Academic Advisement Report  
UGRD.UAGSC.ENVS.BSES.EGR  
Undergraduate Career  
College of Ag & Life Sciences Program  
Environmental Sciences Major (BSES)  
Remote Sens Geospatial An Specialization  
Requirement Term: Fall 2013

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.
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,124,125,129,223 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: 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 consults 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.

- 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

(###) (##), ANTH 150B1, ANTH 150B1-SA, ART 150B1, ART 150B1-SA, ART 150B2, EDP 150B1, EDP 150B1-SA, ENGL 150B1, ENGL 150B1-SA, FSHD 150B1, GEOG 150B1, GEOG 150B1-SA, GER 150B1, GER 150B1-SA, GWS
Tier I Traditions & Cultures

**Not Satisfied:** Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & TRAD 104 or AFAS 160A1 & 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.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

AFAS 200, AFAS 222, AFAS 224, AFAS 230, AFAS 245, AFAS 245-CC, AFAS 249, AFAS 255, AFAS 315, AFAS 320, AFAS 324, AFAS 365, AFAS 373, AFAS 381, ANTH 222, ANTH 300, ARH 300, ARH 329, ART 329, CHN 245, CLAS 220, CLAS 221, CLAS 221-SA, CLAS 260, CLAS 300, CLAS 300-SA, CLAS 329, CLAS 335, CLAS 342, CLAS 345, CLAS 346, CLAS 348, CLAS 367, CLAS 373, ENGL 201, ENGL 201-SA, ENGL 209, ENGL 210, ENGL 300, ENGL 300-SA, FTV 252, FTV 375, HNRS 203H, HNRS 218, HNRS 295B, ISTA 301, JPN 245, LAS 322, LAS 337, MAS 337, MUS 100, MUS 100-CC, MUS 101A, MUS 107, MUS 107-CC, MUS 108, MUS 108-CC, MUS 109, MUS 206, MUS 231, MUS 328, MUS 334, MUS 334-CC, MUS 337, MUS 344, MUS 360, TAR 100, TAR 103, (***) (###)

**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**

Courses listed in this section may include general elective credits, UA courses and transferable courses from other institutions.

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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

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

### General Sciences Core

**Overall Requirement Not Satisfied:** General Sciences Core

1. **Introductory Chemistry I**
   - **Not Satisfied:** Complete 4 units.
     - **Units:** 4.00 required, 0.00 completed, 4.00 needed

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

2. **Introductory Chemistry II**
   - **Not Satisfied:** Complete 4 units.
     - **Units:** 4.00 required, 0.00 completed, 4.00 needed

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

3. **Organic Chemistry**
   - **Not Satisfied:** Complete 4 units.
     - **Units:** 4.00 required, 0.00 completed, 4.00 needed

   **Courses Available**
   - CHEM 241A, CHEM 243A, (***) (###)
4. **Math**

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

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   **Courses Available**

   MATH 124, MATH 125, MATH 125-CC, MATH 122B

5. **Statistics**

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

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   **Courses Available**

   COMM 200, ECON 276, GEOG 200, ISTA 116, MATH 263, MATH 263-CC, MATH 363, MGMT 276, PA 200, POL 200, PSY 230, PSY 230-CC, SBS 200, SOC 200

6. **Introductory Biology I**

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

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   **Courses Available**

   MCB 181L, MCB 181R, MCB 181R, MCB 184

7. **Introductory Biology II**

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

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   **Courses Available**

   ECOL 182R, ECOL 182R
8. Microbiology
   **Not Satisfied:** Complete 1 course.

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

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**Courses Available**

MIC 205A

9. Physics
   **Not Satisfied:** Complete 2 courses.

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

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**Courses Available**

PHYS 102, PHYS 102-CC, PHYS 102-SA, PHYS 181, PHYS 181-SA

**Environmental Science Core**

**Overall Requirement Not Satisfied:** Environmental Science Core

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

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

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**Courses Available**

ECOL 302, ECOL 474, ECOL 475, MIC 425, RNR 316, SWES 425, SWES 474, WFSC 474

2. Geology
   **Not Satisfied:** Complete 1 course.

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

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**Courses Available**

GEOS 251

3. Environmental Physics

*Not Satisfied:* Complete 1 course.

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

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**Courses Available**

ATMO 336, SWES 420

4. Hydrology

*Not Satisfied:* Complete 1 course.

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

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**Courses Available**

HWRS 250, HWRS 460A, WSM 460A

5. Soils

*Not Satisfied:* Complete 2 courses.

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

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**Courses Available**

SWES 200, SWES 201

6. Environmental Chemistry

*Not Satisfied:* Complete 1 course.

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

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**Courses Available**

GEOS 340, HWRS 340, HWRS 417A, SWES 340, SWES 462

**7. Pollution**

*Not Satisfied:* Complete 1 course.

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

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**Courses Available**

SWES 305

**8. Health Risk Assessment**

*Not Satisfied:* Complete 1 course.

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

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**Courses Available**

CPH 418, HWRS 443A, SWES 418

**Career Preparation Courses**

*Overall Requirement Not Satisfied:* Career Preparation Courses

**1. Environmental Science**

*Not Satisfied:* Complete 1 course.

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

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**Courses Available**

SWES 210

**2. Technical Writing**

*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, SWES 415

3. **Capstone**

Not Satisfied: Complete 2 courses.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

SWES 430L, SWES 430R

OR 3. **Capstone**

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

SWES 461

4. **Internship, Teaching Workshop, or Independent Study**

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, SWES 499

**Option in Remote Sensing & Geospatial Analysis**

Overall Requirement Not Satisfied: Option in Remote Sensing & Geospatial Analysis

This option applies principles of remote sensing and geographic information systems analysis tools and their applications to the study of the environment and global change.

**Remote Sensing & Geospatial Analysis Focus**

Overall Requirement Not Satisfied: Remote Sensing & Geospatial Analysis Focus
1. Remote Sensing & Geospatial Analysis Core Courses

   **Not Satisfied:** Complete 2 courses.

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

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**Courses Available**

   GEN 330, GEOG 330, GEOG 417, GEOS 330, RNR 417, SWES 330, WSM 330

2. Remote Sensing & Geospatial Analysis Required Courses

   **Not Satisfied:** Complete 2 courses.

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

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**Courses Available**

   ATMO 490, GEN 490, GEOG 419, GEOG 420, GEOG 483, GEOG 490, GEOS 490, HWRS 490, MNE 490, OPTI 490, PLG 483, REM 490, RNR 419, RNR 420, RNR 483, RNR 490, SWES 453, SWES 483, SWES 490

3. Remote Sensing & Geospatial Analysis Optional Courses

   **Not Satisfied:** Complete 2 courses.

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

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**Courses Available**

   ECE 531, GEOG 303, GEOG 357, GEOG 416A, GEOG 473, GEOS 478, OPTI 531, RNR 271, RNR 321, RNR 416A, RNR 473, SWES 431, SWES 461, SWES 470

**Remote Sensing & Geospatial Analysis Focus Graduation Requirements**

**Overall Requirement Not Satisfied:** Remote Sensing & Geospatial Analysis Focus Graduation Requirements

   **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

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.