PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(100-400 LEVEL)

DEPARTMENT Engineering
EFFECTIVE SESSION Fall 2011

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

X 1. New course with supporting documents
    2. Add existing course offered at another campus
    3. Expiration of a course
    4. Change in course number
    5. Change in course title
    6. Change in course credit type
    7. Change in course attributes (department head signature only)
    8. Change in instructional hours
    9. Change in course description
   10. Change in course requisites
   11. Change in semesters offered (department head signature only)
   12. Transfer from one department to another

PROPOSED:
Subject Abbreviation CE
Course Number 40100
Long Title Civil Engineering Profession and Practice
Short Title CE Profess & Practice

EXISTING:
Subject Abbreviation
Course Number

TERMS OFFERED:
Check All That Apply:
Summer X Fall X Spring

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

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

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

INSTRUCTIONAL TYPE
Lecture
Recitation
Presentation
Laboratory
Lab Prep
Studio
Distance
Clinic
Experiential
Research
Ind. Study
Prac/Observ
Minutes Per Min
Meetings Per Week
Weeks
% of Credit Offered
Allocated
15
100
40

COURSE ATTRIBUTES: Check All That Apply
7. Registration Approval Type
   Department
   Instructor
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

DELIVERY METHOD
Delivery Medium (Audio, Internet, Live, Text-Based, Video)
Synchronized

COURSE DESCRIPTION (INCLUDE REQUISITES):

P: Junior Standing or permission of the instructor – The goal of this course is to develop an understanding of various civil engineering career tracks upon graduation, to be familiar with responsibilities and duties of professional subdisciplines within civil engineering, to be aware of the civil engineer responsibilities in solving local and global problems, to improve technical and non-technical communications skills, and to understand the role of civil engineers in the society.

Calumet Department Head
Date
Calumet School Dean
Date

Ft. Wayne Department Head
Date
Ft. Wayne School Dean
Date

Indianapolis Department Head
Date
Indianapolis School Dean
Date

North Central Department Head
Date
North Central Chancellor
Date

West Lafayette Department Head
Date
West Lafayette College/School Dean
Date
West Lafayette Registrar
Date

OFFICE OF THE REGISTRAR
Required Course: CE 401 – Civil Engineering Profession and Practice
Offered spring and fall

Catalog Data: Class: 1. Credits: 1.
This course introduces students to civil engineering career options of practice and/or pursuing graduate studies. The course provides information on duties, responsibilities, challenges, and opportunities in civil engineering subdisciplines. It also highlights the importance of professional registration and membership in professional societies; requirements for graduate studies and the need for life-long learning, and the role of civil engineers in addressing contemporary engineering related issues such as sustainability and global warming.

Prerequisites: Junior standing or permission of the instructor

Corequisite: N/A

Required Textbook: None
Reference: None

Course Objectives: The goal of this course is to develop an understanding of various civil engineering career tracks upon graduation, to be familiar with responsibilities and duties of professional subdisciplines within civil engineering, to be aware of the civil engineer responsibilities in solving local and global problems, to improve technical and non-technical communications skills, and to understand the role of civil engineers in the society.

Schedule: One 50-minute class per week.

Lecture Topics
1. Career options: search for a job and/or pursue graduate studies? 1 class
2. Civil engineering career:
   a. Public versus private sectors
   b. Duties, challenges, and opportunities in CE subdisciplines 3 classes
3. Graduate schools and life-long learning 1 class
4. Professional societies role and impact 1 class
5. Engineering technical communication 1 class
6. Communication with public 1 class
7. Selected contemporary issues such as Infrastructure, Global Warming/Environment/Energy Issues, Sustainability and Green Technologies 3 classes
8. Engineering ethics/law/legal issues 2 classes
9. FE and PE exam requirements and procedures 1 class
**Course Outcomes**  
Upon successful completion of this course, students shall be able to:

1. have good understanding of professional and ethical responsibility. [f (7)]
2. understand the impact of civil engineering solutions in local, global, and political context. [h (9)]
3. communicate effectively with technical professionals and public. [g (8)]
4. recognition of the need for, and an ability to engage in life-long learning including pursuing graduate education and/or continuing education [i (2)]
5. knowledge of local, national and global contemporary issues [i (9)]

Letters and numbers in parentheses refer to ABET outcomes and their correspondence BSCE program Outcomes.

**ABET category**  
Engineering science: 1 credit or 100%
Engineering design: 0 credits or 0%