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



MASTER SYLLABUS

COURSE NUMBER – COURSE NAME CONS 274 – Construction Management

Created by: J. Reilly

Updated by: A. Reiter

Canino School of Engineering Technology

Department: Civil and Environmental Technology

Semester/Year: Fall 2018

A. <u>TITLE</u>: Construction Management

B. COURSE NUMBER: CONS 274

C. CREDIT HOURS: (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 3 # Lecture Hours: 3 per week # Lab Hours: per week Other: per week

Course Length: 15 Weeks

D. <u>WRITING INTENSIVE COURSE</u>: Yes \square No \boxtimes

E. <u>GER CATEGORY</u>: None: Yes: GER *If course satisfies more than one*: GER

F. <u>SEMESTER(S) OFFERED</u>: Fall Spring Kall & Spring

G. <u>COURSE DESCRIPTION</u>:

: Construction management fundamentals and their applications to the conduct of a construction business. The basics of estimating, scheduling methods and expediting field operations, along with construction contracts, are studied.

H. <u>PRE-REQUISITES</u>: None Yes If yes, list below:

<u>CO-REQUISITES</u>: 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]	<u>ISLO & SUBSETS</u>	
Use appropriate vocabulary in discussing fundamental features of a construction contract.	2488: 1a,7b 517: 162:		5-Ind, Prof, Disc, Know Skills 1-Comm Skills ISLO	Subsets O Subsets Subsets
Demonstrate an understanding of the ethical issues and social implications associated with construction contracts and project delivery	2488: 1ab,2a,11a 517: 162:		5-Ind, Prof, Disc, Know Skills 1-Comm Skills ISLO	Subsets W Subsets Subsets
Use professional-related literature (magazines) to report on current practice and techniques associated with civil engineering and construction projects.	2488: 1ab,8b,10,11ab 517: 162:		5-Ind, Prof, Disc, Know Skills 1-Comm Skills ISLO	Subsets W Subsets Subsets
Create a CPM network diagram manually and determine ES, EF, LS, LF and total float	2488: 1ab,11ab 517: 162:		5-Ind, Prof, Disc, Know Skills 2-Crit Think ISLO	Subsets CA Subsets Subsets
Use a software application (ie., MS Project, Primavera, Suretrack) to produce and display a construction project schedule	2488: 1b 517: 162:		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. <u>APPLIED LEARNING COMPONENT:</u>

Yes 🛛 No 🗌

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

Classroom/LabCivic EngagementInternshipCreative Works/Senior ProjectClinical PlacementResearchPracticumEntrepreneurshipService Learning(program, class, project)Community ServiceCommunity Service

K. <u>TEXTS</u>:

Construction Management Fundamentals, 2rd edition, by Knutson, Schexnayder, Fiori, Mayo. McGraw Hill, ISBN-13: 978-0-07-340104-

L. <u>REFERENCES</u>:

: Engineering News Record (ENR)-available in NS117, on-line and in the library. Civil Engineering journal (available in the surveying lab and library)

M. <u>EQUIPMENT</u>: None Needed:

N. **<u>GRADING METHOD</u>**: A-F

0. <u>SUGGESTED MEASUREMENT CRITERIA/METHODS</u>:

Exams Homework Quizzes Instructor evaluation

P. <u>DETAILED COURSE OUTLINE</u>:

- Construction Management history
- Project cost control
- Scheduling
- Estimating
- Contracts and administration
- Accounting, record keeping
- Equipment selection and cost
- Quality, productivity and safety

Q. <u>LABORATORY OUTLINE</u>: None X Yes