

### Course Outline

**COURSE:** CMGT 101      **DIVISION:** 50      **ALSO LISTED AS:**

**TERM EFFECTIVE:** Fall 2020      **CURRICULUM APPROVAL DATE:** 03/10/2020

**SHORT TITLE:** CONCEPTS CONSTRUCTION MGT

**LONG TITLE:** Concepts of Construction Management

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
3	18	Lecture:	3	54
		Lab:	0	0
		Other:	0	0
		Total:	3	54
		Total Learning Hrs.	162	

**COURSE DESCRIPTION:**

Introduction to the fundamental concepts and an overview of the elements associated with construction management operations.

**PREREQUISITES:**

**COREQUISITES:**

**CREDIT STATUS:** D - Credit - Degree Applicable

**GRADING MODES**

L - Standard Letter Grade

**REPEATABILITY:** N - Course may not be repeated

**SCHEDULE TYPES:**

02 - Lecture and/or discussion

05 - Hybrid

72 - Dist. Ed Internet Delayed

## **STUDENT LEARNING OUTCOMES:**

By the end of this course, a student should:

1. Identify the fundamental concepts associated with the construction industry.
2. Prepare an overview of the essential elements associated with the construction profession.

## **CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS**

Curriculum Approval Date: 03/10/2020

3 Hours

Content: Introduction. Discussion on Construction Management and the Construction Management Industry.

Student Performance Objectives: Define construction management. Discuss the construction management industry.

3 Hours

Content: Quiz on Construction Terms. Discussion on Project Stages.

Student Performance Objectives: Identify the different stages of a project and discuss what they involve.

4 Hours

Content: Discussion on Team Player Roles and Responsibilities. Quiz. Discussion on Project Delivery Systems.

Student Performance Objectives: Describe the different roles and responsibilities of the `team??. Explain the process of a project delivery system.

3 Hours

Content: Discussion on Contracts. Quiz.

Student Performance Objectives: Explain the various types of construction contract formats.

3 Hours

Content: Discussion on Construction Documents. Quiz.

Student Performance Objectives: Explain the various construction communication documents and their uses.

3 Hours

Content: Exam. Discussion on Estimating.

Student Performance Objectives: Define the various type of construction cost estimates.

3 Hours

Content: Estimating continued. Quiz. Discussion on Construction Start-up.

Student Performance Objectives: Examine the various ?Cost Types? of an estimate. Explain the difference between direct and indirect costs.

3 Hours

Content: Quiz. Discussion on Pre-construction/Site Utilization.

Student Performance Objectives: Name the steps to managing a construction site. Explain what a site utilization plan is.

6 Hours

Content: Discussion on Safety Plan. Quiz. Discussion on Quality Control.

Student Performance Objectives: Inspect a construction sites safety plan. Discuss the importance of quality control as it relates to construction management.

3 Hours

Content: Discussion on Project Scheduling.

Student Performance Objectives: Define the fundamentals of CPM (Critical Path Method) scheduling.

3 Hours

Content: Exam. In-Class Scheduling Exercise.

Student Performance Objectives: Complete the in-class scheduling activity.

3 Hours

Content: Discussion on Cost Management. Discussion on Documenting the Work. Quiz.

Student Performance Objectives: Recognize what liquidated damages are. Discuss construction accounting and cost control.

3 Hours

Content: Discussion on Coordinating the Work. Quiz.

Student Performance Objectives: Discuss the importance of a coordinated work effort.

3 Hours

Content: Discussion on Project Closeout. Quiz.

Student Performance Objectives: Explain what closeout means in construction. Identify the various construction management closeout procedures and processes.

6 Hours

Content: Discussion on Legal Implications of Contract Clauses. Discussion on Ethics in Construction. Review for final.

Student Performance Objectives: List the five red flag provisions of a contract. Discuss the importance of ethics in construction.

2 Hours

Final Exam

#### **METHODS OF INSTRUCTION:**

lecture, discussion, multi-media presentation

#### **OUT OF CLASS ASSIGNMENTS:**

Required Outside Hours: 36

Assignment Description:

Complete assigned readings.

Required Outside Hours: 45

Assignment Description: Complete assigned CM activities, such as: CM Aptitude Questionnaire. What is Construction Management. Company Pre-Session Activity. Discussion Recap. Advising. Estimating. Scheduling.

Required Outside Hours: 27

Assignment Description:

Review and study for quizzes and exams.

**METHODS OF EVALUATION:**

Objective examinations

Percent of total grade: 75.00 %

60% - 80% Exams, Quizzes

Problem-solving assignments

Percent of total grade: 10.00 %

10% - 20% Assignments

Other methods of evaluation

Percent of total grade: 15.00 %

10% - 20% Participation in class discussions.

**REPRESENTATIVE TEXTBOOKS:**

Fred Sherratt. Introduction to Construction Management . Routledge Publisher,2017.

Reading Level of Text, Grade: 12th Verified by: MS Word

**ARTICULATION and CERTIFICATE INFORMATION**

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 202070

UC TRANSFER:

Not Transferable

**SUPPLEMENTAL DATA:**

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education: N

Program Status: 1 Program Applicable

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department: CMGT

CSU Crosswalk Course Number:

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: D

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000615598

Sports/Physical Education Course: N

Taxonomy of Program: 095700

