

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

EFD 43-11

DEPARTMENT Civil Engineering EFFECTIVE SESSION Fall 2011 201210

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 (department head signature only) |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <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/restrictions |
| <input type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED: Subject Abbreviation <u>CE</u> Course Number <u>29201</u> 29200 Long Title <u>Contemporary Issues in Civil Engineering</u> Short Title <u>Contemp Issues in CE</u> <small>Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)</small>	EXISTING: Subject Abbreviation _____ Course Number _____	TERMS OFFERED Check All That Apply: <input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer CAMPUS(ES) INVOLVED <input type="checkbox"/> Calumet <input type="checkbox"/> N. Central <input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide <input type="checkbox"/> Ft. Wayne <input checked="" type="checkbox"/> W. Lafayette <input type="checkbox"/> Indianapolis
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CREDIT TYPE 1. Fixed Credit: Cr. Hrs. <u>1</u> 2. Variable Credit Range: _____ Minimum Cr. Hrs. _____ (Check One) To <input type="checkbox"/> Or <input type="checkbox"/> Maximum Cr. Hrs. _____ 3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	COURSE ATTRIBUTES: Check All That Apply 1. Pass/Not Pass Only <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only <input type="checkbox"/> 3. Repeatable <input type="checkbox"/> Maximum Repeatable Credit: _____ 4. Credit by Examination <input type="checkbox"/> 5. Special Fees <input type="checkbox"/> 6. Registration Approval Type <input type="checkbox"/> Department <input type="checkbox"/> Instructor <input type="checkbox"/> 7. Variable Title <input type="checkbox"/> 8. Honors <input type="checkbox"/> 9. Full Time Privilege <input type="checkbox"/> 10. Off Campus Experience <input type="checkbox"/>
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Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	1	16	100%
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

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 Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

The objective of this course is to provide a forum on contemporary issues in the profession of civil engineering. Items addressed include professionalism and ethics, entrepreneurship, interactions with engineering faculty and professionals outside the University. A professional portfolio of communication assignments including understanding of cultural differences and collaborating globally, individual plans of study, and academic career options within civil engineering will be addressed. Restricted to sophomore status in College of Engineering.

***COURSE LEARNING OUTCOMES**

1. Provide an understanding of professional and ethical responsibility
2. Demonstrate the ability to communicate effectively
3. Demonstrate the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date
North Central Faculty Senate Chair	Date	Vice Chancellor for Academic Affairs	Date
<u>MK Barber</u>	<u>4/15/11</u>	<u>Michael J. ...</u>	<u>8/14/11</u>
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date
		West Lafayette Registrar	Date

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8/12/11

CE 29201

Engineering Faculty Document 43-11

Date: March 3, 2011

Page 1 of 1

TO: The Faculty of the College of Engineering

FROM: **The Faculty of the School of Civil Engineering**

RE: New undergraduate course CE 2920¹ Contemporary Issues in Civil Engineering

The faculty of the School of Civil Engineering has approved the following new course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

Course No. CE 2920¹ **Contemporary Issues in Civil Engineering**
 Sem. 1 & 2, Lecture, Cr. 1
Restriction: sophomore status in College of Engineering

Description: A forum on contemporary issues in the profession of civil engineering. Addresses professionalism and ethics, entrepreneurship, cultural differences, global collaboration, communication skills, and career options within civil engineering. Interactions with faculty in various disciplines within civil engineering and with professionals outside the University. Each student will demonstrate (a) an understanding of professional and ethical responsibility, (b) the ability to communicate effectively, and (c) the impact of engineering solutions in a global, economic, environmental, and societal context.

Reason: To incorporate ethics and professionalism, communication, and the impact of engineering solutions in a global, economic, environmental, and societal context into our curriculum. This new required course replaces CE29000 Civil Engineering Seminar and will incorporate contemporary issues previously addressed in CE 39900 Oral & Written Communication, which has been eliminated from the curriculum.

M. K. Banks
 M. Katherine Banks, Head
 School of Civil Engineering

APPROVED FOR THE FACULTY
 OF THE SCHOOLS OF ENGINEERING
 BY THE ENGINEERING
 CURRICULUM COMMITTEE

ECC Minutes # 17
 Date 4-20-11
 Chairman ECC R. Cipra

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CE 29200 Contemporary Issues in Civil Engineering

Supporting documentation

1. **Justification:** CE 29200 addresses professionalism and ethics, entrepreneurship, cultural differences, global collaboration, communication skills, and career options within civil engineering. With the recent elimination of CE 39900 Oral and Written Communication, the new course CE 29200 is needed to more appropriately incorporate our outcomes related to ethics, communications, and global and cultural differences into our core curriculum. CE 29200 will combine aspects of a seminar class with grades assigned on participation. The final grade in this revised course will include assignments on ethics, communication, global and cultural differences, and group projects. Due to the change in course requirements, this revision will change the course from 0 credit hours to 1 credit hour.
2. **Level:** Undergraduate Level
3. **Title:** Revised title – CE 29000 Contemporary Issues in Civil Engineering
4. **Restriction:** sophomore status in the College of Engineering
5. **Course objectives:** The objective of this course is to provide a forum on contemporary issues in the profession of civil engineering. Items addressed include professionalism and ethics, entrepreneurship, interactions with engineering faculty and professionals outside the University. Communication assignments will address cultural differences, global collaboration, individual plans of study, and academic career options within civil engineering.
6. **Course Outcomes:** At the completion of this course, the student will be able to ...
 1. Demonstrate an understanding of professional and ethical responsibility
 2. Demonstrate the ability to communicate effectively
 3. Demonstrate the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
7. **Assessment tools:**
 1. Professional correspondence (professional transmittal correspondence with enclosures)
 2. Resume (1 page)
 3. Formal memo (ethics analysis and response) 1 page with attachment
 4. Visual presentation of engineering project (small project on “visualizing civil engineering”)
 5. Global assignment

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8. Course Outline:

Weeks	Topics
1	Course introduction
2	Lecture on Structures emphasis area
3	Lecture on PE, FE, and Licensing – Ethics Discussion (Ethics assignment)
4	Lecture on Architectural Engineering emphasis area
5	Resume Building and Entrepreneurship (Resume assignment)
6	Lecture on Hydraulics and Hydrology emphasis area
7	Lecture on Geotechnical emphasis area
8	Lecture on Environmental emphasis area (Global assignment)
9	Lecture on Construction emphasis area (Global assignment)
10	Lecture on Materials emphasis area
11	Lecture on Geomatics emphasis area
12	Lecture on Transportation emphasis area
13	Visualization Project
14	Visualization Project
15	Visualization Project Presentations

9. **Text:** class notes

10. The course website with all assignments, datasets, etc. can be accessed at the following: <http://bridge.ecn.purdue.edu/~ce292>

11. The proposed course syllabus is appended on the following pages.

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CE 29201

Contemporary Issues in Civil Engineering

The objective of this course is to provide a forum on contemporary issues in the profession of civil engineering. Items addressed include professionalism and ethics, entrepreneurship, interactions with engineering faculty and professionals outside the University. Communication assignments will address cultural differences, global collaboration, individual plans of study, and academic career options within civil engineering.

Lectures:

1 day per week for 50 minutes (typically Tuesday or Thursday)

Website:

<http://bridge.ecn.purdue.edu/~ce292>

Course requirements:

- Professional correspondence (professional transmittal correspondence with enclosure)
- Resume (1 page)
- Formal memo (ethics analysis and response) 1-page with attachment
- Visual presentation of engineering project (small project on “visualizing civil engineering”)
- Global assignment

Grade distribution:

Communication assignments (10%); Ethics Assignment (15%); Guest Speaker introduction, questions, participation (15%); Global Assignment (30%); Visualization Project (30%)

Prerequisites:

Sophomore status in College of Engineering

Required materials:

Class notes

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CE 29201

Course content

- Week 1 Course introduction
- Week 2 Lecture on Structures emphasis area
- Week 3 Lecture on PE, FE, and Licensing – Ethics Discussion
(Ethics assignment)
- Week 4 Lecture on Architectural Engineering emphasis area
- Week 5 Resume Building and Entrepreneurship
(Resume assignment)
- Week 6 Lecture on Hydraulics and Hydrology emphasis area
- Week 7 Lecture on Geotechnical emphasis area
- Week 8 Lecture on Environmental emphasis area
(Global assignment)
- Week 9 Lecture on Construction emphasis area
(Global assignment)
- Week 10 Lecture on Materials emphasis area
- Week 11 Lecture on Geomatics emphasis area
- Week 12 Lecture on Transportation emphasis area
- Week 13 Visualization Project
- Week 14 Visualization Project
- Week 15 Visualization Project Presentations

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