Syllabus

ESC 105 Engineering Graphics

General Information

Date
March 7th, 2018

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Department
Science and Technology

Course Prefix
ESC

Course Number
105

Course Title
Engineering Graphics

Course Information

Credit Hours
3

Lecture Contact Hours
1

Lab Contact Hours
5

Catalog Description
This course includes technical sketching, visualization, design, and the use of computer aided design (CAD). Topics include geometric construction and modeling, lettering, freehand sketching, orthographic projection, isometric projection, oblique projection, sectional views, dimensioning, working drawings, and the use of CAD software. Emphasis is on developing both manual sketching and CAD skills to convey engineering designs in accordance with industry standards.

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. Demonstrate proper set up of multi-view orthographic drawings.
2. Demonstrate proper use of standard drawing tools and techniques.
3. Use CAD software to create solid models and engineering drawings.

Outline of Topics Covered

I. Design and Graphic Communication
II. Freehand Sketching
III. Scales
IV. Lettering
V. Geometric Construction
VI. Multiview Sketching and Projection
VII. Pictorial Sketching
VIII. Sectional Views

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