Civil, Environmental, and Construction Engineering
INTRODUCTION TO ENVIRONMENTAL ENGINEERING
ENV 3001

Designation: Required (Civil, Environmental, and Construction)

2008-09 Catalog Description: ENV 3001 ECS-CECE 3(3,0)
Introduction to concepts and terminology of environmental engineering. Stresses material and energy balances. Covers air, water and land pollution. Fall, Spring, Summer.

Pre-requisite(s) and/or Co-requisite(s):
PR: CHM 2046 – Chemistry Fundamentals II
PR: MAC 2312 – Calculus with Analytic Geometry II

Textbook(s) and/or other required material(s):

References:
N/A

Course learning outcomes/expected performance criteria:
This class is an introduction to environmental engineering. The course goals are to:
- Reinforce students’ knowledge of chemistry
- Teach students how to employ material and energy balances
- Teach students how to employ spreadsheets for simple numerical analysis
- Increase students’ knowledge and vocabulary of Environmental Engineering
- Teach students how to solve basic engineering problems dealing with air pollution, water and wastewater treatment, and solid waste disposal

Topics:
- Chemistry
- Material Balances
- Hydrology
- Water and Wastewater Treatment
- Air Pollution
- Solid and Hazardous Wastes

Class Schedule: Laboratory Schedule:
Number of sessions per week: 2 Number of sessions per week: 0
Duration of each session: 75 minutes Duration of each session: 0

Contribution of course to meeting requirements of Criterion 3 Curriculum:
Engineering Sciences: 100%
Engineering Design: 0%
General Education: 0%
### Relationship of the course to the ABET Program Outcomes:

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Prepared by: Dr. C. David Cooper, P.E  
Date: 03/17/2008