

**ME 290**  
**GLOBAL ENGINEERING PROFESSIONAL SEMINAR**

**Course Outcomes** [Related ME Program Outcomes in brackets]

1. Provide a solid foundation in global engineering skills. [3, 4, 7]
2. Introduce the global engineering community and encourage active involvement with professional associations such as ASME and SAE to develop teamwork and leadership skills. [3, 4, 5, 7]
3. Explore the ME Curriculum and identify resources available for planning academic a program including global literacies (language and area studies) and for obtaining diverse industrial experience appropriate for developing global competencies. [3, 4, 7]
4. Support the development of a strong ethical framework for global professional workplace as a responsible member of the global engineering community. [4, 7]

**Global Communication Skills**

1. Professional presentation of engineering interests and credentials.
2. Competency with digital media for diverse and distant audiences.
3. Knowledge of cultural differences.
4. Strategies for collaborating across cultural boundaries.

**Global Professional Engineering Opportunities**

1. Industry speakers representing a range of ME global career paths.
2. Curricular resources for language area studies; options for diploma endorsement, "Global Engineering Studies Minor."
3. Professional association representatives (e.g., ASME, SAE).

**Global Professional and Ethical Issues**

1. Code of Ethics of Engineers.
2. Ethical reasoning frameworks.
3. Ethical practices: case studies.
4. Guidelines for Professional Conduct.
5. Ethical approaches to cultural differences.

**Capable Global Professionals**

Skilled global communicators committed to professional and ethical leadership in the global engineering community. [3, 4, 5, 7]

**COURSE NUMBER:** ME 290

**COURSE TITLE:** Global Engineering Professional Seminar

**REQUIRED COURSE OR ELECTIVE COURSE:** Required

**TERMS OFFERED:** Fall and Spring

**TEXTBOOK/REQUIRED MATERIAL:** Class Notes

**PRE-REQUISITES:**  
ME 3 standing

**COORDINATING FACULTY:** M.P. Linnes

**COURSE DESCRIPTION:** Forum on contemporary issues in the global profession of mechanical engineering. Professionalism and ethics. Interactions with engineering faculty and professionals outside the University. Professional Portfolio of communication assignments including understanding of cultural differences and collaborating across cultural boundaries. Individual Plan of Study. Academic career options including Global Engineering Studies Minor.

**COURSE OUTCOMES** [Related ME Program Outcomes in brackets]:

1. Provide a solid foundation in global engineering skills. [3, 4, 7]
2. Introduce the in global engineering community and encourage active involvement with professional associations such as ASME and SAE to develop teamwork and leadership skills. [3, 4, 5, 7]
3. Explore the ME Curriculum and identify resources available for planning academic a program including global literacies (language and area studies) and for obtaining diverse industrial experience appropriate for developing global competencies. [3, 4, 7]
4. Support the development of a strong ethical framework for global professional workplace, including an appreciation for cultural differences, as a responsible member of the global engineering community. [4, 7]

**ASSESSMENTS TOOLS:**

1. Professional correspondence (professional transmittal correspondence with enclosures).
2. Persuasive resume (1-page).
3. Short digital video “distance interview”.
4. Formal memo (ethics analysis and response), 1-page with attachment).
5. Visual presentation of engineering project (PowerPoint format for internet use).
6. Professional website (Internet site with navigation, site cover, resume, digital video and technical exhibit).
7. Cultural values mapping assignment for self and selected peer.
8. Criterion-based final assessment of Professional portfolio instructor with informative, structured peer feedback on individual assignments.

**NATURE OF DESIGN CONTENT:** None.

**RELATED ME PROGRAM OUTCOMES:**

1. Engineering fundamentals
2. Engineering design
3. Communication skills
4. Ethical/Prof. responsibilities
5. Teamwork skills
6. Experimental skills
7. Knowledge acquisition

**PROFESSIONAL COMPONENT:**

1. Engineering Topics: Professionalism/Ethics – 1 credit (100%)

**COMPUTER USAGE:** MSWord or any desktop publishing software for document design. Design a Linked-in profile online.

**COURSE STRUCTURE/SCHEDULE:**

Lecture - 2 days per week at 50 minutes (8-week course)

**PREPARED BY:** M.P. Linnes

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