

**Oklahoma State University Institute of Technology**  
**Online Common Syllabus**  
Fall 2017

**CET 2103 – CONSTRUCTION MANAGEMENT AND ECONOMICS**

Students learn and apply their knowledge of economic principles in making decisions and choosing among alternatives. It includes the study of basis of equivalent worth, rate of return, payback analysis, estimating, scheduling, and an overview of the construction industry.

**Course Purpose:**

The purpose of this course is to introduce traditional construction management and engineering economic principles to the learner through a mixture of homework, quizzes, exams and projects.

**Type of Course:** Theory

**Credit Hours:** 3; Total clock hours of theory per semester: 45;

Total clock hours of lab per semester: none; Total clock hours of clinical per semester: none.

**Class Length:** Full Semester

**Class Format:** Hybrid

**Class Days and Times:** 10:00am – 11:25am W (9/6, 9/13, 9/20, 9/27)

**Prerequisites:** MATH 1513 College Algebra

**Instructor Name:** Casey Campbell                      **Instructor Phone:** (918) 293-5263

**Office:** Hospitality Services (AKA Culinary Arts building on campus map), Rm. 14

**Instructor Email:** casey.campbell@okstate.edu

**Contact:** My preferred method of contact is email. Please allow 24-48 hours to return your correspondence during the normal work week.

**Instructor's Office Hours:** Posted on office door.

**School Name:** Engineering Technologies

**School Main Phone:** 918-293-5150

**REQUIRED TEXT, REFERENCES, AND MATERIALS**

**Texts:** Custom “Create” Book by McGraw Hill ISBN-10: 1121149854;  
ISBN- 13: 9781121149854

**Cost:** *Bookstore Price - \$128.05*

**References:** None

**Materials:** Scientific Calculator  
HP 35s (Recommended) *Bookstore Price - \$60.00*  
TI-30xa (Sufficient) *Bookstore Price - \$13.20*  
External Data Storage Device *Bookstore Price - \$8.70*  
Field Book *Bookstore Price - \$5.75*  
Notebooks *Bookstore Price - \$3.05*  
Engineers Scale *Bookstore Price - \$2.70*  
Writing Utensils *Bookstore Price - \$0.95*

**Uniform/Tools:** None

**Estimated Cost for Materials:** \$ 81.15 (Recommended) / \$ 34.35 (Sufficient)

**Optional Resources:** Microsoft Excel

**Upon completion of the course, students should:**

	<b>Course Objectives</b>	<b>Assessment of Objectives</b>	<b>University Student / ABET Outcome Assessment</b>
*	Solve for the present, annual, or future worth for engineering economics problems;	Exam	University Outcome #2
*	Calculate quantities and related costs associated with construction plans;	Project	University Outcome #17
**	An ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;	Project	ABET Outcome g
**	A knowledge of the impact of engineering technology solutions in a societal and global context;	Homework	ABET Outcome j

Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (\*) above indicates this assignment is used in the university assessment program. If applicable, a double asterisk (\*\*) above indicates this assignment is used in the ABET assessment of student learning in the Civil Engineering Technology Program.

### **COURSE ACTIVITIES**

In this course students will:

- *Participate in class discussions and activities.*
- *View videos that depict the various concepts.*
- *Participate in group and individual presentations.*
- *Take examinations.*
- *Complete reading assignments.*
- *May be required to do quizzes.*

**EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION OF THESE TASKS:** *(NOTE- Please indicate the course-specific evaluations. List assignment(s) used in the university's assessment of student learning as separate line items and marked with an asterisk.)*

Discussion Posts	19 %
Syllabus Quiz	1%
Homework	20%
Project**	20%
Unit Exam*	20%
<u>Final Exam**</u>	<u>20%</u>
<b>Total</b>	<b>100%</b>

<b>OSUIT Grading Scale</b>
A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% & below

\*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade. If applicable, a double asterisk (\*\*) above indicates this assignment is used in the ABET assessment of student learning in the Civil Engineering Technology Program.

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.

Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

**RECOMMENDED STUDENT COMPETENCIES/SKILLS**

Microsoft Excel

**AUTHORIZED TOOLS**

All quizzes and written assignments are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty.

**LATE WORK**

All assignments and Tests will have specific due dates and are expected to be completed and turned in before class time on that date. Students will be given ample time to complete all tasks before they are due. No late assignments or test will be accepted, any work turned in after it's designated due date WILL NOT be graded and result in a zero. There will be NO MAKEUP WORK offered for this course.

**TESTING**

Exams will be taken online, through the Quizzes Tool in Brightspace; each exam is open book. Information for the exams is derived from the assigned readings. Exams are graded automatically, and the grade appears in the online grade book immediately upon completion of an exam. Each exam has a date deadline, and failure to meet this deadline will result in a **zero** for that exam. **There will be no make-up exams.** Please become familiar with the syllabus schedule.

### **OTHER LAB AND CLASSROOM POLICIES**

**Emails:** All emails sent to the instructor will require the course name, prefix, number and section number in the subject line (*Example.* SURV 1011 – Introduction to Surveying 60348). Emails without the required information will be sent back.

**Assignments:** All assignments require name, date, and assignment number if expected to be graded.

### **ONLINE COURSE INTERACTION**

OSUIT requires all online courses to include interaction between students, peers and instructors. Our online courses use a variety of tools to build a community of learners and strengthen engagement between students and their peers, as well as between students and the instructor. Communication tools used in courses may include Discussion, News, and Email. Read the syllabus completely to determine which of these methods you, your classmates and your instructor will use for interaction.

General guidelines for student conduct while interacting within an online course include: (1) Use proper language in all communications; (2) Harassment of any type will not be tolerated; (3) No jokes, insults or threats of an offensive nature.

For more information, go to: <http://osuit.edu/center/netiquette>

### **SYLLABUS ATTACHMENT**

View the Syllabus Attachment, which contains other important information, by visiting [http://osuit.edu/center/student\\_syllabus\\_information](http://osuit.edu/center/student_syllabus_information)

<b>Course Outline Schedule</b>	<b>Topic</b>	<b>Assignments</b>
Week 1	Syllabus (and quiz), Intro, D2L review, Go over Chapter 1 Econ notes, Chapter 2 Econ	Read Text, Lectures, Notes, Supplemental Material, Syllabus Exercise HW 1, Discussion Post
Week 2	Ch 4 CM notes Ch 4 CM homework help (if needed), Introduce project	Read Text, Lectures, Notes, Supplemental Material, HW 2, Discussion Post
Week 3	Econ Ch 3 CM Ch 2	Read Text, Lectures, Notes, Supplemental Material, HW 3, Discussion Post
Week 4	Econ Ch 4 Project Part 1 Due	Read Text, Lectures, Notes, Supplemental Material, HW 4, Discussion Post
Week 5	Econ Ch 5 CM Ch 3	Read Text, Lectures, Notes, Supplemental Material, HW 5, Discussion Post
Week 6	Econ Ch 6 Econ Ch 7	Read Text, Lectures, Notes, Supplemental Material, HW 6, Discussion Post
Week 7	Exam #1 Review (Test over Econ Ch 1 - 5, CM Ch 4, 2, 3)	Exam #1 Discussion Post
Week 8	Econ Ch 8 CM ppt 5	Read Text, Lectures, Notes, Supplemental Material, HW 7, Discussion Post
Week 9	CM Ch 6 CM Ch 7 Project part 2 due	Read Text, Lectures, Notes, Supplemental Material, HW 8, Discussion Post
Week 10	Econ Ch 9 Econ Ch 10	Read Text, Lectures, Notes, Supplemental Material, HW 9, Discussion Post
Week 11	Econ Ch 11 CM Ch 8	Read Text, Lectures, Notes, Supplemental Material, HW 10, Discussion Post
Week 12	Econ Ch 12 Project part 3 due	Read Text, Lectures, Notes, Supplemental Material, HW 10, Discussion Post
Week 13	Work on project part 4 Thanksgiving	Project, Discussion Post,
Week 14	Test 2 Review Project part 4 due	Exam Review/Project, Discussion Post
Week 15	Exam #2	Final Exam, Discussion Post

Schedule is subject to change at instructor discretion.