

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



MASTER SYLLABUS

CMGT 100 - Introduction to Construction Management

Created by: A. Reiter

Updated by:

Canino School of Engineering Technology

Department: Civil and Construction Technology

Semester/Year: Fall 2020

A. **TITLE:** Introduction to Construction Management

B. **COURSE NUMBER:** CMGT 100

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. **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 is an introduction to concepts/terminology in the construction industry, business aspects of running a construction project, communication methods in construction, career planning and options for a career in Construction Management, project management protocols, ethical issues in construction, job site conduct protocol and other attributes of working in the construction industry. In class exercises and assignments emphasize teamwork skills, time management, communication skills, development of properly formatted deliverables, and basic problem solving eg. unit conversions, area and volume calculations plus critical thinking skills.

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

MATH 123 Pre-Calculus or higher, or permission of the instructor

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

MATH 123 Pre-Calculus or higher

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> <u>[If Applicable]</u>	<u>ISLO & SUBSETS</u>	
1. Define key vocabulary as related to the construction management industry.	SO 5		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
2. Develop and implement planning, time management and record keeping skills in a professional and organized manner	SO 6 + 7		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
3. Implement key leadership skills required for successful construction Managers.	SO4		4-Soc Respons ISLO ISLO	T Subsets Subsets Subsets
4. Explain the principles of construction safety and the implication of quantity control, site layout and quality managemnt	SO5		5-Ind, Prof, Disc, Know Skills ISLO ISLO	Subsets Subsets Subsets Subsets
5. Demonstrate basic print reading, quantity takeoff techniques utilizing key mathematical concepts required for managers	SO2, 5, and 8		2-Crit Think ISLO ISLO	PS 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:

- Classroom/Lab
- Internship
- Clinical Placement
- Practicum
- Service Learning
- Community Service

- Civic Engagement
- Creative Works/Senior Project
- Research
- Entrepreneurship
(program, class, project)

K. TEXTS:

None required

L. REFERENCES:

Construction Project Management 4th edition, Frederick Gould, Nancy Joyce, ISBN-13:
9780132877947

M. EQUIPMENT: None Needed:

N. GRADING METHOD: A-F

O. SUGGESTED MEASUREMENT CRITERIA/METHODS:

Assignments, Exams, In-Class Exercises and Quizzes, Written Report(s), and Oral Presentation(s)

P. DETAILED COURSE OUTLINE:

I. The Construction Industry

- career choices
- Planning for your career

II. Organizing and Leading the Construction Project

- leadership skills
- Organizational skills
- Communication skills
- Time management

III. Project administration skills

- relating to and dealing with personality traits

IV. Essential math skills

- unit conversions
- Area calculations
- Volume calculations

V. Computer usage for Construction Managers

- Generating professional looking documents
- spreadsheets

VI. Print reading

- Understanding print layout
- navigating various prints

Q. LABORATORY OUTLINE: None Yes