

COURSE SYLLABUS

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| LAST REVIEW | Fall 2022 |
| COURSE TITLE | Machinist I |
| COURSE NUMBER | AMFT 0108 |
| DIVISION | Career and Technical Education |
| DEPARTMENT | AMFT |
| CIP CODE | 15.0406 |
| CREDIT HOURS | 3 |
| CONTACT HOURS/WEEK | Class: 1 Lab: 4 |
| PREREQUISITES | None |
| COREQUISITES | None |
| COURSE PLACEMENT | None |

COURSE DESCRIPTION

This course will introduce the learner with the skills to properly identify, set-up, and operate metal turning and milling equipment safely. This course will emphasize hands on approach as well as classroom activities to familiarize the student with the process to complete job task analysis. This course will also cover common mathematical formulas that will be implemented in to the curriculum to achieve expected learner outcomes.

PROGRAM ALIGNMENT

This course is part of a program aligned through the Kansas Board of Regents and Technical Education Authority. For more information, please visit:

https://kansasregents.org/workforce_development/program-alignment

Program Learning Outcomes

1. PLO #1
2. PLO #2

TEXTBOOKS

<http://kckccbookstore.com/>

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels,

conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

- I. Hazards of association.
- II. Work Holding devices and tooling.
- III. Lathe operations.
- IV. Vertical milling machine operations.

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the student will:

- A. The student will be able to utilize the machinery's handbook
- B. The student will be able to perform selecting and diluting cutting fluids
- C. The student will be able to perform safety inspections
- D. The student will be able to analyze prints
- E. The student will be able to select cutting fluids.
- D. The student will be able to perform maintenance on equipment
- E. The student will be able to perform engine lathe operations
- F. The student will be able to perform vertical milling machine operations
- G. The student will be able to calculate mathematical formulas.

ASSESSMENT OF COURSE LEARNING OUTCOMES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

College Catalog

<https://www.kckcc.edu/academics/catalog/index.html>

College Policies and Statements

<https://www.kckcc.edu/about/policies-statements/index.html>

Accessibility and Accommodations

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>.

