

Course Catalog - Fall 2005

Engineering

100 **Engineering Lecture** Credit: 0 hours.

(ENG 100) Engineering lecture for freshmen; selected topics each week. Required of freshmen in the College of Engineering. Approved for S/U grading only.

199 **Undergraduate Open Seminar** Credit: 0 to 5 hours.

(ENG 199) May be repeated.

201 **Cooperative Engr Seminar** Credit: 0 hours.

(ENG 101) Discussion seminar for on-campus cooperative education students. Topics include industrial work reports, online company card reports, on-line ABET reports, the Co-op/Internship Job Fair, the Co-op Information Night, the Co-op Society, and membership in the Co-op Honor Society. Approved for S/U grading only.

Prerequisite: Enrollment as a cooperative education student

202 **Cooperative Engr Practice** Credit: 0 hours.

(ENG 102) Off-campus practice of engineering in government or industry. Approved for S/U grading only.

Prerequisite: Enrollment as a cooperative education student.

210 **Engineering Apprenticeship** Credit: 0 hours.

(ENG 110) Part-time practice of engineering science in an on-campus research laboratory environment; summary report required. May be repeated. Approved for both letter and S/U grading. Prerequisite: Completion of freshman year and consent of the Director of College of Engineering Work Experience Programs.

299 **Engineering Study Abroad** Credit: 0 to 15 hours.

(ENG 299) Provides campus credit for foreign study and/or provides a mechanism for engineering students to maintain continuous enrollment on this campus. If objective is study abroad for credit, a detailed proposal must be submitted by the student for approval by a committee of the department in which the student is studying and the college office prior to such study abroad. Final determination of credit and its application toward the student's degree is made after a review of the student's work abroad by the above committee and the college office.

(Summer Session, 0 to 7.5 hours). Prerequisite: Completion of sophomore year in engineering; approval of student's proposed study program by his department and the college office.

300 **Engineering Transfer Lecture** Credit: 0 hours.

(ENG 200) Required of off-campus transfer students in the College of Engineering. Meets for first three weeks of each term; selected topics Approved for S/U grading only.

310 **Engineering Internship** Credit: 0 hours.

(ENG 210) Full-time practice of engineering in an off-campus industrial or research laboratory environment. Work report, on-line Company Card Report, and on-line ABET report required. Approved for S/U grading only.

Prerequisite: Completion of freshman year or consent of Director of the College of Engineering Work Experience Programs

395 **Executives in the Tech World** Credit: 1 hours.

(ENG 298) Offers a series of seminars by executives from industrial and technical organizations; provides students an opportunity to better understand the role of the technological executive as a decision-maker in the contemporary world; and discusses current trends, practices, economic conditions, productivity, government regulation, and foreign trade from the viewpoint of a wide range of industries such as transportation, steel, energy, and electronics.

Prerequisite: Junior or senior standing in engineering, or consent of instructor.

491 **Interdisciplinary Design Proj** Credit: 1 to 4 hours.

The course objective is to provide a disciplined, multi-department project design experience. Teams work on projects with team objectives that have an overall (or major phase) completion date at the end of the semester. Students participate in engineering activities with individual as well as team responsibilities. The projects involve

project specification through a proposal, analyses of cost and other tradeoffs among alternative designs, design review, fabrication and assembly, functional and environmental testing, and demonstrations (as applicable). Presentations are made and reports are given at the end of each semester. Lecture-lab format. Prerequisite: Senior standing; consent of section instructor. 1 to 4 undergraduate hours. May be repeated once.

510 ***Engineering Practice*** Credit: 0 hours.

(ENG 410) Practice type course. May be repeated. Approved for S/U grading only. Prerequisite: Graduate student standing or consent of Director of College of Engineering Work Experience Programs.