EN VH Environmental Hlth Scienc

EN VH 7090 Selected Topics in Environmental Health Sciences
1-3 Credit Hours.  1-3 Lecture Hours.  0 Lab Hours.
Allows the student the opportunity to receive specialized and/or focused instruction in an environmental health topic not generally offered by the department.

EN VH 7231 Air Quality
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Introduces students to chemical, physical, and biological principles of air quality, as well as potential sources of contamination and the resulting effects. The course will also introduce environmental policies pertinent to air issues along with current remediation strategies to ameliorate pollution.
Prerequisite(s): A minimum grade of "C" in PUBH 6532.

EN VH 7232 Water Quality
3 Credit Hours.  2 Lecture Hours.  2 Lab Hours.
Introduces students to chemical, physical, and biological principles of water quality, as well as potential sources of contamination and the resulting effects. The course will also introduce environmental policies pertinent to water issues along with current treatment and remediation strategies to ameliorate pollution.
Prerequisite(s): A minimum grade of "C" in PUBH 6532.

EN VH 7233 Environmental Exposure and Impact Assessment
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course introduces students to appropriate design, implementation, and analysis of primary environmental exposures. Specific topics covered include designing risk profiles, analyzing field exposures of toxins, development of impact assessments, and evaluating dose-response relationships.
Prerequisite(s): A minimum grade of "C" in PUBH 6533 and ENVH 7231 or ENVH 7232.

EN VH 7234 Environmental Toxicology
3 Credit Hours.  3 Lecture Hours.  1 Lab Hour.
This course introduces students to concepts associated with the lethal and sub-lethal effects of environmental and occupational stressors on humans and other living organisms. The course also includes laboratory experiments designed to enhance comprehension, among students, in the area of toxicology.
Prerequisite(s): A minimum grade of "C" in PUBH 6532.

EN VH 7235 Field Methods in Environmental Health
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course introduces students to an overview of current and accepted standards of environmental and occupational exposure monitoring. Also examines the field methodology related to sample collection for water and air quality monitoring.

EN VH 7236 Spatial Analysis for Environmental Health Sciences
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Introduces students to concepts and methods of spatial analysis related to environmental health problems and public health planning. Students will also employ basic concepts of mapping through the use of applicable Geographic Information Systems software.

EN VH 7237 Risk Assessment and Communication
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Introduces students to the qualitative and quantitative skills necessary to evaluate the probability of injury, disease, or death in the general population from exposure to environmental contaminants. Hazard identification, exposure assessment, dose-response evaluation, and risk characterization are highlighted. Risk communication includes developing practical skills in assessing health concerns and explaining potential health risks or risk management to the general public.
Prerequisite(s): A minimum grade of "C" in ENVH 7233.
EN VH 9133  Vector-Borne and Zoonotic Diseases: Biology
Epidemiology and Control
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course introduces students to important vector-borne and zoonotic
diseases, including endemic and emerging zoonoses of historic and
contemporary importance in the USA and from a global perspective. It
provides an overview of the epidemiology of major vector-borne diseases,
the biology of their vectors and animal reservoir and their interaction
with pathogens. It discusses the dynamics and principles of pathogen
transmission, examines current approaches to vector and disease
surveillance, and summarizes the public health challenges associated with
control and prevention of these diseases and proper use of pesticides and
other environmentally safe methods.

Prerequisite(s): A minimum grade of "C" in PUBH 6541 and PUBH 8133.