

Energy Resource Management & Development, BS

Energy Air, Land and Water Management Concentration



University of Wyoming, 2015-16

Freshman Fall Semester			Hrs	Min Grade	Notes
		USP First-Year Seminar	3	C	FY
		USP US & Wyoming Constitutions	3	C	V; recommend ECON 1200 (Economics, Law, and Government).
ENGL	1010	College Composition and Rhetoric	3	C	C1
LIFE	1010	General Biology *	4	C	PN
MATH	2200	Calculus I **	4	C	Q
Credit hours subtotal:			17		

Freshman Spring Semester			Hrs	Min Grade	Notes
ACCT	1010	Principles of Accounting I	3	C	
ECON	1020	Principles of Microeconomics	3	C	H; cross listed with AGECE 1020.
ERS	1300	Oil: Business, Culture, and Power	3	C	Cross listed with ECON 1300; offered spring semester.
ERS	2500	Communication Across Topics in Energy	3	C	C2; can substitute ENGL 2005 (Writing in Technology & the Sciences).
ES	1060	Introduction to Engineering Problem Solving	3	C	
Credit hours subtotal:			15		

Sophomore Fall Semester			Hrs	Min Grade	Notes
CHEM	1000	Introductory Chemistry	4	C	PN; can substitute CHEM 1020 (General Chemistry I) or CHEM 1050 (Advanced General Chemistry I).
LIFE	2023	Biology of Plants & Fungi	4	C	Offered fall semester.
REWM	2000	Principles of Rangeland Management	3	C	
STAT	2050	Fundamentals of Statistics	4	C	Can substitute STAT 2070 (Intro Statistics for the Social Sciences).
Credit hours subtotal:			15		

Sophomore Spring Semester			Hrs	Min Grade	Notes
GEOG	2150	Foundations of GIS & Technology	4	C	
LIFE	3400	General Ecology	3	C	
PHIL	2345	Natural Resource Ethics	3	C	H
SOIL	2010	Introduction to Soil Science	4	C	
		Elective	3	C	Consult with an academic advisor for courses from an approved list.
Credit hours subtotal:			17		

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. • 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 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. • H and PN courses must be taken outside of the major subject, but can be cross-listed with the major.

Energy Resource Management and Development Program Notes:

This degree is a collaborative effort between the School of Energy Resources and the Colleges of Arts and Sciences, Agriculture and Natural Resources, Business, Engineering and Applied Science, and Law, as well as with the Haub School of Environment and Natural Resources. • Academic plans and course schedules may need to be altered if Math Placement scores require Math 0900, 0921, 0925, 1400, 1405, or 1450. • Students must earn a letter grade of C or better in each course and a cumulative gpa of 2.0 or better to graduate. • Students are strongly encouraged to complete an industry internship (a minimum gpa of 3.0 is typically required). Opportunities are also available for undergraduate research, a study abroad experience, or a summer field trip. Please consult with an academic advisor. • Students majoring in Energy Resource Management and Development can earn a double major by completing courses required for the Environment and Natural Resources program. Or students looking to create a focus for their coursework can add a minor to the program. Please consult with an academic advisor about these options.

* Requires MATH ACT \geq 21, MATH SAT \geq 600, Math Placement Exam \geq 2, or \geq C in MATH 0921. (University standard)

** Requires MATH ACT \geq 27, MATH SAT \geq 600, Math Placement Exam \geq 5, or \geq C in MATH 1405 or 1450. (University Standard)

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Junior Fall Semester			Hrs	Min Grade	Notes
AGEC	3400	Agricultural Law	3	C	Must take in fall semester due to course content.
REWM	2400	Range Ecosystems and Plants	4	C	Offered fall semester.
REWM	3100	Principles of Wildland Water Quality	3	C	Offered fall semester.
SOIL	3130	Environmental Quality	3	C	Cross listed with ENR 3130; offered fall semester.
		Elective	3	C	Consult with an academic advisor for courses from an approved list.
Credit hours subtotal:			16		

Junior Spring Semester			Hrs	Min Grade	Notes
AGEC	3750	Natural Resource Planning & Economics	3	C	Offered spring semester of alternate years.
ERS	3010	Air Quality Management	3	C	Offered spring semester.
MGT	3210	Management and Organization	3	C	
REWM	4710	Watershed Water Quality Management	3	C	Offered spring semester.
		Elective	3	C	Consult with an academic advisor for courses from an approved list.
Credit hours subtotal:			15		

Junior Summer Semester			Hrs	Min Grade	Notes
		Practicum ***	3	S	
Credit hours subtotal:			3		

Senior Fall Semester			Hrs	Min Grade	Notes
AGEC	4550	Negotiation Analysis	3	C	Cross listed with ENR 4550; offered fall semester.
ENR	4500	Risk Analysis	3	C	
ENR	4501	Risk Analysis Computer Laboratory	1	C	Concurrent enrollment in ENR 4500 required.
ENR	4750	ENR Law and Policy	3	C	Offered fall semester.
GEOG	4200	Introduction to Geographic Information Systems	4	C	Offered fall semester.
REWM	4200	Reclamation of Drastically Disturbed Lands	3	C	Offered fall semester.
Credit hours subtotal:			17		

Senior Spring Semester			Hrs	Min Grade	Notes
AGEC	4450	Negotiation	3	C	Cross listed with ENR 4450; offered spring semester.
DSCI	4260	Project Management	3	C	Offered spring semester.
ERS	4900	Energy Resource Management Capstone	3	C	C3; offered spring semester.
FIN	3250	Corporate Finance	3	C	
REWM	4580	Rangeland Restoration Ecology	3	C	Offered spring semester.
Credit hours subtotal:			15		

TOTAL CREDIT HOURS: 130

Energy Resource Management and Development Program Notes con't:

*** **Practicum.** Complete any combination of courses below to equal three (3) credit hours:

- ENR 3700 Wyoming Conservation Corps Practicum (1-2 hrs)
- ERS 4960 Energy Field Studies (2 hrs)
- ERS 4965 Undergraduate Research (1-3 hrs)
- ERS 4970 Internship (1-3 hrs)
- ERS 4975 Global Experience in Energy (2-4 hrs)