

# University of Toledo

## Mechanical Engineering Technology

### Master Syllabus

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**Course Title: Orientation to ET**

**Course Code & Number: ENGT 1000**

**Credit Hour Total: 1 Semester Hours**

**Lecture Contact Hours: 2**

**Lab Contact Hours: 0**

**Prerequisite: None**

**Text: Donaldson, The Engineering Student Survival Guide, McGraw-Hill, 2005**

**Software: Microsoft Office/Word**

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#### **A. Course Description**

This course is an overview of careers in engineering technology, information about each program in engineering technology, and skills required for success in technological fields, such as computer skills.

#### **B. Related Program Outcomes (e, g, h, i):**

- An ability to function effectively on teams, as evidenced by the execution of a group project, which culminates in an oral presentation to the class and the submission of a written report.
- An ability to communicate effectively, as evidenced by the submission of a series of informational homework assignments in the form of memos.
- A recognition of the need for, and an ability to engage in lifelong learning, as evidenced by an exploration of the criteria to become, and to continue to be, a registered professional engineer.
- An ability to understand professional, ethical and social responsibilities, as evidenced by the interaction of the engineer with the community in which he works and an understanding of the legal ramifications of the responsibility of the engineer.

#### **C. Course Objectives:**

*To facilitate the student's entrance into college*, the College of Engineering and the Department of Technology by providing formal instruction on registration and advising procedures, use of University facilities including computers, placement and co-op offices, and library systems. *To promote retention of students* by developing individual profiles of students' abilities and needs, particularly in the areas of attitude, motivation, time management, and study skills, by introducing students to other students to

promote study associations, to appropriate faculty members, and to the benefits of a degree in engineering technology. *To familiarize the students with the variety of programs available on campus. To introduce the student so some basic skills of technology* such as writing, algebra, logical thinking, computer usage, and freehand sketching.

#### **D. Course Outline – Major Content Areas**

- History of engineering
- UT academic structure
- Definition of engineering and engineering technology
- Tutorial services
- Library services
- Academic advising
- Registration procedures
- Working in teams
- Oral presentations
- Written communications
- Professional registration for engineers
- Co-operative employment program
- Resume construction
- Faculty conference skills