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		3

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

3 cr. from approved list		3

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		3

Life Sciences: 7 cr.

BIOL 2110 & 2110L	Principles of Biology I and Principles of Biology Laboratory I	4
or BIOL 2120 & 2120L	Principles of Biology II and Principles of Biology Laboratory II	
Plus 3 cr. from approved life sciences list at 3000-level or higher		3

Mathematical Sciences: 6 cr.

MATH 1400	College Algebra (or higher; except MATH 1950, 1960)	3
STAT 1010	Principles of Statistics	3-4
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:		5
CHEM 1630 & 1630L	College Chemistry and Laboratory in College Chemistry	
or CHEM 177 & 1770L	General Chemistry I and Laboratory in General Chemistry I	
One course from the following:		3
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	1
GLOBE 2010	Introduction to Global Resource Systems	3
3 credits of GLOBE 2110		3
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	3
GLOBE 3040	Socio-Economic Global Resource Systems	3
GLOBE 3200	Global Resource Systems Internship Preparation	1
One of the following:		3-6
GLOBE 3210	Internship - Global	
GLOBE 3220	Internship - United States	
GLOBE 4010	Senior Project	3
GLOBE 4020	Responses to Global Resource System Challenges	3
Total Credits		**23-26**

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

Fall	Credits	Spring	Credits
GLOBE 1100	1	GLOBE 2010	3
MATH 1400	3	ECON 1010	3
ENGL 1500	3	ENGL 2500	3
LIB 1600	1	CHEM 1630	4
BIOL 2110	3	CHEM 1630L	1
BIOL 2110L	1	STAT 1040	3
Humanities	3		
	15		**17**

Sophomore

Fall	Credits	Spring	Credits
GLOBE 3030	3	GLOBE 3040	3
Language 1010	4	Language 1020	4
GLOBE 2110	1	GLOBE 2110	1
Global Politics or Global Culture	3	AGEDS 3110 or SPCM 2120	3
Technical Area	3	AGRON 1820, 2060, 2820, GEOL 1010, or GEOL 1600	3
Elective	3	Technical Area	3
	17		**17**

Junior

Fall	Credits	Spring	Credits
GLOBE 2110	1	GLOBE 3200	1
Language 2010	4	Language 2020	4
ENGL 3090	3	Global History or Global Culture	3
Global Culture	3	AGRON 3420 (or Other CALS Approved Ethics)	3

U.S. Cultures and Communities (formerly U.S. Diversity)	3	Technical Area	3
General Elective	3	General Elective	3
	17		**17**

Senior

Fall	**Credits**	**Spring**	**Credits**
GLOBE 3210	3	GLOBE 4020	3
GLOBE 4010	3	Global Culture	3
International Perspectives	3	3000 Level or Higher Life Science	3
Global Competency	3	Technical Area	3
Technical Area	3	General Elective	2
	15		**14**