

## Master Syllabus

### **MET 1131 - Personal Computer Applications for Engineering Technology**

**Division:** Science, Mathematics and Engineering

**Department:** Mechanical Engineering Technology

**Credit Hour Total:** 1.0

**Lecture Hrs:** 0.5 **Lab Hrs:** 1.5

**Prerequisite(s):** DEV 0015AND MAT 0100OR MAT 1110OR MAT 1130OR MAT 1445

**Date Revised:** October 2016

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#### **Course Description:**

Applied computer tools to solve engineering technology problems, emphasizing the integration of word processing, spreadsheets, presentation software and engineering research skills using the Internet. Applications of an integrated approach to research papers, engineering technology analysis, technical laboratory reports and technical presentations. One-half classroom, one and one-half lab hours per week.

#### **General Education Outcomes:**

- ▣ Critical Thinking/Problem Solving Competency
- ▣ Values/Citizenship/Community Competency
- ▣ Computer Literacy Competency
- ▣ Information Literacy Competency
- ▣ Oral Communication Competency
- ▣ Written Communication Competency

#### **Course Outcomes:**

##### **Internet usage**

Access the internet for research and problem solving.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or higher on all exams

##### **Advanced problems**

Utilize integrated software to prepare and communicate solutions to engineering technology problems.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or higher on all exams

##### **Spreadsheets**

Use spreadsheets and solve problems in a variety of engineering technology disciplines.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or higher on all exams

##### **Presentation**

Research, prepare and make a presentation on a technical topic.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

Receive 80% or more of available points on grading rubric

##### **Engineering documents**

Create engineering documents using word processing, presentation graphics and spreadsheets.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

70% or higher on all exams

#### **Outline:**

Introduction to Windows operating environment

Word processing

Techniques for solving engineering technology problems using algorithms and spreadsheets

Accessing the Internet for collection of engineering data

Integration of word processing, spreadsheets and graphics

Completion of technical projects using integrated software

