

B.S. Environmental & Water Resource Economics

I. General Education: Foundations (15–18 units)

A. Freshman Composition (6 units)

_____ English 101

_____ English 102

Honors Students

_____ English 109H

International Students

_____ English 107

_____ English 108

B. Second Language (One of the following)

_____ Score the equivalent or higher of second-semester proficiency on a proficiency examination administered by the University of Arizona.

_____ Complete a second semester course at the post-secondary level with a grade of C or better.

_____ Achieve an AP score of 3 or higher or a CLEP score of 55 or higher. [American students who are native speakers of languages other than English (e.g., Spanish, American Sign Language, Navajo) will be accommodated by the appropriate department. Foreign students who are native speakers of languages other than English may fulfill the second language requirement through proficiency in English as long as they have taken the CLEP exam upon applying to the University.]

C. Mathematics (9–12 units; the Math Placement Test is a prerequisite)

_____ Math 109 or 110 or 112 College Algebra (4) or (3)

_____ ISTA 116 Statistical Foundations for the Information Age (4)

_____ Math 163 Basic Statistics (3)

_____ BNAD/MGMT 276 Statistical Inference in Management (3)

_____ SBS 200 Intro to Statistics for the Social Sciences (4)

} Choose one

_____ Math 113 Elements of Calculus (3)

_____ Math 116 Calculus Concepts for Business Majors (3)

_____ Math 122a Functions for Calculus (1) } **and**

_____ Math 122b First Semester Calculus (3)

_____ Math 125 Calculus I (3)

} Choose one



THE UNIVERSITY OF ARIZONA
COLLEGE OF AGRICULTURE & LIFE SCIENCES

**Agricultural &
Resource Economics**

II. Tier 1 (18 units)

A. Individuals & Societies [INDV] (2 courses)

B. Natural Sciences [NATS] (2 courses)

C. Traditions & Cultures [TRAD] (2 courses)

III. Tier 2 (12 units)

A. Arts (1 course from approved list) (3 units total)

B. Humanities (1 course from approved list)

C. Natural Sciences (1 course from approved list)

D. Individuals and Societies

Satisfied by major requirements

E. Diversity Emphasis (1 course from approved list; can be crosslisted as another Tier I or Tier II)

IV. Environmental and Water Resource Economics Pre-major

(12–15 units) All courses are 3 units unless indicated. (S) = spring (F) = fall offering

A. Communication (Complete 2 courses from this list or a course approved by your advisor.)

- _____ AED 301 Youth Leadership Development
- _____ AED 309 Leadership Principles and Practice
- _____ AED 311 Professional Leadership Concepts
- _____ AED 409 Team and Organizational Leadership
- _____ AED 410 Entrepreneurial Leadership in Agriculture and the Life Sciences
- _____ AED 411 Principles and Applications of Organizational Innovation
- _____ AGTM 422 Communicating Knowledge in Agriculture and the Life Sciences
- _____ COMM 101 Intro to the Study of Communication
- _____ COMM 119 Public Speaking (**Enroll in special section open for CALS students only**)
- _____ ENGL 307 Business Writing
- _____ ENGL 308 Technical Writing
- _____ ENGL 340 Topics in Professional and Technical Writing
- _____ ENVS 408 Scientific Writing for Environmental, Agricultural, and Life Sciences*
- _____ ENVS 415 Translating Environmental Science*
- _____ HED 201 Foundations of Leadership (F, S)
- _____ HED 397b Project SOAR (2 units) (S)

*ENVS 408 and 415 will not count as both a Communication elective and focus area course(s).

B. Computer Skills (3 units; Choose one.)

- _____ ABE 120 Microcomputing Applications
 - _____ MIS 111 Introduction to Computing
- } **Choose one**

C. Economics (3–6 units)

- _____ ECON 200 Basic Economic Issues
 - _____ ECON 201a Principles of Economics (Micro)
 - _____ ECON 201b Principles of Economics (Macro)
- } **Alone**
or
} **Both (from transfer coursework)**

V. Environmental & Water Resource Economics Courses (45 units)

A. Required Core Courses (24 units)

- _____ AREC 304 Intermediate Production and Consumption Analysis (F) (Calc. req.) } Choose one
_____ ECON 301 Microeconomic Analysis and Applications (S)
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- _____ ECON 331 Macroeconomic Analysis and Applications (F)
_____ AREC 339 Economic Statistics (F, Sum) (Calc. req. & ECON 200)
_____ AREC 360 The Poverty and Development of Nations (S)
_____ AREC 403 Marketing and Price Analysis (S) (AREC 339, Calc. & Int. Econ. req.)
_____ AREC 464 Economics of Policy Analysis (F) (Calc. req.)
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- _____ AREC 373 Environmental Economics (F, S)* } Choose two
_____ AREC 476 Environmental Law and Economics (S) (Calc. & Int. Econ. req.)
_____ AREC 479 Economics of Water Management and Policy (F) (Calc. & Int. Econ. req.)

* Must register by emailing econreg@eller.arizona.edu

B. Focus Areas. (21 units required; any combination) Substitutions are permissible with advisor approval.

1. Quantitative Methods

- _____ GEOG 330 Introduction to Remote Sensing (F)
_____ GEOG 416f GIS for the Social Sciences (S)
_____ ENVS 417 Geographic Information Systems for Natural Resources (F, S)
_____ ENVS 453 Remote Sensing of the Environment (S)
_____ RNR 321 Natural Resources Measurement (S)
_____ RNR 403 Applications of Geographic Information Systems (F, S)
_____ RNR 485a Natural Resource Economics and Planning (S)

2. Environmental Management

- _____ GEOG 362 Environment and Development (F)
_____ GEOG/AREC 471 Problems in Regional Development (F, S)
_____ HIST 355 U.S. Environmental History (S)
_____ HIST 356 Global Environmental History (S)
_____ ENVS 418 Introduction to Human Health Risk Assessment (S)
_____ RNR 256 Sustainable Cities and Societies (F, S)
_____ RNR 384 Natural Resources Management Practices (S)
_____ RNR 485a Natural Resource Economics and Planning (S)

3. Environmental Law and Policy

- _____ HWRS 415 Introduction to Water Resources Policy (S)
- _____ ENV5 444 Applied Environmental Law (F)
- _____ PA 481 Environmental Policy (S)
- _____ RNR 480 Natural Resources Policy and Law (S)

4. Communication

- _____ SCI 401 Science Communication (F, S)
- _____ ENV5 408 Scientific Writing for Environmental, Agricultural, and Life Sciences (S)
- _____ ENV5 415 Translating Environmental Science (S)

5. Environmental Science

- _____ RNR 316 Natural Resources Ecology (F)

VI. General Electives (18–26 units)

Internship credits (AREC 393 or 493) are encouraged as well

Graduation Requirements

- 18 units must be AREC courses
- 42 units upper division courses
- 120 total units
- Writing Proficiency Exam (satisfactory grade of “B” or higher in English composition or in a writing development course)
- Minimum 2.0 GPA in major courses (required core and focus area units)
- Minimum 2.0 cumulative GPA (including all UA coursework)

EWRE
4 YEAR PLAN

EWRE 2016-2017

		Year 1		
Fall Semester 1st semstr.	Units		Spring Semester 2nd semstr.	Units
Math112 or Math109C	3		Math113 or Math116 or Math122A/B or Math125	3
ENGL101 First Year Composition	3		ENGL102 First Year Composition	3
MIS111	3		2nd semester 2nd language	4
1st semester 2nd language	4		ECON200	3
Tier I General Education	3		Tier I General Education	3
total	16		total	16

		Year 2		
Fall Semester 3rd semstr.	Units		Spring Semester 4th semstr.	Units
MATH163, ISTA116, SBS200 OR MGMT276	3		T2 Arts	3
Tier I General Education	3		T2 Humanities	3
Tier I General Education	3		T2 Natural Science	3
Tier I General Education	3		Elective	3
Tier I General Education	3		Comm skills area course	3
total	15		total	15

		Year 3		
Fall Semester 5th semstr.	Units		Spring Semester 6th semstr.	Units
Focus area course-Upper Division	3		Comm skills area course	3
AREC373 or Environm Econ course	3		AREC360 Spring only	3
AREC339 Fall only	3		Focus area course-Upper Division	3
AREC304 Fall only	3		Focus area course-Upper Division	3
ECON331 Fall only	3			
AREC397 Fall only	1		Focus area course	3
total	16		total	15

		Year 4		
Fall Semester 7th semstr.	Units		Spring Semester 8th semstr.	Units
AREC479 or Environm Econ course	3		AREC403 Spring only	3
AREC464 Fall only	3		Focus area course	3
Focus area course-Upper Division	3		Elective - Upper Division	3
Focus area course-Upper Division	3		Elective	3
Elective	3			
total	15		total	12

AREC Course Planning Worksheet

Fall	Units	Spring	Units	Summer	Units
Total		Total		Total	

Fall	Units	Spring	Units	Summer	Units
Total		Total		Total	

Fall	Units	Spring	Units	Summer	Units
Total		Total		Total	

Fall	Units	Spring	Units	Summer	Units
Total		Total		Total	

Completed Units + Planned Units = (120 Units Total Required)

Upper Division Units = (42 Upper Division Units Required)