

BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH

[Environmental health](#) focuses on the study of how people interact with their environment—the air and water around us, the plants and animals we encounter, and the workplaces and homes where we spend much of our lives. The field is broad, encompassing the direct effects of the environment on human health, and the factors that adversely affect the ecological balances essential to human health and environmental quality.

Core Courses

APM 105

APM 106

APM 210

EFB 101

EFB 102

EFB 103

EFB 104

EFB 303

EFB 360

EFB 400

EHS 250

EHS 320

EHS 350

EHS 360

EHS 420

EHS 440

EHS 480

ENS 132

ENS 470

ENS 494

ESF 200

EWP 190

FCH 150

FCH 151

FCH 152

FCH 153

FCH 221

FCH 222

FCH 223

FCH 224

FCH 399

NSD 114

2

EPH 101

4

AND

EPH 102

EPH 103

4

AND

EPH 104

NOTE: PHY 101 and PHY 102 both include a lab.

General Education Electives

Course	Codes*	Credits
General Education Course in two of the following categories: US History & Civic Engagement, The Arts, Social Sciences, World History and Global Awareness, World Languages	G	6
General Education Course in Diversity, Equity, Inclusion and Social Justice	G	3

Focus Area Electives

21 credits required for breadth and depth of knowledge.

Breadth: 3 credits from each of 3 focus areas (total of nine credits)

Depth: 12 credits from a fourth focus area.

NOTE: Some Focus Area Elective courses may have prerequisites, effectively exceeding the 126 minimum credit requirement for the B.S.

NOTE: Only three credits total from the 21 can be from a 200-level course or lower without prior approval of the curriculum coordinator.

A. Built Environment

Courses

EST 133

EST 220

EST 231

LSA 326

B. Geospatial Technology

Courses

ERE 365

ERE 371

ERE 553

ERE 566

ESF 300

C. Soils

Courses

ERE 511

FOR 332

FOR 345

D. Water and Wastewater

Students interested in this focus area are encouraged to take APM205 and APM206 in place of APM105 and APM106, as the higher level calculus is required for many of the courses; also

students interested in this focus area are encouraged to take PHY211/221 and PHY212/222 in place of PHY101 and PHY102, as the higher level physics is required for many of the courses.

Courses

CEE 442		4
EAR 401		3
EAR 420	Contaminant Hydrogeology	3
EFB 496		
EFB 505	Microbial Ecology	2
ERE 275		
ERE 339		
ERE 340		
ERE 440		
ERE 480		
FCH 360		
FCH 510		
FOR 487		

E. Solid/Hazardous Materials and Waste Management

Courses

CEE 341		3
EFB 496		
ERE 275		
ERE 340		
ERE 465		
ERE 468		
ERE 480		
FOR 487		

F. Hydrogeology

Courses

EAR 401		3
EAR 420	Contaminant Hydrogeology	3
ERE 480		
ENS 496	Hydrology	3
	Human Health	
ERE 508		
FOR 340		
FOR 345		
FOR 442		

G. Food Protection

Courses

FST 102		3
FST 307		3
FST 402		3
FST 421	Morality of a Meal: Food Ethic	3
NSD 114		3
NSD 115		3
NSD 225		3
NSD 427		3
NSD 455		3
NSD 481		3
NSD 555		3

H. Public Health

Courses

PHP 221		3
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PHP 309		3
FST 403		3
PHP 302		3
PHP 305		3
PHP 313		3
PHP 306		3
PHP 318		3
PHP 414		3
PHP 415		3
PHP 437	LGBTQ Health	3
	Well Being	
PHP 438	Native American Health Promotion	3
PHP 462		3
PHP 463		3

I. Pre Medical Track

Students taking this track as their depth area must also select courses from 4 other focus areas, rather than three other focus areas for their breadth. This focus area does not count as one of the three breadth areas, but courses can count as Open Electives.

Courses

BTC 498

EFB 307

EFB 308

EFB 325

EFB 385

FCH 530

FCH 532

Open Electives

Six (6) Credit hours. Students can take more than the 4 hours of open electives, but need to be aware that those extra credits will not substitute for required courses. Students are encouraged but not required to use some of their open electives to do research projects either on or off campus within the EHS framework. Below are listed some courses that might be of interest to EHS students.

EST 203 Introduction to Sociology
EST 220 Urban Ecology
EST 245 Foundations of Environmental Communication
EST 321 Government and the Environment
EST 361 Diverse Histories of the American Environmental Movement
EST 390 Social Processes and the Environment
EST 395 Public Communication of Science and Technology
EST 426 Community Planning and Sustainability

EFB 217 Peoples, Plagues, and Pests
EFB 352 Entomology
EFB 453 Parasitology

FOR 489 Natural Resources Law and Policy

Total Minimum Credits For Degree: 126

NOTE: For students considering a career in Environmental Risk Assessment or Environmental Remediation, it is strongly recommended that they that take:

ENV 165 Hazardous Waste Operations and Emergency Response (2 Credits) at Onondaga Community College over Winter Break. This course culminates with the awarding of the 40 hour HAZWOPER Certification, which is required by OSHA and many potential internship sponsors or employers.

