



Syllabus

MET 255 Mechanical Technology Capstone Project

General Information

Date

January 11th, 2019

Author

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Department

Science and Technology

Course Prefix

MET

Course Number

255

Course Title

Mechanical Technology Capstone Project

Course Information

Credit Hours

3

Lecture Contact Hours

1

Lab Contact Hours

4

Other Contact Hours

0

Catalog Description

This course is the culmination of the previous and concurrent course required for the Mechanical Technology Program. Students will be assigned a problem and asked to provide a solution. Most of the necessary information will be provided but some may require the students to do some research, such as a search on the internet. The project will incorporate drawing/design, analysis and manufacturing knowledge. The students may be asked to produce a scaled model prototype. The students will present their results in a short presentation to invited faculty, Advisory Board members and other invited guests.

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 is designated as satisfying the outcomes applicable for status as a Capstone Course

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

Vitality

Inquiry

Perseverance

Interconnectedness

Course Learning Outcomes

Course Learning Outcomes

1. Prepare drawings for use by CAM software.
2. Analysis forces and calculate stress.
3. Provide suggestions on best materials for the project and manufacturing processes.
4. Create presentation to showcase work.

Program Affiliation

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

AAS Mechanical Technology

Outline of Topics Covered

Capstone project is determined individually for each student