## **GLOBAL DISEASE ECOLOGY** (B.S.)

Required course work includes the university requirements (see regulation J-3 (https://catalog.uidaho.edu/general-requirements-academic-procedures/j-general-requirements-baccalaureate-degrees/#j3)), the general requirements for the B.S. degree, and:

Code	Title	Hours		
Global Disease Ed	cology Core Courses			
AVS 109	The Science of Animals that Serve Humanity	4		
BIOL 114	Organisms and Environments	4		
BIOL 115	Cells and the Evolution of Life	3		
BIOL 115L	Cells and the Evolution of Life Laboratory	1		
CHEM 111	General Chemistry I	3		
CHEM 111L	General Chemistry I Laboratory	1		
CHEM 112	General Chemistry II	4		
CHEM 112L	General Chemistry II Laboratory	1		
ENGL 102	Writing and Rhetoric II	3		
ENT 322	General and Applied Entomology	4		
PLSC 102	The Science of Plants in Agriculture	3		
PHIL 103	Introduction to Ethics	3		
SOC 101	Introduction to Sociology	3		
SOIL 205	The Soil Ecosystem	3		
STAT 251	Statistical Methods	3		
MATH 160	Survey of Calculus	4		
or MATH 170	Calculus I			
Choose one of th	e following:	3		
CHEM 275	Carbon Compounds			
CHEM 277	Organic Chemistry I			
Choose one of th	e following:	3		
ECON 201	Principles of Macroeconomics			
ECON 202	Principles of Microeconomics			
Choose one of th	e following:	3		
BIOL 310	Genetics			
GENE 314	General Genetics			
Choose one of th	e following:	4		
EPPN 154 & EPPN 155	Microbiology and the World Around Us and Microbiology and the World Around Us: Laboratory			
BIOL 250 & BIOL 255	General Microbiology and General Microbiology Lab			
Choose one of th	e following:	3		
BIOL 300	Survey of Biochemistry			
BIOL 380	Biochemistry I			
Required Courses				
AVS 268	Companion Animal Diseases	2		
AVS 371	Anatomy and Physiology	3		
BIOL 312	Molecular and Cellular Biology	3		
BIOL 444	Genomics	3		
BIOL 447	Virology	3		
ENT 438	Pesticides in the Environment	3		

<b>C</b> [	PPN 110	Introduction to Global Disease Ecology	2
	PPN 220	Global Disease Ecology Seminar	2
_	SC 207	<b>5</b> ,	3
	ective	Introduction to Biotechnology	3
	noose one of the	o following:	3
Ci	BIOL 314	· ·	3
	BIOL 314	Ecology and Population Biology Systems Biology	
Ck	noose one of the	•	3
CI	ENGL 207	Persuasive Writing	3
	ENGL 207	Business Writing	
	ENGL 316	Environmental Writing	
	ENGL 310	Technical Writing II	
	ENGL 317	•	
Ch	noose one of the	Science Writing	3
CI	SOIL 425	•	3
	SUIL 425 ENT 441	Microbial Ecology	
CI.		Insect Ecology	2
Cr	noose one of the	3	3
	ENT 411	Veterinary & Medical Entomology	
	ENT 476	Medical Parasitology	
Se		om the following:	3
	AGED 263	History of U.S. and World Agriculture	
	AGED 406	Exploring International Agriculture	
	AGED 407	Global Agricultural & Life Sciences Systems	
	AGED 450	Leading People and Teams	
	AGED 451	Communicating in Agriculture	
	AGEC 356	Agricultural and Rural Policy	
	AGEC 477	Law, Ethics, and the Environment	
	ANTH 462	Human Issues in International Development	
	CLDR 360	Leadership and Community Dynamics	
	CLDR 480	Change and Power in a Global Society	
	COMM 101	Fundamentals of Oral Communication	
	AGED 101	Verbal Communication in Agriculture, Food, and Natural Resources	
	COMM 335	Intercultural Communication	
	ENVS 448	Drinking Water and Human Health	
	HIST 379	History of Science II: 1700-Present	
	HIST 380	Disease and Culture: History of Western Medicine	
	HIST 424	American Environmental History	
	IS 322	International Environmental Governance	
	PSYC 473	Blood and Airborne Pathogens: HIV/STDs/ Hepatitis/TB	
	SOC 340	Environmental Sociology and Globalization	
	SOC 341	Science, Technology, and Society	
	SOC 350	Food, Culture, and Society	
Se	elect 3 credits fr	om the following:	3
	AVS 471	Animal Disease Management	
	BIOL 432	Immunology	
	FISH 424	Fish Health Management	
	GEOG 313	Global Climate Change	
	GEOG 350	Sustainability of Global Development	
	GEOG 360	Population Dynamics and Distribution	
	GEOG 430	Climate Change Ecology	
	·	3 37	

PLP 415	Plant Pathology			
Total Hours		108		
Courses to total 120 credits for this degree.				
Fall Term 1		Hours		
ENGL 101	Writing and Rhetoric I	3		
AVS 109	The Science of Animals that Serve Humanity	4		
MATH 143	Precalculus I: Algebra	3		
PHIL 103	Introduction to Ethics	3		
SOC 101	Introduction to Sociology	3		
	Hours	16		
Spring Term 1				
BIOL 114	Organisms and Environments	4		
COMM 101 or AGED 101	Fundamentals of Oral Communication or Verbal Communication in Agriculture, Food, and Natural Resources	3		
ENGL 102	Writing and Rhetoric II	3		
EPPN 110	Introduction to Global Disease Ecology	2		
MATH 160	Survey of Calculus	4		
	Hours	16		
Fall Term 2				
CHEM 111	General Chemistry I	3		
CHEM 111L	General Chemistry I Laboratory	1		
PLSC 102	The Science of Plants in Agriculture	3		
ECON 201	Principles of Macroeconomics	3		
or ECON 202	or Principles of Microeconomics	_		
EPPN 220	Global Disease Ecology Seminar	2		
	Hours	12		
Spring Term 2				
BIOL 115	Cells and the Evolution of Life	3		
BIOL 115L	Cells and the Evolution of Life Laboratory	1		
CHEM 112	General Chemistry II	4		
CHEM 112L	General Chemistry II Laboratory	1		
STAT 251 EPPN 154	Statistical Methods  Microbiology and the World Around Us	3		
EPPN 155	Microbiology and the World Around Us: Laboratory	1		
LFFN 133	Hours	16		
Fall Term 3	riouis	10		
BIOL 310	Genetics	3		
AVS 371	Anatomy and Physiology	3		
ENT 322	General and Applied Entomology	4		
PLSC 207	Introduction to Biotechnology	3		
	207 OR ENGL 313 OR ENGL 316 OR ENGL 317 OR ENGL 318)	3		
	Hours	16		
Spring Term 3				
BIOL 312	Molecular and Cellular Biology	3		
CHEM 277	Organic Chemistry I	3		
or CHEM 275	or Carbon Compounds			
EPPN 440	Research Practicum	3		
SOIL 205	The Soil Ecosystem	3		
BIOL 314 OR (ENGL	207 OR ENGL 313 OR ENGL 316 OR ENGL 317 OR ENGL 318)	3		
Humanistic and Artis	stic Ways of Knowing Course	3		
Fall Term 4	Hours	18		
BIOL 300	Survey of Biochemistry	3		
or BIOL 380	or Biochemistry	3		
BIOL 444	Genomics	3		
ENT 441	Insect Ecology	3		
AVS 268	Companion Animal Diseases	2		
American Diversity C		3		
	Hours	14		

## Spring Term 4

Total Hours		
	Hours	15
AVS 471 OR BIOL 432 OR FISH 424 OR GEOG 313 OR GEOG 350 OR GEOG 360 OR GEOG 430 OR PLP 415		
PLP 411 or BIOL 447	Viruses and Virus Diseases of Plants or Virology	3
ENT 476 or ENT 411	Medical Parasitology or Veterinary & Medical Entomology	3
ENT 438	Pesticides in the Environment	3
AGED 406	Exploring International Agriculture (or other International Course)	3

- Global Disease Ecology students will learn to recognize, define and differentiate the causes and types of human, animal and plant diseases and apply this information using diverse thinking strategies to address real-world issues.
- 2. Global Disease Ecology students will be able to integrate information across the scientific disciplines including to implement disease control practices, solve problems, and make decisions that impact the sustainability of human health.
- 3. Global Disease Ecology students will be able to convey knowledge using verbal and non-verbal methods of communication in a respectful manner that reflects our complex society.