

COURSE SYLLABUS (2 Page)

Course Number: ENGR 3295-C01
Course Name: Multidisciplinary Professional Development
Credits and Contact Hours: 1
Instructor: Linda Thurman (College) and John Daniels (CEE)
Textbook: Textbook not Required

Other Supplemental Materials: Handouts

Catalog Description: A series of multidisciplinary and disciplinary seminars and activities designed to introduce students to basic concepts of professionalism in engineering. Topics include: global, societal, and contemporary issues of current interest such as leadership, entrepreneurship, ethics, cultural diversity, and professional licensure.
Most Recently Offered (Day): Spring 2016, Fall 2015, Spring 2015
Most Recently Offered (Evening): Course has not been offered in 3 years

Pre-Requisites/Co-Requisites: Senior standing per departmental requirements

Course is: Required (R)

Goals: By the end of this course, students will be able to: (1) identify ethical dilemmas associated with the engineering profession and articulate appropriate solutions; (2) identify critical steps and resources necessary to transform engineering skills into a business; (3) evaluate opportunities for professional development and life-long learning including graduate school and licensure that are consistent with career goals; (4) identify and articulate global, societal and contemporary issues facing the engineering profession; and (5) conduct a thorough and effective search for an engineering position.

Student Outcomes Addressed:

In this course, students will develop the following Student Outcomes:

- F. an understanding of professional and ethical responsibility
- H. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- I. a recognition of the need for, and an ability to engage in life-long learning
- J. a knowledge of contemporary issues
- L. an ability to explain key concepts and problem-solving concepts used in management
- N. an ability to explain the role of the leader and leadership principles

Course Topics:

Leadership; project management; entrepreneurship; ethics; career planning/ career management; global, societal and contemporary issues; mock interview day (conducted with employer representatives); professional licensure; FE Exam review; and graduate and continuing education.

Other Requirements:

In addition to the common class time (all sections meet from 11:00 am – 12:15 pm on Fridays), students in this section are required to participate in a Fundamentals of Engineering (FE) exam review session on Friday afternoons from 2:00 PM – 4:30 PM and take a mock FE exam. Review session topics addressed include fluid mechanics, hydraulics and hydrologic systems, materials, surveying, engineering economics, soil mechanics and foundations, structural analysis, structural design, construction, environmental engineering and transportation.

All students are required to complete a pre-course survey, a post-course survey, a professional resume, a paper on life-long learning and a quiz on ethics. Students are required to participate in a mock interview with an actual employer.