

# Agroecology, BS



## University of Wyoming, 2015-16

Freshman Fall Semester			Hrs	Min	Grade	Notes
		USP Communications 1	3		C	C1
		USP First-Year Seminar	3		C	FY
AECL	1000	Agroecology	4			
CHEM	1000	Introductory Chemistry *	4		C	PN; offered fall semester.
		Supporting Bio/Genetics Science Elective **	3			
Credit hours subtotal:			<b>17</b>			

Freshman Spring Semester			Hrs	Min	Grade	Notes
CHEM	2300	Introductory Organic Chemistry	4			Offered spring semester.
LIFE	1010	General Biology	4		C	PN
MATH	1400	College Algebra *	4		C	Q
SOIL	2010	Introduction to Soil Science	4			
Credit hours subtotal:			<b>16</b>			

Sophomore Fall Semester			Hrs	Min	Grade	Notes
		USP Human Culture	3			H
		USP US & Wyoming Constitutions	3			V
AGEC	1010	Principles of Macroeconomics	3			Cross listed with ECON 1010; can substitute AGECE 1020 (Principles of Microeconomics).
COJO	2010	Public Speaking	3		C	C2
LIFE	2023	Biology of Plants and Fungi	4		C	
Credit hours subtotal:			<b>16</b>			

Sophomore Spring Semester			Hrs	Min	Grade	Notes
		USP Human Culture	3			H
LIFE	3400	General Ecology	3			
STAT	2050	Fundamentals of Statistics	4			
		Ag Science Elective ***	3			
		Elective	3			
Credit hours subtotal:			<b>16</b>			

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the *University Catalog* and consult with their academic advisor to plan accordingly.

### University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

### Agroecology Program Notes:

\* Requires MATH ACT  $\geq 23$ , MATH SAT  $\geq 600$ , Math Placement Exam  $\geq 3$ , or  $\geq C$  in Math 0925. (University standard)

\*\* **Supporting Biology/Genetics Science Elective:** Choose one (1) course from the following:

ANSC 1010 Livestock Production (4 hrs)

ENTO 1000 Insect Biology (3 hrs) **OR** ENTO 1001 Insect Biology w/ Lab (4 hrs)

REWM 3020 Nutritional Management of Grazing Ungulates (4 hrs) (NOTE: If a student chooses this option, it is recommended that the course be taken fall semester of the sophomore year.)

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Junior Fall Semester			Hrs	Min Grade	Notes
AECL	3030	Ecological Web: Ecology of Plant Protection	3		
		Ag Science Electives ***	6		
		Supporting Electives ****	6		
Credit hours subtotal:			<b>15</b>		

Junior Spring Semester			Hrs	Min Grade	Notes
AECL	4920	Topics in Agroecology: Research Apprenticeship	2		This is a variable credit course; 1-2 hours may be taken per semester, for a total of 2 hrs; can substitute AECL 4960 (Field Studies).
AECL	4930	Internship in Agroecology	2		This is a variable credit course; 1-3 hours per semester, 6 hours total; can be taken the summer after junior year; can substitute AECL 4960 (Field Studies).
		Ag Science Electives ***	6		
		Supporting Electives ****	6		
Credit hours subtotal:			<b>16</b>		

Senior Fall Semester			Hrs	Min Grade	Notes
		Ag Science Electives ***	6		
		Supporting Electives ****	7		
Credit hours subtotal:			<b>13</b>		

Senior Spring Semester			Hrs	Min Grade	Notes
AECL	4990	Agroecology Seminar	3	C	C3
SOIL	4140	Soil Microbiology	4		Cross listed with MICR 4140.
		Ag Science Electives ***	3		
		Supporting Electives ****	3		
Credit hours subtotal:			<b>13</b>		

**TOTAL CREDIT HOURS: 122**

### Agroecology Program Notes con't:

- Numerous course are available to fulfill various USP requirements; please consult with an academic advisor about courses that might best support a degree in agroecology.

**\*\*\* Ag Science Electives.** Courses should be selected from those with the following course prefixes: ANSC (Animal Science), BOT (Botany), ENTO (Entomology), MOLB (Molecular Biology), PLNT (Plant Sciences), REWM (Rangeland Ecology and Watershed Management), or SOIL (Soil Sciences). • Nine (9) total hours of upper division courses with the same prefix are required to satisfy this requirement for the degree, but they do not have to be taken in the same semester. Any hours beyond the nine (9) fulfill general elective requirements for the degree. • The Ag Science Electives requirement often works well to support a minor.

**\*\*\*\* Supporting Electives.** Courses should be selected from those with the following course prefixes: AGECE (Agricultural Economics), AECL (Agroecology), ANSC (Animal Sciences), BOT (Botany), CHEM (Chemistry), COJO (Communication & Journalism), ENR (Environment & Natural Resources), ENTO (Entomology), FDSC (Food Science), GEOG (Geography), LIFE (Life Sciences), MICR (Microbiology), MOLB (Molecular Biology), PATB (Pathobiology), PLNT (Plant Sciences), REWM (Rangeland Ecology & Watershed Management), SOIL (Soil Sciences), or ZOO (Zoology & Physiology). • Nine (9) hours of Supporting Electives, all upper division (3000-level or higher), are required, but do not all have to be taken in the same semester. Any hours beyond the nine (9) fulfill general elective requirements for the degree. • The Supporting Electives requirement can work well to support a second minor.

- It is also recommended, but not required, that students take two (2) hours of AECL 4930 (Internship in Agroecology) during the summer after their sophomore year.