



COURSE OUTLINE: CCT0120 - CONCRETE FORMWORK 1

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Approved: Martha Irwin, Chair, Community Services and Interdisciplinary Studies

Course Code: Title	CCT0120: CONCRETE AND FORMWORK 1
Program Number: Name	1120: COMMUNITY INTEGRATN 4080: CIVIL ENG TECHNICIAN 4098: CONSTRUCTION TECH
Department:	C.I.C.E.
Semesters/Terms:	20W
Course Description:	This course focuses on the methods and procedures used in the placement of concrete and form setting. Students will learn about equipment and tools used in concrete placement, and will learn to install concrete and grout material as well as reinforcement components. Students will also learn to interpret blueprints for form setting activities and the use of form setting tools.
Total Credits:	4
Hours/Week:	4
Total Hours:	60
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Essential Employability Skills (EES) addressed in this course:	EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others. EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	Passing Grade: 50%, D
Other Course Evaluation & Assessment Requirements:	EVALUATION PROCESS/GRADING SYSTEM: Theory Testing 35% Application Exercises 50% Attendance 15% Total 100% Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00 A 80 - 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00



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F (Fail)49% and below 0.00

CR (Credit) Credit for diploma requirements has been awarded.

S Satisfactory achievement in field /clinical placement or non-graded subject area.

U Unsatisfactory achievement in field/clinical placement or non-graded subject area.

X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.

NR Grade not reported to Registrar's office.

W Student has withdrawn from the course without academic penalty.

Course Outcomes and Learning Objectives:

Upon successful completion of this course, the CICE student, with the assistance of a Learning Specialist will acquire varying levels of skill development relevant to the following learning outcomes:

Course Outcome 1	Learning Objectives for Course Outcome 1
1. Solve on-site related construction problems using mathematical equations and geometric concepts	1.1 Calculate footing and wall elevations 1.2 Calculate volumes and quantities of concrete required for footings and walls
Course Outcome 2	Learning Objectives for Course Outcome 2
2. Select maintain and safely operate hand and power tools and equipment used in the building construction trades.	2.1 Select, use and maintain hand tools, portable and stationary power tools 2.2 Use rakes, shovels and wheelbarrows 2.3 Select and use materials, fasteners and connectors commonly used in the construction industry. 2.4 Operate and safely maintain pneumatic hammers and vibrators 2.5 Tend to concrete mixers used in construction 2.6 Use survey equipment to layout concrete formwork
Course Outcome 3	Learning Objectives for Course Outcome 3
3. Assist in the preparation of project estimates.	3.1 Apply basic quantity surveying principles to assist in concrete and formwork takeoff and ordering 3.2 Assist in the calculation of quantities for concrete and formwork 3.3 Use industry standards relating to allowances for material and time allotments for labour calculations
Course Outcome 4	Learning Objectives for Course Outcome 4
4. Assist skilled tradespersons and perform laboring tasks at construction sites.	4.1 Load and unload construction materials and move materials to work area. 4.2 Remove rubble and debris at construction sites 4.3 Build and dismantle concrete forms 4.4 Mix, pour and spread concrete 4.5 Assist concrete finishers 4.6 Construct forms for footings, flatwork, foundation and walls
Course Outcome 5	Learning Objectives for Course Outcome 5
5. Communicate technical information to a variety of clients, supervisors and tradesperson to participate in the successful completion of construction projects.	5.1 Use industry specific terminology as it relates to building materials, projects and trades 5.2 Read and interpret construction documents including drawings, specifications and schedules 5.3 Maintain project records, logs and schedules



Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Application Exercises	50%
Attendance	15%
Theory testing	35%

CICE Modifications:

Preparation and Participation

1. A Learning Specialist will attend class with the student(s) to assist with inclusion in the class and to take notes.
2. Students will receive support in and outside of the classroom (i.e. tutoring, assistance with homework and assignments, preparation for exams, tests and quizzes.)
3. Study notes will be geared to test content and style which will match with modified learning outcomes.
4. Although the Learning Specialist may not attend all classes with the student(s), support will always be available. When the Learning Specialist does attend classes he/she will remain as inconspicuous as possible.

A. Further modifications may be required as needed as the semester progresses based on individual student(s) abilities and must be discussed with and agreed upon by the instructor.

B. Tests may be modified in the following ways:

1. Tests, which require essay answers, may be modified to short answers.
2. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
3. Tests, which use fill in the blank format, may be modified to include a few choices for each question, or a list of choices for all questions. This will allow the student to match or use visual clues.
4. Tests in the T/F or multiple choice format may be modified by rewording or clarifying statements into layman's or simplified terms. Multiple choice questions may have a reduced number of choices.

C. Tests will be written in CICE office with assistance from a Learning Specialist.

The Learning Specialist may:

1. Read the test question to the student.
2. Paraphrase the test question without revealing any key words or definitions.
3. Transcribe the student's verbal answer.
4. Test length may be reduced and time allowed to complete test may be increased.

D. Assignments may be modified in the following ways:

1. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
2. Some assignments may be eliminated depending on the number of assignments required in the particular course.

The Learning Specialist may:

1. Use a question/answer format instead of essay/research format



2. Propose a reduction in the number of references required for an assignment
3. Assist with groups to ensure that student comprehends his/her role within the group
4. Require an extension on due dates due to the fact that some students may require additional time to process information
5. Formally summarize articles and assigned readings to isolate main points for the student
6. Use questioning techniques and paraphrasing to assist in student comprehension of an assignment

E. Evaluation:

Is reflective of modified learning outcomes.

NOTE: Due to the possibility of documented medical issues, CICE students may require alternate methods of evaluation to be able to acquire and demonstrate the modified learning outcomes

Date: December 19, 2019

Addendum: Please refer to the course outline addendum on the Learning Management System for further information.

