ENGINEERING  EGR

College of Engineering

101 Preview of Science

110 ROSES Engineering Seminar
Fall. 1(2-0) R: Open to freshmen in Residential Option for Science and Engineering. Seminar for ROSES students. Transition issues, success issues, and the exploration of engineering as a major and profession.

150 Engineers and the Engineering Profession
Spring. 2(2-0) P:M: (MTH 116 or concurrently) or (MTH 132 or concurrently) or (LBS 118 or concurrently) R: Open only to freshmen or sophomores. Overview of the engineering profession. Historical background. Engineering specialties. Engineers at work. Professionalism and ethics. Communication skills. Future trends and challenges.

160 Diversity and Engineering
Fall, Spring. 2(2-0) P:M: (MTH 116 or concurrently) or (MTH 132 or concurrently) R: Open only to freshmen or sophomores in the College of Engineering. Diversity and engineering. Transitional problems. Career options. Communication skills.

192 Environmental Issues Seminar
Fall, Spring. 1 credit. A student may earn a maximum of 4 credits in all enrollments for this course. Interdepartmental with Agriculture and Natural Resources and Communication Arts and Sciences and Natural Science and Social Science. Administered by Natural Science. R: Open only to students in the College of Agriculture and Natural Resources or College of Engineering or College of Natural Science or College of Communication Arts and Sciences or College of Social Science. Approval of college. Environmental issues and problems explored from a variety of perspectives, including legal, scientific, historical, political, socio-economic, and technical points of view.

290 Independent Study
Fall, Spring. Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to students in the College of Engineering. Approval of college. Independent undergraduate research in engineering.

291 Selected Topics
Fall, Spring. Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to freshmen or sophomores. Experimental course development or special topics appropriate for freshmen and sophomores.

292 Applications in Environmental Studies
Fall. 2(1-2) Interdepartmental with Agriculture and Natural Resources and Communication Arts and Sciences and Natural Science and Social Science. Administered by Natural Science. P:M: NSC 192 R: Open only to students in the Specialization in Environmental Studies. Community engagement project. Projects vary depending on student's major and area of environmental interest.

300 Technology, Society and Public Policy
Fall. 2(2-0) P:M: Completion of Tier I writing requirement. RB: Two courses in mathematics or engineering or science. SA: EGR 200, MSM 300 Defining, describing and analyzing technology. Impact of technology on society. Public policy and technology. Short history of technology. Development and use of assessment tools to measure impact and consequences of technology.

393 Engineering Cooperative Education
Fall, Spring, Summer. 1(1-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the College of Engineering. Pre-professional educational employment experiences in industry and government related to student's major. Educational employment assignment approved by College of Engineering.

400 Special Problems in International Engineering
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to juniors or seniors or graduate students in the College of Engineering. Supervised study of selected topics in engineering using laboratories, equipment, and engineering design techniques. Given at various international universities and institutes.

410 System Methodology
Spring. 2(1-3) P:M: (EGR 300 and STT 351) and (ECE 345 or concurrently) and (ME 222 or concurrently) R: Open only to students in the Applied Engineering Sciences major. SA: SYS 410, MSM 400 System analysis and design. Needs analysis, system identification, graphical models. Team project required.

475 Special Topics in International Engineering
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to juniors or seniors or graduate students in the College of Engineering. Topics selected to supplement regular courses. Given at various international universities and institutes.

490 Independent Study (W)
Fall, Spring, Summer. 1 to 4 credits. R: Open only to juniors and seniors in the College of Engineering. Approval of college. Individualized reading, research, and/or project.