

Master Syllabus

MET 2711 - Ethics for Engineering Technology Professionals

Division: Science, Mathematics and Engineering

Department: Mechanical Engineering Technology

Credit Hour Total: 1.0

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

Prerequisite(s): COM 2206OR COM 2211OR COM 2225AND ENG 1101

Date Revised: January 2014

Course Description:

Instruction to the core skills of an engineering professional. Technical skills, soft skills and team management techniques. Concepts of lifelong learning, continued personal improvement, engineering ethics, working in a diverse industry and future trends in engineering technology. One-half classroom, one and one-half lab hours per week.

General Education Outcomes:

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

Course Outcomes:

Soft skill techniques

Demonstrate ability to write, present and discuss in a team setting various ethical problems and solutions.

Assessment Method: Behavioral observations

Performance Criteria:

70% or higher as assessed by the instructor via rubric

Assessment Method: Performance appraisals

Performance Criteria:

70% or higher as assessed by the instructor via presentation rubric

Assessment Method: Portfolios

Performance Criteria:

70% or higher as assessed by the instructor via written rubric

Multicultural issues

Investigate and apply the National Society of Professional Engineers (NSPE) code of ethics when dealing with foreign nationals. Identify potential issues when introducing one's own value system to a different culture.

Assessment Method: Performance appraisals

Performance Criteria:

70% or higher as assessed by the instructor via presentation rubric

Assessment Method: Portfolios

Performance Criteria:

70% or higher as assessed by the instructor via written rubric

Lifelong learning

Describe historic scenarios where continuing education is necessary to ensure proper decision making congruent with ethical standards within the discipline.

Assessment Method: Behavioral observations

Performance Criteria:

Instructor assessment of student philosophies of lifelong learning with at least 4 of 5 points on a rubric

Ethical and societal responsibilities

Apply the ethical frameworks and the National Society of Professional Engineers (NSPE) code of ethics to various situations and decisions. Identify the ethical concerns related to that decision.

Assessment Method: Performance appraisals

Performance Criteria:

70% or higher as assessed by the instructor via presentation rubric

Assessment Method: Portfolios

Performance Criteria:

70% or higher as assessed by the instructor via written rubric

Outline:

Introduction to ethical frameworks

Codes of ethics

Analyzing ethics case studies

Ethics and organizational culture

Ethics of purchasing and procurement

Ethics beyond our borders