**PURDUE UNIVERSITY**

REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF A COURSE

**DEPARTMENT**: Civil Engineering  
**EFFECTIVE SESSION**: Fall 2007

**INSTRUCTIONS**: Please check the items below which describe the purpose of this request.

1. New course with supporting documents
2. Add existing course
3. Expiration of a course
4. Change in course number
5. Change in course title
6. Change in course credit/type

**PROPOSED:**

Subject Abbreviation: CE  
Course Number: 456
Long Title: Water and Wastewater Treatment
Short Title: Water & Wastewater

**EXISTING:**

Subject Abbreviation: CE  
Course Number: 456

Long Title  
Short Title  

**TERMS OFFERED**: Check All That Apply:
- [ ] Summer  
- [ ] Spring  
- [x] Fall

**CAMPUS(ES) INVOLVED**
- Calumet
- Indianapolis
- W.Lafayette
- Tech Statewide

**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs.  
2. Variable Credit Range:  
   Minimum Cr. Hrs.  
   (Check One) To  
   Maximum Cr. Hrs.
3. Equivalent Credit: Yes  
4. Thesis Credit: Yes

**COURSE ATTRIBUTES**: Check all That Apply:
1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Credit by Examination
5. Designator Required
6. Special Fees
7. Registration Approval Type
   - Department
   - Instructor
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

**Course Description (Include Requisites):**

Sem. 1. Class 3, cr. 3
Prerequisites: CE 352, CE 353. Authorized equivalent courses or consent of instructor may be used in satisfying course pre-requisites. Fundamental concepts and design procedures for the treatment of determination of water and wastewater characteristics, biological, physical, and chemical treatment methods, process design, and disposal of residues.

**Cross-Listed Courses**

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**Office of the Registrar**

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TO: Engineering Faculty
FROM: The Faculty of the School of Civil Engineering
RE: Changes in Undergraduate Level Course CE 456

The faculty of the School of Civil Engineering has approved the following changes in the title and description of an undergraduate level course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From: **CE 456 Wastewater Treatment**
Sem. 1, Class 3, cr. 3
Prerequisites: C E 352, C E 353. Authorized equivalent courses or consent of instructor may be used in satisfying course pre-requisites.

Fundamental concepts and design procedures for the treatment of municipal and industrial wastewaters. Problem assessment; determination of effluent quality, preliminary treatment; biological, physical, and chemical treatment methods; and utilization and disposal of residues. Field trips required.

To: **CE 456 Water and Wastewater Treatment**
Sem. 1, Class 3, cr. 3
Prerequisites: C E 352, C E 353. Authorized equivalent courses or consent of instructor may be used in satisfying course pre-requisites.

Fundamental concepts and design procedures for the treatment of municipal and industrial water and wastewaters. Problem assessment; determination of water and wastewater characteristics, biological, physical, and chemical treatment methods, process design, and disposal of residues.

Reason: The proposed changes in the title and description reflect a broader coverage of topics. Inclusion of water treatment in this course is needed to better prepare undergraduate engineering students for civil engineering practice.

M. Kathy Banks
Professor and Head