



## COURSE OUTLINE: CCT103 - BLUEPRINTS & LAYOUT

Prepared: Marc Pilon

Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

<b>Course Code: Title</b>	CCT103: BLUEPRINTS, SPECIFICATIONS & LAYOUT
<b>Program Number: Name</b>	4080: CIVIL ENG TECHNICIAN 4098: CONSTRUCTION TECH
<b>Department:</b>	CIVIL/CONSTRUCTION
<b>Semesters/Terms:</b>	20F
<b>Course Description:</b>	<p>This course will provide the student with an introduction to the preparation and interpretation of construction drawings (prints) and specifications. The student will learn how drawings and specifications are organized as well as a systematic approach for drawing review.</p> <p>The student will also be introduced to the concepts of construction work measurement and layout using a variety of techniques. The student will also be given an introduction to CAD (computer-aided drawing) with an emphasis on locating and collecting data from CAD drawings.</p>
<b>Total Credits:</b>	4
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	45
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>	<p><b>4080 - CIVIL ENG TECHNICIAN</b></p> <p>VLO 3 complete duties and assist in monitoring that work is performed in compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in the civil engineering field.</p> <p>VLO 5 collaborate with the project team and communicate effectively with project stakeholders to support civil engineering projects.</p> <p>VLO 6 collect, process and interpret technical data to produce written and graphical project-related documents.</p> <p>VLO 7 use industry-specific electronic and digital technologies to support civil engineering projects.</p> <p><b>4098 - CONSTRUCTION TECH</b></p> <p>VLO 6 Communicate technical information to a variety of clients, supervisors and tradespersons to participate in the successful completion of construction projects.</p>
<b>Essential Employability Skills (EES) addressed in this course:</b>	<p>EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p>

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.



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EES 3 Execute mathematical operations accurately.  
 EES 4 Apply a systematic approach to solve problems.  
 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

A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.

**Other Course Evaluation & Assessment Requirements:**

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  
 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.

**Attendance**

Students are only allowed to miss three classes (where attendance is recorded) without a documented explanation. One mark will be deducted from your overall grade for each undocumented explanation. The maximum deduction in overall grade is not to exceed 15%.

Valid documented explanation include:

- Medical reason
- Family emergency
- Child care issue
- Transportation problems
- And any other reasonable explanation

The documented explanation has to be sent to the course professor by e-mail no later than three days from a missed class. A Doctor note, etc., is to be attached as a PDF file to your e-mail.

**Books and Required Resources:**

Understanding Construction Drawings for Housing and Small Buildings by Tom Stephenson  
 Publisher: Nelson Education, Publishers Edition: 3rd edition  
 ISBN: 0-17-653155-6

Metric Scale by Metric Measuring Tape

**Course Outcomes and Learning Objectives:**

Course Outcome 1	Learning Objectives for Course Outcome 1
Upon successful completion, the student will be able to:	

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	1. Complete duties and assist in monitoring that work is performed in compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in the civil engineering field.	1.1 Read and interpret relevant building codes i.e., Ontario Building Code 1.2 Select and use equipment, materials and practices that comply with relevant legislation, standards, codes and bylaws.
	<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>
	Upon successful completion, the student will be able to: 2. Collaborate with the project team and communicate effectively with project stakeholders to support civil engineering projects.	2.1 Identify the disciplines involved in the planning, designing and implementation of civil engineering and construction projects (i.e., Architecture, Surveying, Structural, Mechanical, Electrical, Environmental) 2.2 Identify the relationships among the various disciplines involved in civil engineering projects.
	<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
	Upon successful completion, the student will be able to: 3. Collect, process and interpret technical data to produce written and graphical project-related documents.	3.1 Collect, interpret and check data by using systematic approaches in accordance with recognized standards and practices. 3.2 Select and use appropriate technologies to produce documents for civil engineering and construction projects. 3.3 Use relevant information to construct models for civil and construction projects by using drawings and computer assisted technologies. 3.4 Read the criteria for the project and identify appropriate information sources. 3.5 Use systematic approaches and paper based and computerized techniques to collect civil engineering data. 3.6 Collect and organize project related information in a retrievable manner according to approved techniques.
	<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
	Upon successful completion, the student will be able to: 4. Use industry-specific electronic and digital technologies to support civil engineering projects.	4.1 Select and use industry specific electronic and digital technologies to design projects, produce plans and to solve project related problems (e.g., CAD, Building Information Modeling)

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
Assignments and Activities	20%
Chapter Quizzes	50%
Final Test	15%

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	Mid-term Test	15%
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**Date:** June 11, 2020

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

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