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

   **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>
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<tr>
<th><strong>Course Student Learning Outcome [SLO]</strong></th>
<th><strong>Program Student Learning Outcome [PSLO]</strong></th>
<th><strong>GER [If Applicable]</strong></th>
<th><strong>ISLO &amp; SUBSETS</strong></th>
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| 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  
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<td>KEY</td>
<td>Institutional Student Learning Outcomes [ISLO 1 – 5]</td>
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| 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:**


L. **REFERENCES:**

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

M. **EQUIPMENT:** None ☒ Needed:

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

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

Exams
Homework
Quizzes
Instructor evaluation

P. **DETAILED COURSE OUTLINE:**

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

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