

ENVIRONMENTAL HEALTH (EHS)

EHS 225. African/African-Amer Hlth Iss. (3 Credits)

I. Cross listed as AFA 225. Provides the student with an understanding of the medical and public health issues relevant to the maintenance of health conditions both in the United States and Africa. Credit will not be awarded to students who have credit for AFA 225.

EHS 230. Recreational Health. (3 Credits)

II. Provides the student with an understanding of the biological, chemical and physical threats to health and life from the recreational, amusement, travel and tourist environments.

EHS 280. One Health: Global Environmental Public Health. (3 Credits)

A. Elements of global environmental health from a One Health Perspective, including water and waste treatment, air pollution, food sanitation, vector control, solid waste disposal, and general sanitation problems.

EHS 290. Seminar in Environ Health. (2 Credits)

A. Prerequisite: departmental approval. Discussion and analysis of literature related to selected current environmental health problems.

EHS 300. Water and Health. (4 Credits)

I, II. Prerequisite: ENG 102 or 102R, 105(B), or HON 102, EHS 280, BIO 320 or MLS 209 and MLS 211. Drinking water safety in both individual private systems and larger public systems. Maintenance of raw water quality, water purification, delivery systems, and surveillance. Techniques for collection, treatment, and disposal of sewerage also discussed. Credit will not be awarded for students who have credit for EHS 300W.

EHS 300W. Water and Health. (4 Credits)

I, II. Prerequisite: ENG 102 or 102R, 105(B), or HON 102, EHS 280, BIO 320 or MLS 209 and MLS 211. Drinking water safety in both individual private systems and larger public systems. Maintenance of raw water quality, water purification, delivery systems, and surveillance. Techniques for collection, treatment, and disposal of sewerage also discussed. Credit will not be awarded for students who have credit for EHS 300.

EHS 335. Hazardous and Solid Waste Management. (3 Credits)

II. Prerequisites: CHE 111, 111L and EHS 280; or departmental approval. Nature of toxic and hazardous wastes and methods for their disposal to protect health and the environment and to prevent contamination of groundwater. The environmental health and safety aspects of solid waste collection, treatment and disposal, and regulations governing waste management are also discussed.

EHS 340. Total Worker Health Principles. (3 Credits)

I, II. Prerequisites: BIO 111, CHE 111, 111L and EHS 280; or departmental approval. The impact of the workplace on safety and health, and methods for avoiding work-related illnesses. Emphasis will be on the evaluation and the control of the work environment to protect worker health.

EHS 345. Applied Total Worker Health. (4 Credits)

II. Prerequisite: EHS 340 or departmental approval. In-depth discussion of the chemical and physical hazards of the workplace and their evaluation and to provide hands-on experience in industrial hygiene sampling and analysis.

EHS 349. Applied Learning in Environmental Health Science. (0.5-8 Credits)

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

EHS 349A. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

EHS 349B. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

Work in placements related to academic studies.

EHS 349C. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

Work in placements related to academic studies.

EHS 349D. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

Work in placements related to academic studies.

EHS 349E. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

Work in placements related to academic studies.

EHS 349F. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

Work in placements related to academic studies.

EHS 349G. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

Work in placements related to academic studies.

EHS 349H. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

Work in placements related to academic studies.

EHS 349I. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

Work in placements related to academic studies.

EHS 349J. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

EHS 349K. Cooperative Study: Environmental Health Science. (1-8 Credits)

EHS 349L. Cooperative Study: Environmental Health Science. (1-8 Credits)

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

EHS 349M. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

EHS 349N. Cooperative Study: Environmental Health Science. (0.5-8 Credits)

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

EHS 355. CBR Terrorism & Environmental Health. (3 Credits)

II. This course will provide students with environmental health principles required to protect individuals and communities in times of war, general emergencies and disaster, both natural and human, due to chemical, biological and radioactive threats.

EHS 360. Air Quality & Climate Change. (4 Credits)

A. Prerequisites: CHE 112, 112L and EHS 280; or departmental approval. Health effects of air pollution, including a discussion of the primary sources of airborne pollutants, their transport and transformation, the control of air pollution, state and national standards.

EHS 370. Environmental Disease Detectives: Epidemiology. (3 Credits)

I, II. Prerequisites: EHS 280 and STA 215; or departmental approval.

The use of data to define the health effects of exposed individuals or populations to hazardous materials and situations.

EHS 380. Food Security and Sanitation. (3 Credits)

I, II. Prerequisites: EHS 280 or departmental approval. A study of the health effects of food-borne disease, including an in-depth discussion of the physical, chemical, and biological contaminants that cause an estimated 76 million cases of food-borne illnesses annually in the U.S. An examination of the food processing and food service industry's failings and efforts to prevent food-borne illness will be the primary focus.

EHS 390. EHS Special Problems in Environmental Health. (1-4 Credits)

A. Prerequisite: departmental approval. For independent work, or special workshops, or special topics as they relate to environmental health issues and problems. May be retaken for maximum of eight hours.

EHS 395. Environmental Problem Analysis. (3 Credits)

II. Prerequisites: EHS 335, 340, and MAT 107 or 109; or departmental approval. Application of the student's knowledge gained from technical course work to analyze environmental problems. Emphasis is on logically solving environmental health issues that the student can expect when working in the field.

EHS 425. One Health: Planning to Practical Application. (3 Credits)

A. Prerequisites: EHS 280 and 335. Administration, planning, implementation, and evaluation of environmental health programs. Discussion of resources and promotional techniques, and the role of the environmental health specialist dealing with community, state, and regional agencies.

EHS 440. Environmental and Industrial Toxicology. (3 Credits)

II. Prerequisites: CHE 112, 112L and EHS 280; or departmental approval. Health effects and nature of toxic substances with discussion of dose-response relationships, latency, target organs, and potential exposures in the environment.

EHS 460. Healthy Housing and Sustainability. (3 Credits)

A. Prerequisite: EHS 280 or departmental approval. Corequisite: EHS 485. Discusses the requirements for healthful housing means of attaining and maintaining these requirements. Reviews environmental health concerns relating to day-care centers, schools, hospitals, nursing homes, and prisons. Describes surveillance, evaluative, and corrective methods.

EHS 463. Field Experience in Environmental Health. (3 Credits)

A. Prerequisites: EHS 300, 335, 380, and departmental approval. Supervised and directed field experience in local, state, regional environmental health agencies, or with appropriate industries. Eight to ten weeks full-time required depending on work place.

EHS 485. Life After College: The Professional. (1 Credit)

A. Prerequisite: 90 hours. Corequisite: EHS 460. Provides the graduating student a certification and licensure review for their required state and national exams. The student will also be taught how to develop professional success strategies and long range career plans.

EHS 498. Independent Study in Environmental Health. (1-3 Credits)

A. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department coordinator prior to enrollment. Opportunity for individual work on an environmental health research problem in a supervised situation.

EHS 510. Radiological Health and Safety. (3 Credits)

A. Provides the student with the principles of health effects from ionizing radiation, including radiation sources, detection, measurement, control, and safety devices. Student will be able to identify, evaluate and control radiation in the work environment; implement a radiation monitoring program; establish emergency plans for actions to be taken in event of radiological accident; develop risk assessment and communication program. Credit will not be awarded to students who have received credit for EHS 710.

EHS 530. Emerging and Re-emerging Infectious Diseases. (3 Credits)

I, II. Prerequisite: Senior Standing; BIO 111 and EHS 280. The student will acquire an understanding of the principles, biology, identification, evaluation, and control of vector borne diseases and other emerging/re-emerging diseases of public health concern.

EHS 710. Radiological Health & Safety. (3 Credits)

A. Provides the student with the principles of health effects from ionizing radiation, including radiation sources, detection, measurement, control, and safety devices. Student will be able to identify, evaluate and control radiation in the work environment; implement a radiation monitoring program; establish emergency plans for actions to be taken in event of radiological accident; develop risk assessment and communication program. Credit will not be awarded to students who have received credit for EHS 510.

EHS 730. Emerging and Re- Infect Diseases. (3 Credits)

I, II. The student will acquire an understanding of the principles, biology, identification, evaluation, and control of vector borne diseases and other emerging/re-emerging diseases of public health concern.

EHS 839. Appl Learning in Env Hlth Sci. (0.5-6 Credits)

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

EHS 839A. Co-op in Environmental Health. (0.5-6 Credits)**EHS 839B. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

EHS 839C. Co-op in Environmental Health. (0.5-6 Credits)

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

EHS 839D. Co-op in Environmental Health. (0.5-6 Credits)

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

EHS 839E. Co-op in Environmental Health. (0.5-6 Credits)

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

EHS 839F. Appl Learning in Env Hlth Sci. (0.5-6 Credits)

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

EHS 840. Total Worker Health. (3 Credits)

A. A study of the impact of the work place on worker's health and the control of causative factors of disease.

EHS 841. Occ Health Exposure Assessment. (3 Credits)

A. Identify primary sources of potential chemical, physical and biological agents, identify techniques for assessing the risk of worker exposures and understand health impacts of occupational exposures to workers. (KYU and WEB course).

EHS 855. Global Envir Crisis Management. (3 Credits)

A. This course will provide students with environmental health principles required to protect the global environmental health of a community in times of emergency/disaster.

EHS 860. Air Quality Assessment. (3 Credits)

A. A study of health impacts of air pollution from both outdoor and indoor sources. The course will also provide information about methods of reduction, control, and elimination of air pollution.

EHS 863. Field Experience in Env. Hea. (1-6 Credits)

A. Cross listed with EHS 839. Supervised and directed field experience at official agencies at any level of government (state, local or national) or with private industry. The course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 839.

EHS 865. Environmental Toxicology. (3 Credits)

A. Toxicology, the principles, concepts and thinking that are its foundation. The mechanisms by which the substances enter the cells of the body, the physiological processes, the target organs, classes of toxic substances, and potential exposures.

EHS 875. Principles of Ventilation. (3 Credits)

A. Provides the student with the principles of ventilation including: design of fans, cleaners duct sizing: calculations, inspections, balancing the system, and overall maintenance. This course deals with use of ventilation to reduce or eliminate occupational exposures in the workplace.

EHS 880. Food/Waterborne Sanitation. (3 Credits)

A. The management of safety and disease hazards inherent in administering community programs of food hygiene, water supply, and wastewater treatment.

EHS 885. Crisis Mgmt, Risk Com/Asmt. (3 Credits)

A. Provides the student with the principles of Crisis Management and Risk Communication/Assessment by becoming familiar with laws that mandate risk communication, types, and approaches to risk communication, effective risk communication, importance of crisis management/communication, process of hazard risk assessment, and benefits of development and implementation of an emergency response program.

EHS 890. Grad Project in Envrnmntl Hlth. (1-3 Credits)

A. Research into a special topic in Environmental Health. Student must have approval of course faculty.