GLOBAL RESOURCE SYSTEMS

The Global Resource Systems undergraduate major employs a truly interdisciplinary and systemic approach to understanding complex global resource issues. Students develop a core set of technical competencies in a resource area selected from the majors, minors and certificates offered by the College of Agriculture and Life Sciences. Students choose a world region in which to specialize, develop competency in a relevant world language, and participate in a significant cross-cultural internship experience. They carry out a senior project related to their resource specialization within the context of the world region. The undergraduate experience culminates with a senior capstone course, where students work with real-world clients to address global resource challenges.

Multidisciplinary themes are developed in the context of the physical, biological and socio-economic factors affecting global resource systems. In this context, resource systems include natural, food and agricultural, environmental, cultural and human, political and institutional, financial and built, public health and social resources. Graduates of this program have transnational leadership skills and are successful integrators of various specializations on a team. They are skilled in applying a systemic perspective and developing solutions to complex global resource systems problems using innovativeness and creativity. Future professionals communicate effectively and demonstrate environmental awareness, exhibit an ethical perspective, and display clear analysis of how cultural diversity impacts work both here and abroad. They also recognize opportunities for learning after graduation.

A degree in Global Resource Systems opens the door to employment opportunities in the many businesses and organizations that require globally competent employees.

Student Learning Outcomes

Upon graduation, students should be able to:

Understand sustainable global resource systems by summarizing factors of biological, physical, and social resources in global systems and predicting the consequences of the utilization and distribution of global resources and their systems; develop an attitude of curiosity to continue lifelong learning.

Apply global competency skills by recognizing diverse cultures, reflecting on the value of cultures on global resource systems, and employing skills needed to work in different cultures.

Design ethical and innovative solutions to global challenges by using information literacy skills to define global challenges and creating sustainable solutions to global challenges.

Use communication and leadership skills by communicating effectively with diverse audiences using written, oral, visual, and electronic skills and participating effectively as leaders in teams and organizations.

Curriculum in Global Resource Systems

Administered by a supervisory committee in the College of Agriculture and Life Sciences. Students choose a region of the world to develop an expertise; they choose a language to learn and develop proficiency through the intermediate level; they choose and possess an area of technical expertise by completing an additional major, minor or certificate program offered through the College of Agriculture and Life Sciences; they complete a required internship in an international setting; and they select and complete a senior research project with faculty mentoring.

Total Degree Requirement: 129 cr.

Only 65 cr. from a two-year institution may apply which may include up to 16 technical cr.; 9 P-NP cr. of free electives; 2.00 minimum GPA.

International Perspective: 3 cr.
3 cr. from approved list

U.S. Cultures and Communities (formerly U.S. Diversity): 3 cr.
3 cr. from approved list

Communications Proficiency:

English composition (6 credits with a grade of C or higher; see courses below.)

Speech fundamentals (3 credits with a grade of C or higher; see courses below.)

Communication/Library: 13 cr.

ENGL 1500  Critical Thinking and Communication 3
ENGL 2500  Written, Oral, Visual, and Electronic Composition 3
SPCM 2120  Fundamentals of Public Speaking 3
or AGEDS 3110  Presentation and Sales Strategies for Agricultural Audiences

ENGL 3020  Business Communication 3
or ENGL 3090  Proposal and Report Writing
or ENGL 3140  Technical Communication

LIB 1600  Introduction to College Level Research 1

Total Credits 13

Humanities and Social Sciences: 6 cr.

ECON 1010  Principles of Microeconomics 3
or ECON 1020  Principles of Macroeconomics

Plus three credit hours from approved humanities list 3

Total Credits 6


**Ethics:** 3 cr.
3 cr. from approved list

**Life Sciences:** 7 cr.
- BIOL 2110 Principles of Biology I
- & 2110L and Principles of Biology Laboratory I
- or BIOL 2120 Principles of Biology II
- & 2120L and Principles of Biology Laboratory II

Plus 3 cr. from approved life sciences list at 3000-level or higher

**Mathematical Sciences:** 6 cr.
- MATH 1400 College Algebra (or higher; except MATH 1950, 1960)
- STAT 1010 Principles of Statistics
- or STAT 1040 Introduction to Statistics

**Total Credits** 6-7

**Global Competency:** 15-31 cr.
16 cr. of 1000 and 2000 level of a single WLC language; 15 cr. in global competency courses from an approved list with up to 3 cr. may be earned from a travel course.

**Physical Sciences:** 8 cr.
One of the following:
- CHEM 1630 College Chemistry
  & 1630L and Laboratory in College Chemistry
  or CHEM 1770 General Chemistry I
  & 1770L

One course from the following:
- AGRON 1820 Introduction to Soil Science
- AGRON 2060 Introduction to Weather and Climate
- AGRON 2820 Soil Conservation and Land Use
- GEOL 1010 Environmental Geology: Earth in Crisis
- GEOL 1600 Water Resources of the World

**Total Credits** 8

**Global Resource Systems:** 23 cr.
- GLOBE 1100 Orientation
- GLOBE 2010 Introduction to Global Resource Systems
- 3 credits of GLOBE 2110
- GLOBE 2110 Issues in Global Resource Systems (Each offering is 1 cr., must be repeated for 3 cr.)
- GLOBE 3030 Agricultural, Food and Natural Global Resource Systems
- GLOBE 3040 Socio-Economic Global Resource Systems
- GLOBE 3200 Global Resource Systems Internship Preparation

One of the following: 3-6

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**Technical Concentration:** 15-18 cr.
Satisfied by any of the majors, minors or certificates offered through the College of Agriculture and Life Sciences.

**Electives:**
Sufficient coursework to ensure a total of not less than 129 credits

Global Resource Systems, B.S.

**Freshman**

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<td>AGRON 3420 (or Other CALS Approved Ethics)</td>
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**Global Resource Systems Internship - Global**
**Global Resource Systems Internship - United States**
**Global Resource Systems Senior Project**
**Responses to Global Resource System Challenges**
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