

COURSE OUTLINE: CAD225 - AUTOCAD SCHEMATICS

Prepared: Barry Sparrow

Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	CAD225: AUTOCAD/DRAWING AND SCHEMATICS			
Program Number: Name	4039: MECH. ENG. TN-MANUFA			
Department:	CIVIL/CONSTRUCTION			
Semesters/Terms:	20F			
Course Description:	Sketches, schematics, diagrams and CAD drawings are all used to convey information in the mechanical fields. CAD drawings are an essential part of graphic communication and can provide precision information not available in paper based drawings and is an integral part of interfacing with CNC processes and equipment. This course is intended to enhance the students skills in the areas of CAD and drawing assembly and interpretation, with an emphasis on using CAD to create drawings.			
Total Credits:	3			
Hours/Week:	4			
Total Hours:	60			
Prerequisites:	DRF105			
Corequisites:	There are no co-requisites for this course.			
Substitutes:	CAD120			
This course is a pre-requisite for:	CAD401			
Vocational Learning Outcomes (VLO's) addressed in this course:	 4039 - MECH. ENG. TN-MANUFA VLO 5 Use current and emerging technologies to support the implementation of mechanical engineering projects. 			
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 7 Interpret, prepare and modify mechanical engineering drawings and other related technical documents.			
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.			
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%			

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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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 percentage point will be deducted from your overall grade for each undocumented explanation. Valid documented explanations 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 after a missed class. A Doctor's note, etc., is to be attached as a PDF file to your e-mail.

Course Outcomes and **Learning Objectives:**

Course Outcome 1	Learning Objectives for Course Outcome 1	
Upon successful completion, the student will be able to: 1. Understand technical information requirements and work flow.	1.1 Recognize the need for and use of technical drawings.	
Course Outcome 2	Learning Objectives for Course Outcome 2	
Upon successful completion, the student will be able to: 2. Understanding the use of CAD in graphic communication and mechanical applications.	2.1 Identify value of CAD vs. paper drawings in terms of precision and information extraction. 2.2 Recognize the use of CAD as a precursor to CNC and other machining processes.	
Course Outcome 3	Learning Objectives for Course Outcome 3	
Upon successful completion, the student will be able to:	3.1 Recognize and configure AutoCAD setup tools, including units and drawing aids. 3.2 Create AutoCAD drawings using drawing entity and annotation tools.	

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	drawing based on a supplied graphic using basic AutoCAD.		drawings using the modify tools. to an appropriate scale using layouts in nage digital drawing information according to
Evaluation Process and Grading System:	Evaluation Type Final Test	Evaluation Weight	
	Laboratories/Assignments		
	Mid-term Test	25%	
Date:	September 2, 2020		
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.		

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