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, 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.

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 SCHOOLS OF ENGINEERING BY THE ENGINEERING CURRICULUM COMMITTEE

Date 4/8/14
Chairman ECO 1324
### COURSE DESCRIPTION

**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 management content. Students will complete a professional portfolio of communication assignments.

**COURSE LEARNING OUTCOMES:**

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.

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### OFFICE OF THE REGISTRAR

**Office of the Registrar**

**FORM 40 REV. 6/11**

**PURDUE UNIVERSITY**

REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE

(10000-40000 LEVEL)

**DEPARTMENT:** Civil Engineering  
**EFFECTIVE SESSION:** Fall 2014 (201510)

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

- [ ] New course with supporting documents
- [ ] Add existing course offered at another campus
- [ ] Expiration of a course
- [x] Change in course number
- [ ] Change in course title
- [x] Change in course credit/type
- [ ] Change in course attributes (department head signature only)
- [ ] Change in instructional hours
- [ ] Change in course description
- [ ] Change in course requisites
- [ ] Change in semesters offered (department head signature only)
- [ ] Transfer from one department to another

**PROPOSED:**

- **Subject Abbreviation:** CE
- **Course Number:** 29202
- **Long Title:** Contemporary issues in Civil Engineering
- **Short Title:** Contemporary issues in CE

**PROPOSED CREDIT TYPE:**

1. Fixed Credit: [ ]
   - Cr. Hrs.
   - Minimum Cr. Hrs. (Check One)
   - Maximum Cr. Hrs.
   - Equivalent Credit: [ ]

2. Variable Credit Range:
   - Credit if [ ]
   - Credit if [ ]

**PROPOSED COURSE ATTRIBUTES:**

- [x] Pass/Not Pass Only
- [ ] Satisfactory/Unsatisfactory Only
- [ ] Repeatable
- [ ] Maximum Repeatability Credit:
- [ ] Credit by Examination
- [ ] Full Time Privilege
- [ ] Off Campus Experience

**CAMPUS(ES) INVOLVED:**

- [ ] Calumet
- [ ] Cont Ed
- [ ] Ft. Wayne
- [x] Tech Statewide
- [ ] Indianapolis
- [ ] N. Central
- [x] W. Lafayette

**TERMS OFFERED:**

- [x] Fall
- [x] Spring
- [ ] Summer

**SCHEDULE TYPE:**

- Lecture: 50 Minus
- Recitation: 50 Minus
- Presentation: 50
- Laboratory: 50
- Lab Prep: 50
- Studio: 50
- Distance: 50
- Clinic: 50
- Experiential: 50
- Research: 50
- Ind. Study: 50
- Pract/Observ: 50

**% OF CREDIT ALLOCATED:**

- Weeks Offered: 16
- % of Credit Allocated: 50

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**OFFICE OF THE REGISTRAR**

**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

**N. Central Faculty Senate Chair**: Date
**Vice Chancellor for Academic Affairs**: Date

**W. Lafayette Department Head**: Date
**W. Lafayette College/School Dean**: Date
**W. Lafayette Registrar**: Date

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**Apr 22, 2014**

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**Lain 4/29/14**
CE 29202 - Contemporary Issues in Civil Engineering Required Text:


**Week Number and Topics:**

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

**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