

Progression of Learning - Major in Agricultural Science

Western Degree Outcomes	Knowledge	Literacies and Interdisciplinarity		Communication	Resilience and Life-long Learning	Global and Community Engagement	Inquiry and Creative Thinking	Professionalism and Ethical Conduct	Assessments
Program Learning Outcomes (Short version)	Foundational knowledge of agricultural systems	Identify and locate literature, synthesize information	Collect, organize, analyze agricultural data	Present research plan	Formulate hypotheses and verify scientific validity	Explain importance of local to global agri-health	Question scientific validity	Organization, ethical experimentation practices, collaboration.	
<i>First Year Core (2.5 FCE)</i>									
BIO 1001 a 001	Introduce	Introduce	Introduce	Introduce	Introduce	Introduce	Introduce	Introduce	01,02,03,05,22,25
BIO 1002 b 001	Introduce	Introduce	Introduce			Introduce	Reinforce		01,03,05,22,25
CHEM 1301 a 001	Introduce								01,02,03,05,22,25
CHEM 1302 b 001	Introduce				Introduce				01,02,03,05,22,25
MATH 1225 F 001	Reinforce								01,02,03,05,22,25
<i>Second Year Required (3.0 FCE)</i>									
AGSCI 2581 a 001	Reinforce	Introduce	Reinforce	Introduce	Introduce	Reinforce		Introduce	01,02,03,06
AGSCI 2582 b 001	Reinforce	Reinforce	Reinforce					Introduce	01,02,03,06,11
AGSCI 2290 a 001	Reinforce			Reinforce				Reinforce	01,02,03,10,17
Biology 2590 b 001				Reinforce					01,02,03,05,07
MATH 2110 a 001							Reinforce		01,02,03,13,15
CHEM 2200 a 001					Reinforce				01,02,03
<i>Third & Fourth Year (2.0 FCE)</i>									
AGSCI 3330 F 002	Introduce		Introduce						01,02,03
AGSCI 3336 G 001	Reinforce	Reinforce	Reinforce		Reinforce	Reinforce		Introduce	01,02,03
AGSCI 3501 F 001	Reinforce		Reinforce						01,02,03
AGSCI 3503 G 001	Reinforce	Reinforce		Reinforce	Reinforce		Reinforce	Reinforce	01,02,03
GEO 3100 F 001		Reinforce		Introduce	Introduce			Reinforce	02,03,04,05
AGSCI 3507 F 001	Reinforce	Reinforce	Reinforce	Proficiency	Reinforce	Reinforce	Reinforce	Introduce	23,11
AGSCI 4445 a 001	Proficiency	Reinforce	Proficiency	Proficiency	Reinforce	Proficiency	Proficiency		01,02,03,16
AGSCI 4970 E 001	Proficiency	Proficiency	Proficiency	Proficiency	Proficiency	Proficiency	Proficiency	Reinforce	26,20
<i>Electives (1.0 FCE)</i>									
BIO 2220 a 001	Reinforce			Introduce	Reinforce	Reinforce	Reinforce	Introduce	01,02,03,08,12
BIO 3220 a 001	Reinforce				Proficiency	Reinforce	Reinforce		01,02,03,18
GEO 3300 a 001	Reinforce	Reinforce	Reinforce	Introduce	Proficiency	Reinforce	Proficiency	Reinforce	01,02,03,19,21
GEO 3310 E 001	Reinforce	Reinforce	Reinforce	Introduce	Reinforce	Reinforce	Proficiency	Reinforce	01,02,03,20

Legend:

Introduce	Key ideas, concepts or skills related to the learning outcome are introduced and demonstrated at an introductory level. Instruction and learning activities focus on basic knowledge, skills and/or competencies and entry-level complexity.
Reinforce	Learning outcome is reinforced with feedback; students demonstrate the outcome at an increasing level of proficiency. Instruction and learning activities concentrate on enhancing and strengthening existing knowledge and skills, as well as expanding complexity.
Proficiency	Students demonstrate learning outcome with high level of independence, expertise and sophistication expected upon graduation. Instructional and learning activities focus on and integrate the use of the content or skills in multiple levels of complexity.

Methods of Assessment

01 - Multiple Choice	07 - Seminar Quiz	13 - Policy brief	19 - Group presentation	25 - Participation
02 - Closed or short answer questions	08 - Annotated bibliography	14 - Journaling / Reflective writing	20 - Oral Exam	26 - Thesis
03 - Open or long answer questions	09 - Literature Review	15 - Poster	21 - Peer assessment	
04 - Analytical or problem solving questions	10 - Essay	16 - Portfolio	22 - Lab Report	
05 - Take-home exam	11 - Research Paper	17 - Multimedia	23 - Field Journal	
06 - Lab Quiz	12 - Case study	18 - Individual presentation	24 - Self-Assessment	