ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCE, BACHELOR OF SCIENCE (548P, 548)

Program Coordinator

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The undergraduate degree program in environmental and occupational health science prepares the graduating student for entry level careers of environmental compliance and protection, occupational safety and health, environmental health and safety, and environmental science. Numerous jobs are available with government agencies, environmental consulting firms, industries, local governments, and non-profit organizations. Courses in the program are focused on basic sciences, environmental science, occupational safety and health, and environmental health. Requirements of the program develop the application of basic scientific principles to the solution of environmental and occupational problems that prepare students for diverse career opportunities.

Program Requirements (70 hours)

A baccalaureate degree requires a minimum of 120 unduplicated semester hours. More information can be found at www.wku.edu/ registrar/degree_certification.php. (https://www.wku.edu/registrar/ degree_certification.php)

Students who began WKU in the Fall 2014 and thereafter should review the Colonnade requirements located at: https://www.wku.edu/ colonnade/colonnaderequirements.php. (https://www.wku.edu/ colonnade/colonnaderequirements.php)

Required Courses

Code	Title	Hours
ENV 120	Introduction to Occupational Safety and Health	3
ENV 221	Safety and Health Standards, Codes, and Regulations	3
ENV 280	Introduction to Environmental Science	3
ENV 321	Fundamentals of Industrial Hygiene	3
ENV 323	Fundamentals of Industrial Hygiene Laboratory	1
ENV 360	Air Pollution Control	3
ENV 365	Air Pollution Control Laboratory	1
ENV 380	Principles of Environmental Toxicology	3
ENV 410	Water Treatment Processes	3
ENV 411	Water Treatment Processes Laboratory	1
ENV 423	Safety Program Management	3
ENV 460	Environmental Management	3
ENV 474	Environmental Risk Assessment	3

Total Hours		70
MFGE 310	Safety in Industry	
PH 456	Independent Study in Health and Safety	
ENV 402	Worksite Health Promotion	
ENV 495	Environmental Measurement	
ENV 485	Practical Experiences in Environmental and Occupational Health Science	
ENV 475	Selected Topics in Env	
ENV 375	Introduction to Water Resources	
ENV 322	Physical Hazards Recognition and Control I	
following list:		5
Select nine hours of adv	visor consent electives from the	9
PHYS 232	Laboratory for Physics and Biophysics I	1
PHYS 231	Introduction to Physics and Biophysics I	3
BIOL 208	General Microbiology Laboratory	1
BIOL 207	General Microbiology	3
CHEM 108	Fundamentals of Organic Chemistry Laboratory	1
CHEM 107	Fundamentals of Organic Chemistry	3
PH 385	Environmental Health	3
PH 384	Introduction to Epidemiology	3
PH 383	Biostatistics in the Health Sciences	3
ENV 491	Internship in Environmental, Health, and Safety	3
ENV 486	Senior Environmental Health Seminar	1
ENV 480	Hazardous and Solid Waste Management	3

Additional Courses

Code	Title	Hours
COMM 145	Fundamentals of Public Speaking and Communication	3
ECON 202	Principles of Economics (Micro)	3
BIOL 120 & BIOL 121	Biological Concepts: Cells Metabolism and Genetics and Biological Concepts: Cells, Metabolism, and Genetics Lab	4
CHEM 105	Fundamentals of General Chemistry	3
CHEM 106	Fundamentals of General Chemistry Laboratory	1
CHEM 116	Introduction to College Chemistry	3
MATH 116	College Algebra	3
MATH 117	Trigonometry	3
GEOL 111	The Earth	3
Total Hours		26

Some of these required courses also fulfill the Colonnade subject area requirements.

All courses listed above require a minimum grade of "C."

Finish in Four Plan

First Year			
Fall	Hours	Spring	Hours
COMM 145		3 ENG 100	3
MATH 116	:	3 HIST 101 or HIST 102	3
ENV 280	:	3 ENV 120	3
CHEM 116	:	3 CHEM 105 & CHEM 106	4
GEOL 111	:	3 ECON 202	3
	1	5	16
Second Year			
Fall	Hours	Spring	Hours
ENG 200	:	3 Colonnade - Connections (Local to Global)	3
Colonnade - Connections (Systems)	:	3 World Language (if needed)	3
Colonnade - Arts & Humanities	:	3 BIOL 207 & BIOL 208	4
MATH 117	:	3 Colonnade - Connections (Social & Cultural)	3
BIOL 120 & BIOL 121		4 CHEM 107 & CHEM 108	4
	10	ô	14
Third Year			
Fall	Hours	Spring	Hours
Fall PHYS 231 & PHYS 232		Spring 4 ENV Major Elective	Hours 3
PHYS 231			
PHYS 231 & PHYS 232		4 ENV Major Elective 3 ENV 321	3
PHYS 231 & PHYS 232 ENG 300	•	4 ENV Major Elective 3 ENV 321 & ENV 323	3
PHYS 231 & PHYS 232 ENG 300 ENV 221	: :	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380	3 4 3
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383	: :	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322	3 4 3 3 3
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383	-	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322	3 4 3 3 3 3
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383 PH 385	-	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322	3 4 3 3 3 3
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383 PH 385 Fourth Year Fall ENV 410	- - - - - - - - - - - - - - - - - - -	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322 5	3 4 3 3 3 16
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383 PH 385 Fourth Year Fall	- - - - - - - - - - - - - - - - - - -	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322 5 Spring	3 4 3 3 3 16 Hours
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383 PH 385 Fourth Year Fall ENV 410	: : : : : : : : : : : : : : : : : : :	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322 5 Spring	3 4 3 3 3 16 Hours
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383 PH 385 Fourth Year Fall ENV 410 & ENV 411	- - - Hours - -	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322 5 Spring 4 ENV 474 3 ENV 360	3 4 3 3 3 16 Hours 3
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383 PH 385 Fourth Year Fall ENV 410 & ENV 411 ENV 423	Hours	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322 5 Spring 4 ENV 474 3 ENV 360 & ENV 365	3 4 3 3 3 16 Hours 3 4
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383 PH 385 Fourth Year Fall ENV 410 & ENV 411 ENV 423 ENV 460	Hours	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 ENV 380 3 ENV 322 5 Spring 4 ENV 474 3 ENV 360 & ENV 365 3 ENV 491	3 4 3 3 3 16 Hours 3 4 3
PHYS 231 & PHYS 232 ENG 300 ENV 221 PH 383 PH 385 Fourth Year Fall ENV 410 & ENV 411 ENV 423 ENV 460	Hours	4 ENV Major Elective 3 ENV 321 & ENV 323 3 ENV 380 3 PH 384 3 ENV 322 5 Spring 4 ENV 474 3 ENV 360 & ENV 365 3 ENV 491 3 ENV 486	3 4 3 3 3 3 16 Hours 3 4 3 3 3

Total Hours 120