



## Syllabus

### MET 106 Engineering Drawing II

#### General Information

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**Date**

January 11th, 2019

**Author**

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**Department**

Science and Technology

**Course Prefix**

MET

**Course Number**

106

**Course Title**

Engineering Drawing II

#### Course Information

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**Credit Hours**

3

**Lecture Contact Hours**

1

**Lab Contact Hours**

5

**Other Contact Hours**

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**Catalog Description**

Advanced techniques for creating, viewing, and plotting 2D and 3D CAD drawings will be presented. Lectures, demonstrations, and labs in a variety of applications will enhance the student's CAD ability and professional development. Topics include attributes; drawing views, assembly drawings, threads and fasteners, dimensioning, tolerances, bearings and shafts, and the design process. Students will use parametric solid modeling software.

**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

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

#### SUNY General Education

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This course is designated as satisfying a requirement in the following SUNY Gen Ed category

None

#### FLCC Values

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## Institutional Learning Outcomes Addressed by the Course

Inquiry

Perseverance

Interconnectedness

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# Course Learning Outcomes

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## Course Learning Outcomes

1. Selection and creation of the appropriate drawing views (orthographic, isometric, auxiliary, section, detail, broken, etc.)
2. Preparation of a set of working drawings including detail drawings, assembly drawings and bill of materials in accordance with ANSI dimensioning standard
3. Determine and apply different types of tolerances and calculation of hole and shaft sizes
4. Design and develop common cam designs, gear train designs and bearing applications

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## Program Affiliation

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

AAS Mechanical Technology

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## Outline of Topics Covered

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### Topics To Be Covered

1. Introduction
2. Solid & Curved Objects
3. Adding & Altering Objects
4. Moving & Duplicating
5. Modifying & Maneuvering
6. Hatching & Sketching
7. Text
8. Tables
9. Drawing Setup
10. Layers and Line Types
11. Plotting and Printing
12. Dimensioning
13. Calculation Commands
14. Groups & Blocks
15. Dynamic Blocks
16. Attributes
17. Isometric Drawing