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:

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1. Define key vocabulary as related to the construction management industry.</td>
<td>SO 5</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets</td>
</tr>
<tr>
<td>2. Develop and implement planning, time management and record keeping skills in a professional and organized manner</td>
<td>SO 6 + 7</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets</td>
</tr>
<tr>
<td>3. Implement key leadership skills required for successful construction Managers.</td>
<td>SO4</td>
<td>4-Soc Respons ISLO ISLO</td>
<td>T Subsets Subsets Subsets</td>
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<tr>
<td>4. Explain the principles of construction safety and the implication of quantity control, site layout and quality management</td>
<td>SO5</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets</td>
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<tr>
<td>5. Demonstrate basic print reading, quantity takeoff techniques utilizing key mathematical concepts required for managers</td>
<td>SO2, 5, and 8</td>
<td>2-Crit Think ISLO ISLO</td>
<td>PS Subsets Subsets Subsets</td>
</tr>
<tr>
<td>KEY</td>
<td>Institutional Student Learning Outcomes [ISLO 1 – 5]</td>
<td>ISLO &amp; Subsets</td>
<td></td>
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<tr>
<td>ISLO #</td>
<td><strong>Communication Skills</strong></td>
<td>Oral [O], Written [W]</td>
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<tr>
<td>1</td>
<td><strong>Critical Thinking</strong></td>
<td>Critical Analysis [CA], Inquiry &amp; Analysis [IA], Problem Solving [PS]</td>
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<td>2</td>
<td><strong>Foundational Skills</strong></td>
<td>Information Management [IM], Quantitative Lit./Reasoning [QTR]</td>
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<td>3</td>
<td><strong>Social Responsibility</strong></td>
<td>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</td>
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<td>4</td>
<td><strong>Industry, Professional, Discipline Specific Knowledge and Skills</strong></td>
<td></td>
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<td>5</td>
<td><em>Include program objectives if applicable. Please consult with Program Coordinator</em></td>
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</tbody>
</table>
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:**


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 ☐