Prepared: Barry Sparrow Approved: Corey Meunier

Course Code: Title	CAD225: AUTOCAD/DRAWING AND SCHEMATICS
Program Number: Name	4039: MECH. ENG. TN-MANUFA
Department:	CIVIL/CONSTRUCTION
Semester/Term:	17F
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
Substitutes:	CAD120
This course is a pre-requisite for:	CAD401
Vocational Learning Outcomes (VLO's): **Please refer to program web page for a complete listing of program outcomes where applicable.**	#5. Use current and emerging technologies to support the implementation of mechanical engineering projects. #7. Interpret, prepare and modify mechanical engineering drawings and other related technical documents.
Essential Employability Skills (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
Other Course Evaluation & Assessment Requirements:	Grade Definition Grade Point Equivalent

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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W Student has withdrawn from the course without academic penalty.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Final Test	25%
Laboratories/Assignments	50%
Mid-term Test	25%

Course Outcomes and Learning Objectives:

Course Outcome 1.

Upon successful completion, the student will be able to:
1. Understand technical information requirements and work flow.

Learning Objectives 1.

Course Outcome 2.

Upon successful completion, the student will be able to:
2. Understanding the use of CAD in graphic communication and mechanical applications.

Learning Objectives 2.

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Course Outcome 3.

Upon successful completion, the student will be able to:
3. Create an AutoCAD drawing based on a supplied graphic.

Learning Objectives 3.

Course Outcome 4.

Upon successful completion, the student will be able to:
4. Recognize and apply AutoCAD setup tools.

Learning Objectives 4.

Course Outcome 5.

Upon successful completion, the student will be able to:
5. Apply AutoCAD dimensioning techniques.

Learning Objectives 5.

Course Outcome 6.

Upon successful completion, the student will be able to:
6. Edit AutoCAD drawings using the modify toolbar.

Learning Objectives 6.

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Course Outcome 7.

Upon successful completion, the student will be able to:
7. Create isometric drawings in AutoCAD.

Learning Objectives 7.

Course Outcome 8.

Upon successful completion, the student will be able to:
8. Plot drawings using AutoCAD.

Learning Objectives 8.

Date:	Friday, September 1, 2017
	Please refer to the course outline addendum on the Learning Management System for further information.