CIVL 480 – Co-op in Civil and Environmental Engineering Technology

Created by: Adrienne C. Rygel
Updated by:

Canino School of Engineering Technology
Department:  Civil and Construction Technology
Semester/Year:  Fall 2019
A. **TITLE:** Co-op in Civil and Environmental Engineering Technology

B. **COURSE NUMBER:** CIVL 480

C. **CREDIT HOURS:** 3 credit hour(s) per week for 15 weeks

  - [ ] One hour (50 minutes) of lecture per week
  - [ ] Two to three hours of lab or clinical per week
  - [ ] Two hours of recitation per week
  - [x] 40 hours of internship  **40 hours per credit hour (1-3 credits)**

D. **WRITING INTENSIVE COURSE:** Yes [ ] No [x]

E. **GER CATEGORY:** None: [ ] Yes: GER

   *If course satisfies more than one:* GER

F. **SEMESTER(S) OFFERED:** Fall [ ] Spring [ ] Fall & Spring [x]

G. **COURSE DESCRIPTION:**

   This course provides students with an opportunity to receive program credit for real world learning experience through internship placement with a private/public organization in a field related to the student's degree, academic objectives, and career goals. This course requires students to have an active position that requires them to apply knowledge already obtained in their degree program and/or expand their knowledge and skills in the civil and/or environmental engineering technology industries.

H. **PRE-REQUISITES:** None [ ] Yes [x] If yes, list below:

   45 earned credits, consent of academic advisor, and approval by the Dean of CSOET

   **CO-REQUISITES:** None [x] Yes [ ] If yes, list below:
I. **STUDENT LEARNING OUTCOMES:** *(see key below)*

By the end of this course, the student will be able to:

<table>
<thead>
<tr>
<th>Course Student Learning Outcome [SLO]</th>
<th>Program Student Learning Outcome [PSLO]</th>
<th>GER [If Applicable]</th>
<th>ISLO &amp; SUBSETS</th>
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<td>a) Demonstrate knowledge and skills related to tasks and job assignments.</td>
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<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets Subsets</td>
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<td>b) Effectively communicate orally and in writing.</td>
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<td>1-Comm Skills ISLO ISLO</td>
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<td>c) Demonstrate ability to work as part of a team and if applicable show leadership skills.</td>
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<td>4-Soc Respons ISLO ISLO</td>
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<td>d) Demonstrate awareness of economical, societal, and ethical issues related to the industry.</td>
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<td>4-Soc Respons ISLO ISLO</td>
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<td>e) Demonstrate timeliness in completing assignments</td>
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<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
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<td>f) Demonstrate continued growth and willingness to learn</td>
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<td>KEY</td>
<td>Institutional Student Learning Outcomes [ISLO 1 – 5]</td>
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<td>ISLO #</td>
<td>ISLO &amp; Subsets</td>
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</table>
| 1 | Communication Skills  
Oral [O], Written [W] |
| 2 | Critical Thinking  
Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS] |
| 3 | Foundational Skills  
Information Management [IM], Quantitative Lit./Reasoning [QTR] |
| 4 | Social Responsibility  
Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T] |
| 5 | Industry, Professional, Discipline Specific Knowledge and Skills |

*Include program objectives if applicable. Please consult with Program Coordinator*
J. **APPLIED LEARNING COMPONENT:** Yes ☒ No ☐

If YES, select one or more of the following categories:

- ☐ Classroom/Lab
- ☒ Internship
- ☐ Clinical Placement
- ☐ Practicum
- ☐ Service Learning
- ☐ Community Service
- ☐ Civic Engagement
- ☐ Creative Works/Senior Project
- ☐ Research
- ☐ Entrepreneurship

(k, l, m, n, o)

K. **TEXTS:**

- None

L. **REFERENCES:**

- None

M. **EQUIPMENT:** None ☐ Needed:

N. **GRADING METHOD:** A - F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

- Journal
- 40 hour progress reports
- Final Report
- PowerPoint presentation
- Supervisor's evaluation

P. **DETAILED COURSE OUTLINE:**

I. Journal
   - A. Daily log of hours and tasks
   - B. Notes related to growth of knowledge and skills
   - C. Notes related to how tasks related to academic curriculum

II. Progress Reports
   - A. Weekly report
   - B. Summary of work
   - C. Reflection of work and growth

III. Final Report
   - A. Cumulative report
   - B. Summary of work and tasks
   - C. Reflection of overall growth and areas of needed improvement
   - D. Evaluation of how academic curriculum has or will relate to this and future positions in this field
E. Photographs and other appropriate documentation

IV. Presentation
   A. Oral presentation to faculty and/or students
   B. Summary of work and growth

V. Evaluation
   A. Site supervisor evaluation
   B. Instructor evaluation

Q. LABORATORY OUTLINE: None ☒ Yes ☐