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



MASTER SYLLABUS

COURSE NUMBER – COURSE NAME
MECH 480 – Co-Op Experience in Mechanical Engineering Technology

Created by: Daniel Miller

Updated by:

Canino School of Engineering Technology

Department: Mechanical & Energy Technologies

Semester/Year: Fall 2018

Α.	TITLE: Co-Op Experience in MET		
В.	COURSE NUMBER: MECH 480		
C.	<u>CREDIT HOURS</u> : (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)		
	# Credit Hours: 6! # Lecture Hours: per week # Lab Hours: per week Other: 40 hours per credit hour (1-6 credits) per week		
	Course Length: 15 Weeks		
D.	WRITING INTENSIVE COURSE: Yes No 🖂		
Е.	GER CATEGORY: None: Yes: GER If course satisfies more than one: GER		
F.	SEMESTER(S) OFFERED: Fall ☐ Spring ☐ Fall & Spring ☐		
G.	COURSE DESCRIPTION:		
placem goals. system manufa work e	ourse provides real world learning experience through professional cooperative education nent in a private/public organization related to the student's academic objectives and career. This course requires students to be involved in the design, fabrication or testing of a a, a component, a software, or a machine where real world constraints such as acturablity, safety, environment, aesthetics, and costs are important. In addition to their experience, students are required to submit (40 hr.) reaction papers, power point tation and supervisors evaluation.		
Н.	PRE-REQUISITES: None Yes If yes, list below:		
45 earn	ned credits, consent of academic advisor and approval by Dean of CSOET		
CO-REQUISITES : None ⊠ Yes ☐ If yes, list below:			

I. <u>STUDENT LEARNING OUTCOMES</u>: (see key below)

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

Course Student Learning Outcome [SLO]	<u>Program Student Learning</u> <u>Outcome</u> [PSLO]	<u>GER</u> [If Applicable]	ISLO & SUBSETS	
Demonstrate ability to plan and meet work responsibilities, and to communicate plans and progress to employer and faculty advisor			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
2. Apply project management skills on engineering/manfacturing assignments			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
3. Practice and improve professional communication skills			1-Comm Skills ISLO ISLO	Subsets Subsets Subsets Subsets
4. Practice teamwork and familiarity with economic, societal and ethical issues			4-Soc Respons ISLO ISLO	Subsets Subsets Subsets Subsets
5. Accrue experience and insight that will enhance the student's potential for career growth upon graduation			5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
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KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]
ISLO	ISLO & Subsets
#	
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 ☐ Civic Engagement ☐ Internship ☐ Creative Works/Senior Project ☐ Clinical Placement ☐ Research ☐ Practicum ☐ Entrepreneurship ☐ Service Learning (program, class, project) ☐ Community Service			
K.	<u>TEXTS</u> :			
None				
L.	REFERENCES:			
None				
М.	EQUIPMENT : None Needed:			
N.	GRADING METHOD : A-F			
О.	SUGGESTED MEASUREMENT CRITERIA/METHODS:			
Power	ur progress reports r point presentation visors evaluation			
P.	DETAILED COURSE OUTLINE:			
В. Г	ornal Daily hours worked Daily activities/observations Notation of relevance to course work			
A. (eekly (40 hr) reports Cumulative hours worked Relevant activities and observations for the week C. Reflections on activities			
A. (C. I	ortfolio Cumulative bi-weekly repmis with instructor feedback B. Site supervisor evaluations Formal Reports Photographs and other appropriate documentation			

IV. Co-Op assessment

A. Site Supervisor evaluation(s) B. Instructor evaluation

- V. Final Report/presentation

 - A. Oral presentation to faculty and/or students
 B. Summary of Co-Op experience formatted according to instructions in the Co-Op manual.

\mathbf{Q} . \mathbf{L}	ABORATORY	OUTLINE:	None 🔀	Yes	
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