

Environmental Engineering and Environmental Pollution Control Programs

Need to advance your skills or fulfill continuing education requirements? The Environmental Graduate Programs at Penn State Harrisburg are pleased to announce the following course offerings for Spring 2015 at its Middletown, PA campus. Courses are open to both degree-seeking and non-degree seeking students. Courses begin the week of January 12, 2015 and end May 8, 2014.

Graduate:

CE 570: Aquatic Chemistry (Credits: 3.0). Speciation, reactivity, and distribution of contaminants in water, with emphasis in inorganic chemicals. Prerequisites: CE 475 or environmental chemistry course or appropriate experience. Class time: Thursday, 6:00 – 9:00 p.m.

C E 577: Treatment Plant Design (Credits: 3.0). Design of works for the treatment of water and wastewater for municipalities and industries. Prerequisites: Education (CE 472 and ENVE 417) or Experience in Water and Wastewater Treatment and Hydraulics. Class time: Wednesday, 6:00 p.m. – 9:00 p.m.

ENVE 569: Environmental Risk Assessment (Credits: 3.0). Overview of ecological and human risk, including hazard identification, dose response, exposure assessment, and risk characterization. Prerequisites: None. Class Time: Wednesday, 6:00 – 9:00 p.m.

ENVE 591: Research Methods in Environmental Engineering (Credits: 1.0). Preparing a research proposal, critical reading of literature, understanding ethics in research, experimental design, data analysis and presentation. Prerequisites: EPC 590 Colloquium. Class Time: Monday, 4:40 p.m. – 5:30 p.m.

Non-environmental civil engineering graduate level courses are offered through the Civil Engineering Program as part of the Master's of Engineering Science. The offerings of these courses may be found at <http://schedule.psu.edu> under the C E designation.

Advanced Senior/Lower Graduate Level:

C E 476: Solid and Hazardous Wastes (Credits: 3.0). Characteristics and treatment of solid wastes and hazardous wastes. Class times: Monday, 6:00 p.m. – 9:00 p.m.

ENVE 415: Hydrology (Credits: 3.0). Watershed response to rainfall events; hydrologic systems; ground water flow. Prerequisites: Hydraulic Design (ENVE 417) or equivalent. Class times: Tuesday & Thursday, 4:15 p.m. – 5:30 p.m.

ENVE 417: Hydraulic Design (Credits: 3.0). Design of water and waste water conveyance systems and storage facilities. Use of EPANET and SWMM models. Prerequisites: Fluid Mechanics (CE 360) or equivalent. Class times: Tuesday & Thursday, 2:30 p.m. – 3:45 p.m.

ENVE 470: Air Quality (Credits: 3.0). Overview of air quality issues with regard to the sources, measurements, effects, transport and control of potential air contaminants. Class time: Tuesday, 6:00 p.m. – 9:00 p.m.

Next Semester?

Offerings tentatively scheduled for Fall 2015 include Air Quality (ENVE 470), Water Supply and Pollution Control (ENVE 411), Hydraulic Design (ENVE 417), Sustainable Engineering (ENVE 430), Open-Channel Hydraulics (CE 462), Water Quality Chemistry (CE 475), Colloquium (EPC 590), Environmental Engineering and Science Topics (CE 592), Industrial Waste Treatment (CE 575), and Environmental Microbiology (CE 579). Please check the website in the spring or contact the program for the full Fall course offerings.

Registration?

For students who are not currently enrolled in Penn State University but who want to take one of these classes, you may enroll as a non-degree seeking student. Information on registering as a non-degree seeking student may be found at the Penn State Harrisburg Web site, <http://harrisburg.psu.edu/admissions>. Students may also apply through that site to be admitted to one of the degree programs at Penn State Harrisburg. Additional information on the programs themselves may be found at <https://harrisburg.psu.edu/science-engineering-technology/civil-structural-engineering/master-engineering-environmental-engineering> (Graduate degree in Environmental Engineering), or <https://harrisburg.psu.edu/science-engineering-technology/civil-structural-engineering/master-environmental-pollution-control> (Graduate degree in Environmental Pollution Control).

More Information?

If you are interested in learning more about the program and/or about these classes, please contact Dr. Shirley Clark, Graduate Program Coordinator, at (717) 948-6127 or through email at seclark@psu.edu.