Syllabus

MET 205 Engineering Drawing III

General Information

Date
January 11th, 2019

Author
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Department
Science and Technology

Course Prefix
MET

Course Number
205

Course Title
Engineering Drawing III

Course Information

Credit Hours
3

Lecture Contact Hours
2

Lab Contact Hours
5

Other Contact Hours
0

Catalog Description
A continuation of Engineering Drawing III. Advanced topics include geometric positioning and toleranes as it relates to symbols, terms, datums, modifiers, geometric characteristics, true position and English/Metric units; and computer numerically controlled (CNC) manufacturing of student's CAD - documented parts executed via post processor software. The course will include an advanced design project.

Key Assessment
This course does not contain a Key Assessment for any programs

Prerequisites
None

Co-requisites
None

Grading Scheme
Letter

First Year Experience/Capstone Designation

This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category
None

FLCC Values

Institutional Learning Outcomes Addressed by the Course

Inquiry | Perseverance | Interconnectedness

Course Learning Outcomes

Course Learning Outcomes

1. Management of the design process
2. Interpret and apply Geometric Dimensioning and Tolerances (GD&T)
3. Develop working drawings and CNC information for complex parts and assemblies

Program Affiliation

This course is required as a core program course in the following program

AAS Mechanical Technology

Outline of Topics Covered

a) Autodesk Inventor Training

b) Threads & Fasteners

c) Dimensioning

d) Tolerances

e) Gears

f) Cams, Springs & Keys

g) Sheet Metal

h) Weldments

i) Rapid Prototyping

j) Team Design Project