



COURSE OUTLINE: CCT103 - BLUEPRINTS & LAYOUT

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	CCT103: BLUEPRINTS, SPECIFICATIONS & LAYOUT
Program Number: Name	4080: CIVIL ENG TECHNICIAN 4098: CONSTRUCTION TECH
Department:	CIVIL/CONSTRUCTION
Semesters/Terms:	19F
Course Description:	<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>
Total Credits:	4
Hours/Week:	3
Total Hours:	45
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Vocational Learning Outcomes (VLO's) addressed in this course:	4080 - CIVIL ENG TECHNICIAN
Please refer to program web page for a complete listing of program outcomes where applicable.	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.
	VLO 5 collaborate with the project team and communicate effectively with project stakeholders to support civil engineering projects.
	VLO 6 collect, process and interpret technical data to produce written and graphical project-related documents.
	VLO 7 use industry-specific electronic and digital technologies to support civil engineering projects.
Essential Employability Skills (EES) addressed in this course:	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.
	EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.
	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



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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: 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.
Course Outcome 2	Learning Objectives for Course Outcome 2
Upon successful completion, the student will	



	<p>be able to:</p> <p>2. Collaborate with the project team and communicate effectively with project stakeholders to support civil engineering projects.</p>	<p>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)</p> <p>2.2 Identify the relationships among the various disciplines involved in civil engineering projects.</p>
	Course Outcome 3	Learning Objectives for Course Outcome 3
	<p>Upon successful completion, the student will be able to:</p> <p>3. Collect, process and interpret technical data to produce written and graphical project-related documents.</p>	<p>3.1 Collect, interpret and check data by using systematic approaches in accordance with recognized standards and practices.</p> <p>3.2 Select and use appropriate technologies to produce documents for civil engineering and construction projects.</p> <p>3.3 Use relevant information to construct models for civil and construction projects by using drawings and computer assisted technologies.</p> <p>3.4 Read the criteria for the project and identify appropriate information sources.</p> <p>3.5 Use systematic approaches and paper based and computerized techniques to collect civil engineering data.</p> <p>3.6 Collect and organize project related information in a retrievable manner according to approved techniques.</p>
	Course Outcome 4	Learning Objectives for Course Outcome 4
	<p>Upon successful completion, the student will be able to:</p> <p>4. Use industry-specific electronic and digital technologies to support civil engineering projects.</p>	<p>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)</p>

Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
	Assignments and Activities	20%
	Chapter Quizzes	50%
	Final Test	15%
	Mid-term Test	15%

Date: August 27, 2019

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