Courses

ENVT 0845. The Environment. 3 Credit Hours.
You can extend your longevity and improve your health by identifying and avoiding the top 10 environmental toxins that enter and persistently stay in your body. Develop connections between the environment and everyday life. Enhance your awareness of current environmental issues by taking part in discussion and debate: Is Global Warming for real? Should the U.S. sign the Kyoto protocol? Are we running out of oil? Learn as you go on campus field trips, try hands-on experiments and hear presentations from experts on the energy crisis, global climate change, acid rain, ozone depletion, resource sustainability, biodiversity and the environmental impact of natural phenomenon. Sharpen your strategies and leave a better environment for future generations. NOTE: This course fulfills a Science & Technology (GS) requirement for students under GenEd and Science & Technology Second Level (SB) for students under Core. Students cannot receive credit for this course if they have successfully completed CEE 0845, CEE 0945, CEE 1051, ENVT 0945, or ENVT 1051.
Course Attributes: GS
Repeatability: This course may not be repeated for additional credits.

ENVT 0945. Honors: The Environment. 3 Credit Hours.
You can extend your longevity and improve your health by identifying and avoiding the top 10 environmental toxins that enter and persistently stay in your body. Develop connections between the environment and everyday life. Enhance your awareness of current environmental issues by taking part in discussion and debate: Is Global Warming for real? Should the U.S. sign the Kyoto protocol? Are we running out of oil? Learn as you go on campus field trips, try hands-on experiments and hear presentations from experts on the energy crisis, global climate change, acid rain, ozone depletion, resource sustainability, biodiversity and the environmental impact of natural phenomenon. Sharpen your strategies and leave a better environment for future generations. NOTE: This course fulfills a Science & Technology (GS) requirement for students under GenEd and Science & Technology Second Level (SB) for students under Core. Students cannot receive credit for this course if they have successfully completed CEE 0845, CEE 0945, CEE 1051, ENVT 0845 or ENVT 1051.
Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR
Course Attributes: GS, HO
Repeatability: This course may not be repeated for additional credits.

ENVT 1051. Introduction to the Environment. 3 Credit Hours.
Basic environmental issues, systems and change; biogeochemical cycles; human population; ecosystems and their management and restoration; biological diversity, productivity and energy flow; biogeography; environmental health, pollution and toxicology; energy; and global warming. Hands on laboratory exercises are an integral part of the course. The lab exercises are conducted within the class schedule at each campus. NOTE: This course can be used to satisfy the university Core Science & Technology Second Level (SB) requirement. Students cannot receive credit for this course if they have successfully completed CEE 0845, CEE 0945, CEE 1051, ENVT 0845 or ENVT 0945.
Course Attributes: SB
Repeatability: This course may not be repeated for additional credits.

ENVT 1117. Sanitary Chemistry and Microbiology. 3 Credit Hours.
Wet chemical analysis of environmental importance, sampling, data handling, standard tests, microbiology.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(CHEM 1031|Minimum Grade of C-|May not be taken concurrently
AND CHEM 1033|Minimum Grade of C-|May not be taken concurrently).

ENVT 2124. Environmental Instrumentation. 3 Credit Hours.
Optical, electrochemical, and instrumental methods of analysis, environmental applications.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
ENVT 1117|Minimum Grade of C-|May not be taken concurrently.

ENVT 2133. Environmental Field Operations. 4 Credit Hours.
Field aspects of environmental engineering, air and water sampling, stack sampling, bioassay, and environmental aspects of planning.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
ENVT 2124|Minimum Grade of C-|May not be taken concurrently.

ENVT 4711. Air Pollution Control Systems. 3 Credit Hours.
Principles of design and operation of the major categories of air pollution control equipment. Theory and principles are presented to reinforce extensive application and design components.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(ENGT 2521|Minimum Grade of C-|May not be taken concurrently
AND PHYS 1062|Minimum Grade of C-|May not be taken concurrently).
ENVT 4721. Water and Wastewater. 3 Credit Hours.
Water treatment theory and design including sedimentation, coagulation, softening, iron removal, and chlorination, wastewater treatment theory and design, including grit chambers, activated sludge, trickling filter, and anaerobic digester.
Repeatability: This course may not be repeated for additional credits
Pre-requisites: ENGT 2521 | Minimum Grade of D- | May not be taken concurrently.

ENVT 4731. Hazardous Waste Management. 3 Credit Hours.
Collection and disposal: incineration, landfill, composting, recycling, special wastes, permitting.
Repeatability: This course may not be repeated for additional credits
Pre-requisites: ENVT 1117 | Minimum Grade of C- | May not be taken concurrently.

ENVT 4741. Environmental Modeling. 3 Credit Hours.
Theory and modeling of pollutant transport and diffusion with particular emphasis on air. Applicable principles of boundary layer meteorology, plume rise, air pollution climatology, data selection, and modeling for design. Survey of available models. Demonstrations and student projects with computer applications.
Repeatability: This course may not be repeated for additional credits
Pre-requisites: (MATH 1042 | Minimum Grade of C- | May not be taken concurrently)
AND (PHYS 1062 | Minimum Grade of C- | May not be taken concurrently)
AND (ENGT 2521 | Minimum Grade of D- | May not be taken concurrently).

ENVT 4761. Environmental Regulations. 3 Credit Hours.
Environmental regulations at the federal, state, and local levels. Emphasis on procedures for compliance with surveillance and permit requirements.
Class Restrictions: Must be enrolled in one of the following Classes: Junior 60 to 89 Credits, Senior 90 to 119 Credits, Senior/Fifth Year 120+ Credits
Repeatability: This course may not be repeated for additional credits.

ENVT 4796. Pollution Control Processes. 3 Credit Hours.
This is a capstone course for environmental engineering technology. Major environmental problems are provided and students will write a paper on each, prepare a plan to solve the problem, and present their findings to the class.
Course Attributes: WI
Repeatability: This course may not be repeated for additional credits
Pre-requisites: (ENVT 1117 | Minimum Grade of C- | May not be taken concurrently)
AND ENVT 2124 | Minimum Grade of D- | May not be taken concurrently
AND ENVT 2133 | Minimum Grade of D- | May not be taken concurrently).

ENVT 4982. Honors Independent Study in Environmental Engineering Technology. 2 to 4 Credit Hours.
Student may complete a regular course during a semester in which the course is not offered to meet prerequisite or graduation requirements. An instructor is assigned to supervise the student.
Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR
Course Attributes: HO
Repeatability: This course may be repeated for additional credit.

ENVT 4983. Honors Directed Study in Environmental Engineering Technology. 1 to 4 Credit Hour.
An opportunity to study specialized topics not covered in currently available courses and providing significant progress towards the technical/ professional objectives of the program. An instructor is assigned to define the scope and direct, supervise, and evaluate student progress.
Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR
Course Attributes: HO
Repeatability: This course may be repeated for additional credit.

ENVT 4991. Honors Independent Research in Environmental Engineering Technology. 2 to 4 Credit Hours.
A project conducted under the supervision of a faculty sponsor.
Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR
Course Attributes: HO
Repeatability: This course may be repeated for additional credit.