

EFD 08-04

DEPARTMENT Civil Engineering

EFFECTIVE SESSION ~~Fall 2006~~ Spring 2007

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

- | | |
|---|--|
| <input checked="" type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes |
| <input type="checkbox"/> 2. Add existing course | <input type="checkbox"/> 8. Change in instructional hours |
| <input type="checkbox"/> 3. Expiration of a course | <input type="checkbox"/> 9. Change in course description |
| <input type="checkbox"/> 4. Change in course number | <input type="checkbox"/> 10. Change in course requisites |
| <input type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:

EXISTING:

TERMS OFFERED

Check All That Apply:

Subject Abbreviation CE Subject Abbreviation ~~CE~~
 Course Number 556 Course Number ~~556~~

Summer Spring Fall

Long Title Instrumental Methods in Environmental Chemistry

Short Title _____

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

CAMPUS(ES) INVOLVED
 Calumet Ft. Wayne
 Indianapolis N. Central
 W.Lafayette Cont Ed
 Tech Statewide

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 3
 2. Variable Credit Range:
 Minimum Cr. Hrs _____
 Maximum Cr. Hrs _____
 (Check One) To Or
 3. Equivalent Credit: Yes No
 4. Thesis Credit: Yes No

COURSE ATTRIBUTES: Check all That Apply

1. Pass/Not Pass Only
 2. Satisfactory/Unsatisfactory Only
 3. Repeatable
 Maximum repeatable credit: _____
 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

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn)	Delivery Medium (Audio, Internet, Live, Text-Based, Video)
Lecture	50	2	16	67	Syn	Live
Presentation						
Laboratory	170	1	16	33	Syn	Live
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

Cross-Listed Courses
~~EAS 591~~

COURSE DESCRIPTION (INCLUDE REQUISITES):

Sem. 2 or SS, Class 2, lab 3, Cr. 3, **CHM**
 Prerequisites: General Chemistry (Chem 111 or equiv.), analytical chemistry (CE 353 or equiv.), or equivalent lab experience with consent of instructor.
 Theory and operation of analytical instruments for quantitative chemical analysis of elements and chemicals of interest in environmental engineering and environmental geochemistry. Instrumental methods covered include: gas, liquid, and ion chromatography, gas chromatography-mass spectrometry, stable isotope mass spectrometry, atomic absorption spectroscopy, and inductively coupled plasma emission spectrometry.

Professors Xiao and Jafvert.

Calumet Undergrad Curriculum Committee _____ Date _____	Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____	Fort Wayne Chancellor _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____	Undergrad Curriculum Committee _____ Date _____
North Central Department Head _____ Date _____	North Central Chancellor _____ Date _____	APPROVED <u>10/19/06</u> Date Approved by Graduate Council _____
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____	Graduate Council Secretary _____ Date _____
Graduate Council Area Committee Chair _____ Date _____	Graduate Dean _____ Date _____	West Lafayette Registrar _____ Date _____

11/2/07
 [Signature]

