

# ENV: HEALTH

## Courses

### ENV 102. Humans and the Environment. 3 Credits.

A study of the ability of humans to survive and maintain their life quality considering the limited resources and recycling capacity of planet Earth. Note: Only one of the following courses can be completed for credit: SCB 102, ENV 102, or ESS 102.

Gen Ed Attribute: Interdisciplinary Requirement, Sustainability Pathway

Distance education offering may be available.

Equivalent courses: ESS 102, SCB 102

### ENV 199. Health Transfer Credits. 1-10 Credits.

Transfer Credits

Repeatable for credit.

### ENV 230. Hazardous Waste Operations and Emergency Response. 3 Credits.

Provides students with the training required by the Occupational Safety and Health Administration and the Environmental Protection Agency to work sites where hazardous wastes and/or materials may be stored, spilled, transported or used.

### ENV 324. Environmental Sustainability. 3-4 Credits.

This course examines environmental sustainability through the interconnected lenses of social equity, economic vitality, and environmental protection. Students will identify solutions for unsustainable patterns and develop innovative thinking skills related to resource consumption, biodiversity conservation, human health and education, environmental justice, and the sustainable balance of all involved. Attention to these factors paves the way for humans and the environment and economy to thrive together rather than compete or merely survive.

Gen Ed Attribute: Speaking Emphasis, Sustainability Pathway

### ENV 435. Environmental Health Workshop. 1-6 Credits.

Special workshops on contemporary environmental health issues. Topics announced at time of offering.

Repeatable for credit.

### ENV 445. Risk Assessment. 3 Credits.

An examination of human health and ecological risk assessment with emphasis on exposure estimation.

ENV 445 Prerequisite: Successful completion of ENV 102 with minimum grade of D-.

### ENV 447. Environmental Regulations. 3 Credits.

Prepares students for working with federal and Pennsylvania environmental regulations. Emphasizes use and development of Internet regulatory resources. Specific discussions and exercises related to various regulatory agencies are included.

ENV 447 Prerequisite: Successful completion of ENV 102 with minimum grade of D-.

### ENV 450. Hazardous and Solid Waste. 3 Credits.

Sources, characteristics, and amounts of solid and hazardous wastes and their implications for human health. Methods of collection, handling, disposal, and recycling.

ENV 450 Prerequisite: Successful completion of ENV 102 with minimum grade of D-.

### ENV 451. Environmental Toxicology. 3 Credits.

An investigation of the health problems caused by toxic substances in the workplace and in the general environment.

ENV 451 Prerequisite: Successful completion of BIO 204 and ENV 102, with minimum grades of D-. Corequisite: CHE 230.

### ENV 452. Industrial Hygiene I. 3 Credits.

This course is an investigation of the anticipation, recognition, evaluation and control of airborne and dermal health hazards in the workplace. Hazard communication and regulatory compliance are also addressed.

ENV 452 Prerequisite: Successful completion of ENV 102 with minimum grade of D-.

### ENV 453. Occupational Safety. 3 Credits.

A study of the recognition, evaluation, and control of safety hazards in the work environment.

ENV 453 Prerequisite: Successful completion of ENV 102 with minimum grade of D-.

### ENV 455. Environmental Health Seminar. 3 Credits.

This course is designed to provide the opportunity to conduct a fundamental investigation of an environmental health issue and to allow for presentation of project results as a written manuscript and as a poster. Concepts of hypothesis formation, experimental design, data collection, data analysis, and interpretation of results are part of the in-depth investigation on topics of significance to the environmental health field. Topics will vary from year to year.

ENV 455 Prerequisite: Senior standing. Student must major in Environmental Health.

Gen Ed Attribute: Writing Emphasis (select both)

### ENV 456. Environmental Health Internship. 3-12 Credits.

Field placement with an environmental health department in an industry, consulting firm, or government agency.

ENV 456 Prerequisite: Senior standing. Student must major in Environmental Health.

Minimum 2.50 cumulative GPA.

Repeatable for credit.

### ENV 460. Industrial Hygiene II. 3 Credits.

This course is an investigation of the anticipation, recognition, evaluation and control of ergonomic problems, noise, thermal stress, and radiation in the workplace. Worker training strategies related to occupational health and safety are also addressed.

ENV 460 Prerequisite: Successful completion of ENV 102 with minimum grade of D-.

### ENV 462. Water Quality and Health. 3 Credits.

An examination of the quality and quantity requirements of surface and subsurface water resources used for drinking water supplies. Laboratory included.

ENV 462 Prerequisite: Successful completion of ENV 102 with minimum grade of D-.

### ENV 470. Emergency Preparedness. 3 Credits.

This course addresses emergency preparedness for schools, businesses, communities, and counties. Types of emergencies considered include natural disasters, failures of technology (spills, accidents and explosions) and acts of war or terrorism.

### ENV 475. Bioterrorism, Bio-Crises, & Public Health. 3 Credits.

This course addresses the protection of the public's health and the health of workers such as first responders from biological agents that cause disease and/or death. Communication and coping strategies, group interaction, case studies, and the use of Internet resources will be integrated with response strategies, measurement techniques, personal protection and decontamination procedures.