MACH A199: CURRENT TOPICS IN MACHINE TECHNOLOGY

Item	Value
Curriculum Committee Approval Date	12/06/2023
Top Code	095630 - Machining and Machine Tools
Units	1-5 Total Units
Hours	18-126 Total Hours (Lecture Hours 18-72; Lab Hours 0-54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S), • Pass/No Pass (B)

Course Description

Current issues in the field of Manufacturing Technology, rotating through a variety of topics, such as inspection, quality control, lean manufacturing, rapid prototype, materials, and other topics related to manufacturing. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Identify, discuss and develop skills related to a current topic in Machine Technology and apply those skills to a student project.

Course Objectives

- 1. Identify, discuss and analyze current issues in machine technology.
- 2. Develop skills related to current issues.
- 3. Place and evaluate action or response related to the current issues.
- 4. Describe needs for new and existing manufacturing technologies.

Lecture Content

1. Content related to the current issues in machine technology. 2. Analysis of implications related to changes in machine technology. 3. Responses to industry changes.

Lab Content

1. Content related to the current issues in machine technology. 2. Analysis of implications related to changes in machine technology. 3. Responses to industry change

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- Lab (04)
- DE Live Online Lab (04S)

Instructional Techniques

Lecture, demonstrations, discussions, students working cooperatively, instructor feedback

Reading Assignments

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Writing Assignments

In-class writing assignments as appropriate to topic. Students will spend 2 to 9 hours a week on assignment.

Out-of-class Assignments

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Demonstration of Critical Thinking

Lecture, demonstrations, discussions, students working cooperatively, instructor feedback

Required Writing, Problem Solving, Skills Demonstration

In-class writing assignments as appropriate to topic.

Eligible Disciplines

Machine tool technology (tool and die making): Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Other Resources

1. Selected handout materials for a specific topic will be provided and distributed by the instructor.