

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



MASTER SYLLABUS

**COURSE NUMBER – COURSE NAME
CIVL 480 – Co-op in Civil and Environmental Engineering Technology**

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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

40 hours of internship **40 hours per credit hour (1-3 credits)**

D. **WRITING INTENSIVE COURSE:** Yes No

E. **GER CATEGORY:** None: Yes: GER
If course satisfies more than one: GER

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

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 **If yes, list below:**

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

CO-REQUISITES: None Yes **If yes, list below:**

I. STUDENT LEARNING OUTCOMES: (see key below)

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

<u>Course Student Learning Outcome</u> <u>[SLO]</u>	<u>Program Student Learning Outcome</u> <u>[PSLO]</u>	<u>GER</u> <i>[If Applicable]</i>	<u>ISLO & SUBSETS</u>	
a) Demonstrate knowledge and skills related to tasks and job assignments.			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
b) effectively communicate orally and in writing.			1-Comm Skills ISLO ISLO	O W Subsets Subsets
c) Demonstrate ability to work as part of a team and if applicable show leadership skills.			4-Soc Respons ISLO ISLO	T Subsets Subsets Subsets
d) Demonstrate awareness of economical, societal, and ethical issues related to the industry.			4-Soc Respons ISLO ISLO	ER GL IK Subsets
e) Demonstrate timeliness in completing assignments			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
f) Demonstrate continued growth and willingness to learn			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets

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KEY	<u>Institutional Student Learning Outcomes [ISLO 1 – 5]</u>
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking <i>Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem Solving [PS]</i>
3	Foundational Skills <i>Information Management [IM], Quantitative Lit./Reasoning [QTR]</i>
4	Social Responsibility <i>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</i>
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:

- | | |
|--|--|
| <input type="checkbox"/> Classroom/Lab | <input type="checkbox"/> Civic Engagement |
| <input checked="" type="checkbox"/> Internship | <input type="checkbox"/> Creative Works/Senior Project |
| <input type="checkbox"/> Clinical Placement | <input type="checkbox"/> Research |
| <input type="checkbox"/> Practicum | <input type="checkbox"/> Entrepreneurship |
| <input type="checkbox"/> Service Learning | (program, class, project) |
| <input type="checkbox"/> Community Service | |

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