COURSE OUTLINE: CAD100 - INTRO COMP/AUTOCAD

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	CAD100: INTRODUCTION TO COMPUTERS AND AUTOCAD
Program Number: Name	4080: CIVIL ENG TECHNICIAN 4098: CONSTRUCTION TECH.
Department:	CIVIL/CONSTRUCTION
Academic Year:	2022-2023
Course Description:	This course is intended to introduce to the student to the use of AutoCAD software in the preparation, editing and plotting of engineering drawings. The student will also be able to setup CAD drawings using standards for layers, text, and line weight. The student will become familiar with basic drawing and editing procedures, as well as file management and organization.
Total Credits:	4
Hours/Week:	4
Total Hours:	56
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Substitutes:	CAD120, ELN210
This course is a pre-requisite for:	CAD222
Vocational Learning Outcomes (VLO's) addressed in this course: **Please refer to program web page for a complete listing of program outcomes where applicable.**	**4080 - CIVIL ENG TECHNICIAN** 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. VLO 8 participate in the design and modeling phase of civil engineering projects by applying engineering concepts, basic technical mathematics and principles of science to the review and production of project plans. **4098 - CONSTRUCTION TECH.** VLO 6 Communicate technical information to a variety of clients, supervisors and tradespersons to participate in the successful completion of construction projects. VLO 7 Identify and use industry-specific technologies to support construction projects. VLO 8 Solve on-site trade-related construction problems using mathematical equations and geometric concepts. VLO 10 Assist in the preparation of project estimates.

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 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 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 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:	No Textbook Required

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Upon successful completion, the student will be able to: 1. Collect, process and	1.1 Select and use appropriate technologies to produce documents for civil engineering projects 1.2 use relevant information to construct models for civil

	interpret technical data to produce written and graphical project-related documents.	engineering projects by using drawings and computer-assisted technologies 1.3 Collect and organize project related information in a retrievable manner according to approved techniques.
	Course Outcome 2	**Learning Objectives for Course Outcome 2**
	Upon successful completion, the student will be able to: 2.Use industry-specific electronic and digital technologies to support civil engineering projects.	2.1 Select and use industry-specific electronic and digital technologies to design projects, produce plans and to solve project-related problems (e.g., Computer-aided Design (CAD), etc.
	Course Outcome 3	**Learning Objectives for Course Outcome 3**
	Upon successful completion, the student will be able to: 3. Participate in the design and modeling phase of civil engineering projects by applying engineering concepts, basic technical mathematics and principles of science to the review and production of project plans.	3.1 Review the technical criteria used in the design, layout and construction of civil engineering projects.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignments and Quizzes	60%
Final Exam	20%
Midterm Exam	20%

Date: January 9, 2023

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