Environmental, Energy, and Land Management, B.S.

Degree Offered

· Bachelor of Science

Nature of the Program

The Bachelor of Science in Environmental, Energy, and Land Management is designed to equip students with the skills and knowledge needed to lead in the dynamic fields of land development, environmental stewardship, and energy innovation. This interdisciplinary program explores the intricate connections between business, environmental science, and land management, including nature-based climate initiatives, energy production, and infrastructure development. With national accreditation and insights from our industry advisory board, students receive a high-quality, relevant education that prepares them for diverse career paths in private business, government, consulting, or entrepreneurial ventures in the environmental and energy sectors. The program offers comprehensive training in identifying, leasing, and purchasing lands for development, and navigating the ethical, regulatory, and environmental frameworks crucial to success. Through hands-on learning experiences and projects that mirror real-world challenges, students gain practical expertise and a strong foundation to make a meaningful impact on the world through sustainable and innovative land and energy solutions.

General Education Foundations

Please use this link to view a list of courses that meet each GEF requirement. (http://registrar.wvu.edu/gef/)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.

Code	Title	Hours
General Education Foundations		
F1 - Composition & Rhetoric		3-6
ENGL 101 & ENGL 102	Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research	
or ENGL 103	Accelerated Academic Writing	
F2A/F2B - Science & Technology		4-6
F3 - Math & Quantitative Reasoning		3-4
F4 - Society & Connections		3
F5 - Human Inquiry & the Past		3
F6 - The Arts & Creativity		3
F7 - Global Studies & Diversity		3
F8 - Focus (may be satisfied by com	pletion of a minor, double major, or dual degree)	9
Total Hours		31-37

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.

Curriculum Requirements

Code	Title	Hours
University Requirements	40	
Environmental, Energy, and L	and Management Major Requirements	80
Total Hours		120

University Requirements

Code	Title	Hours
General Education Four	ndations (GEF) 1, 2, 3, 4, 5, 6, 7, and 8 (31-37 Credits)	
Outstanding GEF Requirements 1, 4, 5, 6, 7, and 8		24
ANRD 191	First-Year Seminar	1

Business Perspective

Select one of the following minors:

15

Agribusiness Management					
General Business					
Or select five of the following	a:				
ECON 200	Survey of Economics				
BCOR 320	Legal Environment of Business	•			
BCOR 330	-	Information Systems and Technology Principles of Finance			
BCOR 340					
BCOR 360	Supply Chain Management				
BCOR 370	Principles of Management				
BCOR 380	Business Ethics				
ARE 110	Agribusiness Accounting				
ARE 482		Enterprise Operation Law			
ARE 204	Agribusiness Management				
ARE 431	Marketing Agricultural Products				
ARE 461	Agribusiness Finance				
Total Hours	, ig., 20., 1000 1 a., 100				
SUGGESTED PLAN	LOE STUDY				
	10131001				
First Year					
Fall	Hours	Spring	Hours		
ENGL 101 (GEF 1)		3 ENLM 150 or ARE 201			
MATH 124 (GEF 3)		3 Second Earth Science Choice (GEF 8)			
SUST 101		4 GEF 5			
& 101L (GEF 2)		4.055.0			
ANRD 191		1 GEF 6			
GEF 8		3 GEF 8			
Second Year		• •			
Fall	Hours	Spring	Hours		
ENGL 102 (GEF 1)		3 ENLM 390			
ENLM 200		3 Environmental Course			
ENLM 220		3 Business Choice			
Business Choice		3 GEF 7			
Environmental Course		3 General Elective			
		15	,		
Third Year					
Fall	Hours	Spring	Hours		
ENLM 300		3 ENLM 400			
Business Choice		3 Business Choice			
Environmental Course		3 Environmental Course			
Spatial Systems Choice		3 Environmental Course			
GEF 4		3 General Elective			
Facility Va		15	•		
Fourth Year		Our days			
Fall	Hours	Spring	Hours		
ENLM 420		3 ENLM 450			
ENLM 491		3 Environmental Course			
Spatial Systems Choice		3 Environmental Course			
Business Choice		3 General Elective			

Total credit hours: 120

Major Learning Outcomes

ENVIRONMENTAL, ENERGY, AND LAND MANAGEMENT

This B.S. degree program and major will provide undergraduate students a knowledge-based framework that will develop skillsets essential to a successful career in land and resource management. Upon graduation from this degree program and major, students will be able to:

- · Design operational plans that integrate industry and public stakeholder goals for sustainable land development
- Evaluate the types of interests in land resource ownership and demonstrate an understanding of the ownership, legal, and business issues related to environmental and energy management
- Explain and negotiate the key elements of energy- and environmental-related leases, contracts, and operating agreements under accepted standards of practice
- Develop budgets and financial projections associated with environmental and energy development and the economics related to multiple energy production systems
- Demonstrate critical thinking skills and problem solving abilities and effectively communicate with stakeholders, peers, and other professionals in both written and oral forms.