, 2.00 needed

**Courses Available**

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

OR

CHEM 151, (***) (###)

OR

CHEM 105A and 106A (**) (###)
Courses Available

CHEM 105A, CHEM 106A

2. Option 1: Second Semester Introductory Chemistry
   Not Satisfied: Complete CHEM 103B and 104B
   · Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

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

OR 2. Option 2: Second Semester Introductory Chemistry
   Not Satisfied: OR Complete CHEM 152
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

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

OR 2. Option 3: Second Semester Introductory Chemistry
   Not Satisfied: OR Complete CHEM 105B and 106B
   · Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

CHEM 105B, CHEM 106B

3. Organic Chemistry
   Not Satisfied: Complete CHEM 241A and 243A
   · Courses: 2.00 required, 0.00 completed, 2.00 needed
### Courses Available

**CHEM 241A, (***), CHEM 243A**

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

### Courses Available

**PHYS 102, PHYS 102-CC, PHYS 181**

5. Introductory Biology  
   *Not Satisfied:* Complete 4 units  
   - **Units:** 4.00 required, 0.00 completed, 4.00 needed

### Courses Available


6. Core Sciences  
   *Not Satisfied:* Complete 4 courses  
   - **Courses:** 4.00 required, 0.00 completed, 4.00 needed

### Courses Available

**SWES 195A, SWES 200, SWES 201, SWES 210**

7. Calculus  
   *Not Satisfied:* Complete 1 course. A maximum of one course may be taken from MATH 124 and 125.
- **Courses**: 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

**MATH 124, MATH 125, MATH 125-CC**

8. **Statistics**

   Not Satisfied: Complete 1 course

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

### Courses Available

**MATH 263, MATH 263-CC, ECON 276, MGMT 276, PSY 230, PSY 230-CC**

9. **Microbiology**

   Not Satisfied: Complete 2 courses

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

### Courses Available

**MIC 205A, MIC 205L**

10. **Core Courses**

   Not Satisfied: Complete 4 courses. A maximum of one course may be taken between AREC 476 and 479.

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

### Courses Available

**AREC 476, AREC 479, GEOG 479, HWRS 476, HWRS 479, RNR 476, RNR 479, SWES 305, SWES 430L, SWES 430R, SWES 479**
11. Option 1: Analytical Chemistry

Not Satisfied: Complete 2 courses

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

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Courses Available

CHEM 325, CHEM 326

OR 11. Option 2: Principles of Analysis

Not Satisfied: OR Complete 2 courses

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

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Courses Available

CHEM 322, CHEM 323

12. Economics

Not Satisfied: Complete 1 course

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

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Courses Available

ECON 200, ECON 200-CC, ECON 201A, ECON 201A-CC

13. Writing Course

Not Satisfied: Complete 1 course

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

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Courses Available

ENGL 308, SWES 408

14. Additional Course

Not Satisfied: Complete 1 course

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

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Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CPH 418, SWES 418, SWES 444, SWES 461, WSM 444

15. Internship, Teaching Workshop or Internship
Not Satisfied: Complete 1 course
- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ABE 397A, SWES 393, SWES 393-SA, SWES 397A, SWES 399

Option in Environmental Microbiology
Not Satisfied: Option in Environmental Microbiology

Microbiology Focus
Not Satisfied: Microbiology Focus

1. Core Courses
- Not Satisfied: Complete 3 courses
- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

CHEM 241B, MIC 425, MIC 426, SWES 425, SWES 426, (***) (###)

2. Core Electives
- Not Satisfied: Complete 15 units
- Units: 15.00 required, 0.00 completed, 15.00 needed

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Courses Available


Environmental Sciences Major Graduation Requirements

Overall Requirement Not Satisfied: Environmental Sciences 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

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 Upper Division

Not Satisfied: A minimum of 18 units of upper-division major coursework must be completed.

- Units: 18.00 required, 0.00 completed, 18.00 needed

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
**Minor Optional** *(R1341)*

**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.