

TO: The Faculty of the College of Engineering

FROM: The Lyles School of Civil Engineering

RE Changes in Undergraduate Level Course CE 29201 description and credits

The Faculty of the Lyles School of Civil Engineering has approved the change in description and credits for the course listed below. This action is now submitted to the Engineering Faculty with recommendation for approval.

FROM: CE 29201 - Contemporary Issues in Civil Engineering

Sem. 1 and 2. Class 1, cr. 1.
 Restricted to second semester freshmen status in College of Engineering

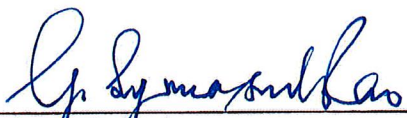
The objective of this course is to provide a forum on contemporary issues in the profession of civil engineering. Items addresses [sic] include professionalism and ethics, entrepreneurships, interactions with engineering faculty and professionals outside the University. A professional portfolio of communication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

TO: CE 29202 - Contemporary Issues in Civil Engineering

Sem. 1 and 2. Lecture 1, Recitation 1, cr. 2.
 Restricted to second semester freshmen status in College of Engineering

This course provides a forum on issues in the civil engineering profession in a contemporary context. Topics include professionalism and ethics, entrepreneurship, cultural differences, and collaborating globally. Students have interactions with engineering faculty and professionals outside the University. Guidance on the preparation of individual plans of study and information on civil engineering career options are provided. Students learn and apply fundamental aspects of written communication in professional settings. Emphasis is placed on delivery of technical and managerial content. Students will compile a professional portfolio of communication assignments, including lab reports prepared in other CE courses.

REASON: Add content to CE29201 that will emphasize written communications at an early stage of the civil engineering undergraduate curriculum and integrate technical communications into the curriculum.



Rao S. Govindaraju
 Bowen Engineering Head and Christopher B. and Susan S. Burke Professor
 Lyles School of Civil Engineering

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

APPROVED: 4/8/14
 Date: 4/8/14
 Chairman ECC: [Signature]

CE 29202

Office of the Registrar
FORM 40 REV. 5/11

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

Pin Form
EFD 32-14

DEPARTMENT Civil Engineering

EFFECTIVE SESSION Fall 2014 (201510)

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

- | | |
|---|---|
| <input 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 checked="" type="checkbox"/> 8. Change in instructional hours |
| <input type="checkbox"/> 3. Expiration of a course | <input checked="" type="checkbox"/> 9. Change in course description |
| <input checked="" 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 (department head signature only) |
| <input checked="" 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 <u>CE</u>	Subject Abbreviation <u>CE</u>	<input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer
Course Number <u>29202</u>	Course Number <u>29201</u>	CAMPUS(ES) INVOLVED
Long Title <u>Contemporary Issues in Civil Engineering</u>		<input type="checkbox"/> Calumet <input type="checkbox"/> N. Central
Short Title <u>Contemporary Issues in CE</u>		<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
Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)		

CREDIT TYPE	COURSE ATTRIBUTES: Check All That Apply
1. Fixed Credit: Cr. Hrs. <u>2</u>	1. Pass/Not Pass Only <input type="checkbox"/>
2. Variable Credit Range: Minimum Cr. Hrs. _____ (Check One) To <input type="checkbox"/> Or <input type="checkbox"/> Maximum Cr. Hrs. _____	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	3. Repeatable <input type="checkbox"/> Maximum Repeatable Credit: <input type="checkbox"/>
	4. Credit by Examination <input type="checkbox"/>
	5. Fees: <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request Include comment to explain fee
	6. Registration Approval Type 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"/>

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	1	16	50
Recitation	50	1	16	50
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):
Restricted to second semester freshmen status in College of Engineering
This course provides a forum on issues in the civil engineering profession in a contemporary context. Topics include professionalism and ethics, entrepreneurship, cultural differences, and collaborating globally. Students have interactions with engineering faculty and professionals outside the University. Guidance on the preparation of individual plans of study and information on civil engineering career options are provided. Students learn and apply fundamental aspects of written communication in professional settings. Emphasis is placed on delivery of technical and managerial content. Students will compile a professional portfolio of communication assignments.

***COURSE LEARNING OUTCOMES:**
Learning Objectives: 1. Ability to communicate effectively. 2. The ability to understand the impact of engineering solutions in a global and societal context. 3. A knowledge of contemporary issues, particularly with respect to nuclear topics. 4. An understanding of professional and ethical responsibility

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

OFFICE OF THE REGISTRAR

LAM 4/29/14

APR 22 2014

CE 29202 - Contemporary Issues in Civil Engineering Required Text:

Required text: *Technical Communication: Process and Product* by Sharon J. Gerson and Steven M. Gerson, 6th edition.

Week Number and Topics:

Week	Lecture	Recitations
1	Introduction to course/resources	Value of good communication
2	Professional Ethics in Engineering	Good listening skills
3	Resume Writing and Interviewing Skills	Writing Process
4	Careers – Construction Eng.	Paper Critique – Understanding How Others Write
5	Working in a Global Environment	Technical Writing
6	Careers – Environmental Eng.	Finding information to support communication
7	Careers – Architectural Eng.	Scientific Writing – Using Abstracts and Executive Summaries
8	Contemporary Issues/Hot topics	Ethics in writing; Writing collaboratively
9	Careers – Geotechnical Eng.	Discussing data; Communicating through calculations, tables, and figures
10	Careers – Geomatics Eng.	Document design, tone, and style
11	Careers – Materials Eng.	In-field writing; lab reports, on-site work
12	Careers – Hydraulics and Hydrology Eng.	Progress reports
13	Careers – Structural Eng.	Office correspondence/emails
14	Careers – Transportation Eng.	Visual Communication
15	Working in Teams	Final paper return and discussion
16	Visualization Project Presentations	Wrap-up

Grading: 100% on written assignments

Learning Objectives: 1. Ability to communicate effectively. 2. The ability to understand the impact of engineering solutions in a global and societal context. 3. A knowledge of contemporary issues, particularly with respect to nuclear topics. 4. An understanding of professional and ethical responsibility