

B.S. Environmental & Water Resource Economics

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

A. Freshman Composition (6 units)

- _____ English 100
- _____ English 101
- _____ English 102

Honors Students

- _____ English 103H
- _____ English 104H

Foreign Students

- _____ English 106
- _____ English 107
- _____ English 108

B. Second Language (One of the following)

- _____ Score the equivalent of second-semester proficiency on an entrance or placement examination administered by the University of Arizona.
- _____ Complete a second semester course at the post-secondary level with a grade of C or better. (Units are not included in the credit hours for the degree.)
- _____ Achieve an AP score of 2 or higher or a CLEP score of 41 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.]

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

- _____ Math 109 or 110 or 112 College Algebra (4) or (3)
 - _____ Math 115a Business Mathematics I (3)
 - _____ ITSA 116 Statistical Foundations for the Information Age (3)
 - _____ Math 263 Intro to Statistics and Biostatistics (3)
 - _____ SBS 200 Intro to Statistics for the Social Sciences (3)
- } **Choose one**
- _____ Math 113 Elements of Calculus (3)
 - _____ Math 124 Calculus with Applications (5)
 - _____ Math 125 Calculus I (3)
- } **Choose one**



II. Tier 1 (18 units; must be completed prior to completion of 60 units)*

A. Natural Sciences [NATS] (2 courses from separate categories)

B. Individuals & Societies [INDV] (2 courses from separate categories)

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

III. Tier 2 (12 units)

A. Natural Sciences (1 course from approved list)

B. Individuals and Societies

Satisfied by major requirements

C. Humanities (1 course from approved list)

D. Arts (1 course from approved list)

E. Diversity Emphasis (1 course from approved list)

IV. Environmental and Water Resource Economics Pre-major (12–15 units)

A. Communication (Complete 6 units from this list or a course approved by the advisor.)

- _____ AED 409 Team and Organizational Leadership
- _____ AED 422 Communicating Knowledge in Agriculture and the Life Sciences
- _____ COMM 101 Intro to the Study of Communication
- _____ COMM 113 Intro to Small Group Communication (May need Departmental consent to register)
- _____ COMM 114 Intro to Interpersonal Communication (May need Departmental consent to register)
- _____ COMM 119 Public Speaking (May need Departmental consent to register)
- _____ ENGL 307 Business Writing
- _____ ENGL 308 Technical Writing
- _____ SWES 408 Scientific Writing for Environmental, Agricultural, and Life Sciences

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

- _____ ABE 120 Microcomputing Applications
- _____ MIS 111 Introduction to Computing
- _____ RNR 271 Natural Resources Computer Applications

C. Economics (3–6 units; Choose either Econ 200 or both Econ 201a and 201b)

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

V. Environmental & Water Resource Economics Courses (42 units)

A. Required Core Courses (9 units)

- _____ AREC 304 Intermediate Production and Consumption Analysis (S)
- _____ ECON 300 Microeconomic Analysis for Business Decisions
- _____ ECON 361 Intermediate Microeconomics; (See Advisor) } Choose one
- _____ AREC 339 Economic Statistics (F)
- _____ MGMT 276 Statistical Inference in Management } Choose one
- _____ AREC 478 Economics of the Natural Environment (S)
- _____ AREC 476 Environmental Law and Economics (S) } Choose one

B. Focus Areas. (33 units required; any combination) Substitutions are permissible with advisor approval and can include courses not taken in the required core (Section A) above.

1. Quantitative Methods

- _____ RNR 403 Applications of Geographic Information Systems
- _____ SWES 453 Remote Sensing of the Environment
- _____ AREC 403 Marketing and Price Analysis (**S**)
- _____ ECON 418 Introduction to Econometrics
- _____ SWES 417 Geographic Information Systems for Natural Resources
- _____ GEOG 461 Environmental and Resource Geography
- _____ ECON 431 Games and Decisions
- _____ RNR 485 Natural Resource Economics and Planning

2. Management and Policy

- _____ SWES 444 Applied Environmental Law
- _____ ECON 438 Law and Economics
- _____ AREC 360 The Poverty and Development of Nations
- _____ AREC 464 Economics of Policy Analysis (**F**)
- _____ AREC 479 Economics of Water Management and Policy (**F**)
- _____ SWES 418 Introduction to Human Health Risk Assessment
- _____ PA 481 Environmental Policy
- _____ RNR 480 Natural Resources Policy and Law
- _____ HIST 355 U.S. Environmental History
- _____ HWR 415 Introduction to Water Resources Policy

3. Environmental Science

- _____ ECOL 302 Introduction to Ecology
- _____ HWR 250 R/L Principles of Hydrology
- _____ SWES 200 Soils
- _____ SWES 462 Environmental Soil and Water Chemistry
- _____ ENG 308 Technical Writing
- _____ SWES 408 Scientific Writing for Environmental, Agricultural, and Life Sciences
- _____ RNR 316 Natural Resources Ecology
- _____ HWR 450 & 451 Environmental Hydrology and Lab
- _____ WSM 462 Watershed Management

VI. General Electives (21–29 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 or writing development course)
- Minimum 2.0 GPA in major courses
- Minimum 2.0 cumulative GPA (including all UA coursework)

