



Course Number and Title: CMT 244 Construction Project Management II

Campus Location:

Georgetown, Dover, Stanton

Effective Date:

2018-52

Prerequisite:

ENG 102, ACC 101 or concurrent or OAT 152, CMT 235, CMT 242

Co-Requisites:

none

Course Credits and Hours:

4.00 credits

3.00 lecture hours/week

2.00 lab hours/week

Course Description:

This course further develops an understanding of project management using productivity software. Primary topics include job organization and coordination, project scheduling, critical path method (CPM) scheduling techniques, materials management, cost estimates, and reporting. Emphasis is placed on commercial construction contracts, including planning, scheduling, controlling, and analyzing project progress.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:

None

Schedule Type:

Classroom Course

Web Conferencing

Disclaimer:

None

Core Course Performance Objectives (CCPOs):

1. Relate knowledge of project management to construction operations. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3)
2. Outline key pre-construction planning issues. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3)
3. Organize a project schedule using productivity software. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3)
4. Synthesize submittal data. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3)
5. Develop records and resource profiles for completed and ongoing construction projects. (CCC 1, 2, 4, 6; PGC 1, 2, 3)
6. Analyze how time affects the associated project costs and final closeout documentation. (CCC 1, 2, 3, 4, 5, 6; PGC 2, 3)
7. Demonstrate professional and ethical conduct as expected in industry. (CCC 1, 2, 3, 4, 5, 6; PGC 3, 5)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Performance Objectives (MPOs):

Upon completion of this course, the student will:

1. Relate knowledge of project management to construction operations.
 1. Determine the variables that affect project management.
 2. Define the role of communication in monitoring the project schedule.
 3. Categorize the primary management functions in the project control cycle.
2. Outline key pre-construction planning issues.
 1. Determine the different coding schemes used in project scheduling.
 2. Explain the project control cycle.
 3. List the specific tasks in project cost control.
3. Organize a project schedule using productivity software.
 1. Classify the issues in project control that are of key importance in pre-planning the construction project.
 2. Determine the most important elements in successful procurement procedures.
4. Synthesize submittal data.
 1. Establish the organization and procedures of the project management team.
 2. Work as a team member on project coordination, refinement, and development.
 3. Coordinate project information in person, by phone, and via electronic means.
 4. Perform assigned tasks effectively in groups of students from diverse backgrounds.
5. Develop records and resource profiles for completed and ongoing construction projects.
 1. Determine the primary phases of projects scheduling and the specific activities in each.
 2. Apply the CPM to a schedule for a small commercial project.
 3. Summarize the role computer applications have in the project scheduling and management process.
6. Analyze how time affects the associated project costs and final closeout documentation.
 1. Classify the major documents used in project management and their organization.
 2. Summarize submittal procedures for items such as shop drawings and samples.
 3. Determine the uses and the sequence for the various types of documentation in contract modification: change order request, construction change directive, and change order.
7. Demonstrate professional and ethical conduct as expected in industry.
 1. Identify the need for self-discipline and time management in technical industries.
 2. Communicate and function effectively as a member of a team.

Evaluation Criteria/Policies:

Students must demonstrate proficiency on all CCPOs at a minimal 75 percent level to successfully complete the course. The grade will be determined using the Delaware Tech grading system:

92	-	100	=	A
83	-	91	=	B
75	-	82	=	C
0	-	74	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):

1. Estimate material quantities for technical projects.
2. Interpret and compile construction drawings and project manual.
3. Employ project management skills as they relate to constructions projects.
4. Use productivity software to develop a project record.
5. Demonstrate a commitment to quality, timeliness, professional development and continuous improvement.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.

