EENV 292. Independent Study. 1-3 Credits. (1-3 Ind; 6 cr max) On Demand
PREREQUISITE: Consent of instructor and approval of department head. Directed research and study on an individual basis.

EENV 340. Princ of Envir Engineering. 3 Credits. (3 Lec) F,S Lec 3 PREREQUISITE: CHMY 143 or CHMY 153. COREQUISITE: EGEN 335 or ECHM 321. Fundamentals of environmental engineering with emphasis on water and wastewater.

EENV 432. Advanced Engineering Hydrology. 3 Credits. (3 Lec) S Lec 3 PREREQUISITE: ECIV 331 and ECIV 332. Hydrology emphasizing engineering design. Topics include modern techniques for flow estimation, flood routing and sediment yield; design of conveyance structures; and water project development.

EENV 434. Groundwater Supply/Remediation. 3 Credits. (3 Lec) S Lec 3 PREREQUISITE: EGEN 335. Contemporary groundwater topics including water supply, contaminant transport, and remediation technologies.

EENV 440. Water Chemistry for Envr Engr. 3 Credits. (3 Lec) F PREREQUISITE: EENV 340. Fundamentals of aquatic chemistry and principles of water technology for environmental engineers. Based on chemical thermodynamics. Students learn to quantify water quality and control parameters characterizing water quality. Co-convened with EENV 540. Students enrolled in this course will not be able to take EENV 540 and have it count toward degree requirements.

EENV 441. Natural Treatment Systems. 3 Credits. (3 Lec) F PREREQUISITE: EENV 340. Planning, design, and operation of remediation facilities emphasizing natural versus mechanical elements. Specific topics include stabilization ponds, constructed wetlands, land treatment, and on-site domestic systems.

EENV 443. Air Pollution Control. 3 Credits. (3 Lec) F alternate even years. PREREQUISITE: EGEN 335, CHMY 141 and EGEN 324. Fundamentals of air quality management with emphasis on the design of processes and equipment for controlling gaseous and particulate emissions.


EENV 447. Hazardous Waste Management. 3 Credits. (3 Lec) S PREREQUISITE: Junior standing and either CHMY 211 or EGEN 335. Introduction to the technologies, regulations, political and social issues, and environmental impacts of hazardous wastes. Management approaches are developed through fundamental studies and review of case histories.

EENV 490R. Undergraduate Research. 1-6 Credits. (1-6 Ind; 12 cr max) Directed undergraduate research which may culminate in a research paper, journal article, or undergraduate thesis. Course will address responsible conduct of research. May be repeated.

EENV 491. Special Topics. 1-3 Credits. (1-3 Lec; 12 cr max) On Demand PREREQUISITE: Course prerequisites as determined for each offering. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

EENV 492. Independent Study. 1-3 Credits. (1-3 Ind; 4 cr max) On Demand PREREQUISITE: Junior standing, consent of instructor, and approval of Department Head. Directed research and study on an individual basis.

EENV 534. Environ Eng Investigation. 3 Credits. (3 Lec) F PREREQUISITE: EENV 340 and ECIV 431 or EENV 431 or ECIV 435. Laboratory and field investigations for design and analysis of environmental engineering systems with focus on site investigations, remediation and incorporation of modeling studies.

EENV 540. Water Chemistry for Envr Engr. 3 Credits. (3 Lec) F PREREQUISITE: EENV 340. Fundamentals of aquatic chemistry and principles of water technology for environmental engineers. Based on chemical thermodynamics. Students learn to quantify water quality and control parameters characterizing water quality. Co-convened with EENV 440. Students enrolled in this course will not be able to take EENV 440 and have it count toward degree requirements.

Font Notice
This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.