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

MASTER SYLLABUS

COURSE NUMBER – COURSE NAME
CMGT 323 – Commercial Estimating 2

Created by: J. Reilly

Updated by:

Canino School of Engineering Technology

Department: Civil and Construction Technology

Semester/Year: Fall 2020
A. **TITLE:** Commercial Estimating 2

B. **COURSE NUMBER:** CGMT 323

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

- # Credit Hours: 3
- # Lecture Hours: 1 per week
- # Lab Hours: 4 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:**

The student who is already familiar with estimating is challenged to perform more sophisticated work. Electronic Takeoff and Pricing software is employed extensively in the estimate of costs for complex commercial projects. In addition to material, labor and equipment, estimation of indirect costs are included. A large scale estimating project is required as part of this course.

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

CMGT 322 Commercial Estimating 1; or permission of instructor

**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:

<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>
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<tbody>
<tr>
<td>1. Demonstrate the ability to perform takeoffs from a variety of construction divisions associated with a complex project</td>
<td>SO 8</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets</td>
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<td>2. Employ estimating software efficiently to perform “e-takeoffs”</td>
<td>SO6 and 8</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets</td>
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<td>3. Employ estimating software to complete the extension (pricing) and compute costs.</td>
<td>SO 6 and 8</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets</td>
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<td>4. Determine the indirect costs (overhead) and include in cost estimates</td>
<td>SO 8</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets</td>
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<td>5. Submit a facsimile bid for a complex project</td>
<td>SO 7</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets</td>
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<td>ISLO #</td>
<td><strong>Institutional Student Learning Outcomes [ISLO 1 – 5]</strong></td>
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<td><strong>ISLO &amp; Subsets</strong></td>
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</table>
| 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
☐ Internship
☐ Clinical Placement
☐ Practicum
☐ Service Learning
☐ Community Service

☐ Civic Engagement
☐ Creative Works/Senior Project
☐ Research
☐ Entrepreneurship

(program, class, project)
K. **TEXTS:**
None

L. **REFERENCES:**
ISBN-10: 0826905455


M. **EQUIPMENT:** None ☒ Needed:

N. **GRADING METHOD:** A-F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**
Exams
Quizzes
projects
Homework

P. **DETAILED COURSE OUTLINE:**

1. Review of Takeoffs
2. Practice Project(s)
3. Use of software databases to obtain prices
4. Extension using software
5. Use of software to perform Takeoffs
6. Concrete e-takeoff and pricing
7. Masonry e-takeoff and pricing
8. Interior walls and finish e-takeoff and pricing
9. Profit and overhead costs
10. Completing the Bid
11. Project

Q. **LABORATORY OUTLINE:** None ☐ Yes ☒

The lab outline will follow the topical outline. During the lab, students will perform estimating activities, ie; do “take-offs” from construction drawings and extensions using computer software) to agree with the material being covered in the lecture.