

Engineering (ENGR)

Courses

ENGR 400. Engineering Law. 3 or 4 hours.

Overview of the legal system. Legal principles affecting the engineering profession. Professional ethics in engineering. Intellectual property law. Basic contract and tort principles. Environmental law. Course Information: Same as MENG 400. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. This is an online web-based course. Prerequisite(s): Senior standing or above.

ENGR 401. Engineering Management. 3 or 4 hours.

Theory, strategy, and tactics of the use of project management including project planning, matrix management concept, and team meetings. Course Information: Same as MENG 401. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. This is an online web-based course. Prerequisite(s): Senior standing or above.

ENGR 402. Intellectual Property Law. 3 or 4 hours.

Patent, copyright, trade secret, mask work, and cyber-squatting legal and procedural principles; protection for novel software, biotech inventions, and business methods; and trademark protection for domain names. Course Information: Same as MENG 402. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. This is an online web-based course. Prerequisite(s): Senior standing or above.

ENGR 403. Reliability Engineering. 3 or 4 hours.

Probability overview; statistics overview; system reliability modeling and prediction-static methods; system reliability modeling and prediction-dynamic methods; maintainability and availability; reliability optimization; and risk analysis. Course Information: Same as MENG 403. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. This is an online web-based course. Prerequisite(s): Senior standing or above.

ENGR 404. Entrepreneurship. 3 hours.

Identify new business opportunities in technology, market value assessment, competition, business plan, funding acquisition, intellectual property protection and case studies. Course Information: Prerequisite(s): Open only to seniors; and consent of the instructor.

ENGR 420. Engineering for Success. 1 hour.

Interactive seminars will be given by persons with engineering degrees having shown high achievement in either engineering or non-engineering endeavors. Course Information: Satisfactory/Unsatisfactory grading only. Prerequisite(s): Junior standing or above.

ENGR 436. Wireless Data. 3 or 4 hours.

Data communications, existing Wireless Data Networks, planning, topology, performance, and operation. Course Information: Same as MENG 436. 3 undergraduate hours. 4 graduate hours. Previously listed as ENGR 410. Extensive computer use required. This is an online web-based course. Prerequisite(s): Senior standing or above and a course in digital communications and an introductory course in wireless communications.

ENGR 493. Engineering Student Leadership Seminar. 1 hour.

Peer student leadership topics in Engineering, team building events, self reflection, feedback and program assessment. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. No graduation credit. Prerequisite(s): Open only to Seniors.

ENGR 494. Special Topics in Engineering. 1-4 hours.

Course on multidisciplinary engineering topics that vary from term to term depending on current student and instructor interests. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Junior standing or above; and consent of the instructor.