ENGR 1000 Lower Level Special Topics
Description: Special Topics sessions taught by CEAT faculty members targeted to underclassmen. Offered for variable credit, 1-3 credit hours, maximum of 6 credit hours.
Credit hours: 1-3
Contact hours: Lecture: 1-3 Contact: 1-3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 1111 Introduction to Engineering
Description: An introduction to the study and practice of engineering. Skills for students in CEAT; expected engineering student behavior; tools needed by CEAT students; and the role of engineers in society. An introduction to engineering ethics; safety issues; and the relationship of engineering to social, global and contemporary issues. Student enrichment opportunities in the CEAT. May not be used for degree credit with ENGR 1113.
Credit hours: 1
Contact hours: Contact: 1 Other: 1
Levels: Undergraduate
Schedule types: Discussion
Department/School: Dean of Engineering

ENGR 1113 Introduction to Engineering Mathematics
Prerequisites: High school algebra or MATH 0123 or equivalent.
Description: This course focuses on applications of engineering mathematics to analysis and design problems across disciplines of engineering. Application of algebra, trigonometry, linear systems of equations, and basic calculus are illustrated through hands-on laboratory experiments and design projects. May not be used for degree credit with ENGR 1111.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Dean of Engineering

ENGR 1322 Engineering Design with CAD
Description: Introduction to engineering design using modern design methodologies and computer-aided tools. Design, construction and testing through participation in a multidisciplinary team-based design project contest.
Credit hours: 2
Contact hours: Lecture: 1 Lab: 2 Contact: 3
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Dean of Engineering

ENGR 1322 Engineering Design with CAD for MAE
Description: Introduction to engineering design using modern design methodologies and computer-aided tools appropriate for mechanical and aerospace engineering. Design, construction and testing through participation in a multidisciplinary team based design project contest.
Credit hours: 2
Contact hours: Lecture: 1 Lab: 2 Contact: 3
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Dean of Engineering

ENGR 1332 Engineering Design with CAD for MAE
Description: Introduction to engineering design with CAD for MAE and aerospace engineering. Design, construction and testing through participation in a multidisciplinary team based design project contest.
Credit hours: 2
Contact hours: Lecture: 1 Lab: 2 Contact: 3
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Dean of Engineering

ENGR 1342 Engineering Design with CAD for ECEN
Description: Introduction to engineering design using modern design methodologies and computer-aided tools appropriate for electrical and computer engineering. Design, construction and testing through participation in a multidisciplinary team-based design project contest.
Credit hours: 2
Contact hours: Lecture: 3 Lab: 2 Contact: 5
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Dean of Engineering

ENGR 1352 Engineering Design with CAD for CHE
Description: Introduction to engineering design using modern design methodologies and computer-aided tools appropriate for chemical engineering. Design, construction and testing through participation in a multidisciplinary team-based design project contest.
Credit hours: 2
Contact hours: Lecture: 1 Lab: 2 Contact: 3
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Dean of Engineering

ENGR 1412 Introductory Engineering Computer Programming
Description: Programming to solve problems typical of practice in engineering. Techniques and methods.
Credit hours: 2
Contact hours: Lecture: 1 Lab: 2 Contact: 3
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Dean of Engineering

ENGR 2030 Co-op Industrial Practice I
Prerequisites: Sophomore standing and permission of Co-op coordinator.
Description: Pre-engineering industrial practice. Written reports as specified by adviser. Application of credit to meet degree requirements varies with level and department. Offered for variable credit, 1-3 credit hours, maximum of 6 credit hours.
Credit hours: 1-3
Contact hours: Contact: 1-3 Other: 1-3
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering

ENGR 2100 Orientation Projects
Prerequisites: Pre-engineering standing.
Description: Enrollment in independent study or small groups. Projects to assist students with special needs to adjust to engineering curriculum. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.
Credit hours: 1-3
Contact hours: Contact: 1-3 Other: 1-3
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering

ENGR 2400 Engineering Lab Topics
Prerequisites: ENGR 1111 or BAE 1112 or ARCH 1112 or CMT 1213 and enrolled as a CEAT student or permission of the instructor.
Description: Engineering lab topics developed in relationship to ENSC or ENGR courses to provide hands-on interdisciplinary learning.
Credit hours: 1-3
Contact hours: Lab: 2-6 Contact: 2-6
Levels: Undergraduate
Schedule types: Lab
Department/School: Dean of Engineering
ENGR 3030 Co-op Industrial Practice II
Prerequisites: Junior standing and permission of Co-op coordinator.
Description: Pre-engineering industrial practice. Written reports as specified by adviser. Application of credit to meet degree requirements varies with level and department. Offered for variable credit, 1-3 credit hours, maximum of 6 credit hours.
Credit hours: 1-3
Contact hours: Contact: 1-3 Other: 1-3
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering

ENGR 3061 Domestic Scholars Experience
Prerequisites: Consent of the coordinator of CEAT Student Services.
Description: Participation in the domestic scholars experience.
Credit hours: 1
Contact hours: Lecture: 1 Contact: 1
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 3080 International Experience
Prerequisites: Consent of the associate dean of the college.
Description: Participation in a formal or informal educational experience outside of the USA. Offered for variable credit, 1-18 credit hours, maximum of 36 credit hours.
Credit hours: 1-18
Contact hours: Contact: 1-18 Other: 1-18
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering

ENGR 3090 Study Abroad (I)
Prerequisites: Consent of the Study Abroad office and associate dean of the college.
Description: Participation in an OSU reciprocal exchange program. Offered for variable credit, 1-18 credit hours, maximum of 36 credit hours.
Credit hours: 1-18
Contact hours: Contact: 1-18 Other: 1-18
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering

ENGR 4010 Engineering Problems and Design
Prerequisites: Permission of the instructor.
Description: Special projects and independent study. Offered for variable credit, 1-6 credit hours, maximum of 10 credit hours.
Credit hours: 1-6
Contact hours: Contact: 1-6 Other: 1-6
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering

ENGR 4030 Co-op Industrial Practice III
Prerequisites: Senior standing and permission of Co-op coordinator.
Description: Pre-engineering industrial practice. Written reports as specified by adviser. Application of credit to meet degree requirements varies with level and department. Offered for variable credit, 1-3 credit hours, maximum of 6 credit hours.
Credit hours: 1-3
Contact hours: Contact: 1-3 Other: 1-3
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering

ENGR 4043 International Engineering Service Learning I (I)
Prerequisites: Approval of instructor.
Description: International engineering service learning experience. Project design, construction, implementation and training to provide permanent answer to clients’ needs. Emphasis on the development of culturally acceptable engineering designs. Includes classroom lectures, hands-on design, writing assignments and travel to foreign country. For both engineering and non-engineering majors.
Credit hours: 3
Contact hours: Lecture: 1 Contact: 3 Other: 2
Levels: Undergraduate
Schedule types: Discussion, Combined lecture & discussion, Lecture
Department/School: Dean of Engineering

ENGR 4053 International Engineering Service Learning II (I)
Prerequisites: ENGR 4043 and approval of instructor.
Description: A continuation of ENGR 4043. International engineering service learning experience. Project design, construction, implementation and training to provide permanent answer to clients’ needs. Emphasis on the development of culturally acceptable engineering designs. Includes classroom lectures, hands-on design, writing assignments and travel to foreign country. For both engineering and non-engineering majors.
Credit hours: 3
Contact hours: Lecture: 1 Contact: 3 Other: 2
Levels: Undergraduate
Schedule types: Discussion, Combined lecture & discussion, Lecture
Department/School: Dean of Engineering

ENGR 4060 Topics in Technology and Society
Description: Problems of society relating to technology and added problems stemming from their solution. Minimal reliance on mathematics; for engineering and non-engineering students. Offered for variable credit, 1-3 credit hours, maximum of 9 credit hours.
Credit hours: 1-3
Contact hours: Contact: 1-3 Other: 1-3
Levels: Graduate, Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering

ENGR 4061 CEAT Scholars Study Abroad (I)
Prerequisites: Permission of instructor.
Description: Comparison of technologies, history, culture and economic systems between the U.S. and another country or countries. Includes both classroom and travel for on-site study.
Credit hours: 1
Contact hours: Lecture: 1 Contact: 1
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 4063 International Engineering Service Learning III (I)
Prerequisites: Permission of instructor.
Description: Comparison of technologies, history, culture and economic systems between the U.S. and another country or countries. Includes both classroom and travel for on-site study.
Credit hours: 1
Contact hours: Lecture: 1 Contact: 1
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 4080 International Experience
Prerequisites: Consent of the associate dean of the college.
Description: Participation in a formal or informal educational experience outside of the USA. Offered for variable credit, 1-6 credit hours, maximum of 10 credit hours.
Credit hours: 1-6
Contact hours: Contact: 1-6 Other: 1-6
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Dean of Engineering
ENGR 4073 Technology and Culture of Italy (I)
Prerequisites: Approval of instructor.
Description: Examination of the technology, history and culture of Italy, with an emphasis on the development of cultural competency. Analysis of similarities and differences in professional practices. Includes classroom lectures, writing assignments and travel to Italy. Minimal reliance on mathematics. For both engineering and non-engineering majors.
Credit hours: 3
Contact hours: Lecture: 1 Contact: 5 Other: 4
Levels: Undergraduate
Schedule types: Discussion, Combined lecture & discussion, Lecture
Department/School: Dean of Engineering
General Education and other Course Attributes: International Dimension

ENGR 4083 Technology and Culture of Brazil (I)
Prerequisites: Approval of instructor.
Description: Examination of the technology, history and culture of Brazil, with an emphasis on the development of cultural competency. Analysis of similarities and differences in professional practices. Includes classroom lectures, writing assignments and travel to Brazil. Minimal reliance on mathematics. For both engineering and non-engineering majors.
Credit hours: 3
Contact hours: Lecture: 1 Contact: 5 Other: 4
Levels: Undergraduate
Schedule types: Discussion, Combined lecture & discussion, Lecture
Department/School: Dean of Engineering
General Education and other Course Attributes: International Dimension

ENGR 4093 Technology and Culture of France (I)
Prerequisites: Approval of instructor.
Description: Examination of the technology, history and culture of France, with an emphasis on the development of cultural competency. Analysis of similarities and differences in professional practices. Includes classroom lectures, writing assignments and travel to France. Minimal reliance on mathematics. For both engineering and non-engineering majors.
Credit hours: 3
Contact hours: Lecture: 1 Contact: 5 Other: 4
Levels: Undergraduate
Schedule types: Discussion, Combined lecture & discussion, Lecture
Department/School: Dean of Engineering
General Education and other Course Attributes: International Dimension

ENGR 4103 Impact of Law on Engineering Practice
Prerequisites: Junior standing or consent of instructor.
Description: Principles and impact of U.S. and international laws and regulations on technical professionals, including the impact of environmental regulations, intellectual property laws, tort claims, and product liability on the design, research and oversight of technologies.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate, Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 4113 Intellectual Property Law for Technical Professionals (S)
Prerequisites: Junior standing or consent of instructor.
Description: Law and regulations of patents and other intellectual property protection methods. Impact of statutory and common law on the practice of technical professionals and how they can exploit intellectual property in their daily work.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 4123 Tort and Products Liability Law for Technical Professionals (S)
Prerequisites: Junior standing or consent of instructor.
Description: Legal liability of the work product and duties of technical professionals to the public. Relevant statutory, regulatory and common law relating to torts, specifically products liability.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 4133 Environmental Regulation for Technical Professionals (S)
Prerequisites: Approval of instructor.
Description: Environmental laws and regulations are omnipresent in the practice of engineering, science and architecture. Survey of the environmental laws and regulations affecting the practice of these professions.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 4201 Principles of Nuclear Engineering
Description: The nuclear enterprise, radiation, biological effects of ionizing radiation, nuclear reactor power plants, radioactive waste disposal, the fission process, food irradiation activities, applications of nuclear power in space, approaches to radiation detection, thermonuclear fusion, and nuclear weapons and proliferation.
Credit hours: 1
Contact hours: Lecture: 1 Contact: 1
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 4203 Nuclear Technologies in Society: Fulfilling Madame Curie's Dream
Description: Introduction to applications of nuclear science and technology and the radiation principles governing these applications. Problem-based learning environment. Class assignments are web-based and include reference materials and modules to be completed by students.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Contact hours</th>
<th>Credit hours</th>
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<tbody>
<tr>
<td>ENGR 4211</td>
<td>Introduction to Nuclear and Radiation</td>
<td>Aspects and applications of nuclear and radiation engineering/physics. History of nuclear development, basic concepts of radiation and radioactivity, radioactive waste management, global warming and the impact of nuclear power plants, industrial applications, health physics, nuclear medicine, job opportunities at power plants, graduate school and national labs.</td>
<td>ENGR 4201, ENGR 4211 or ENGR 4203 and MATH 2163, PHYS 2114.</td>
<td>Lecture: 1 Contact: 1</td>
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<td></td>
<td>Engineering Concepts</td>
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<tr>
<td>ENGR 4213</td>
<td>Elements of Nuclear Engineering</td>
<td>Nuclear engineering concepts and applications, including nuclear reactions, radioactivity, radiation interaction with matter, reactor physics, risk and dose assessment, applications in medicine, industry, agriculture and research.</td>
<td>ENGR 4201, ENGR 4211 or ENGR 4203 and MATH 2163, PHYS 2114.</td>
<td>Lecture: 3 Contact: 3</td>
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<td>ENGR 4223</td>
<td>Nuclear Reactor Engineering</td>
<td>Physics governing nuclear reactors and the design principles for commercial nuclear power plants. Reactor designs currently operating in the power industry. Generation III and Generation IV reactor designs are also discussed.</td>
<td>ENGR 4213 and MATH 2233.</td>
<td>Lecture: 3 Contact: 3</td>
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<tr>
<td>ENGR 4233</td>
<td>Energy Systems and Resources</td>
<td>Energy systems, renewable and non-renewable energy sources, and advances in energy applications.</td>
<td>ENGR 4213.</td>
<td>Lecture: 3 Contact: 3</td>
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<td>ENGR 4243</td>
<td>Radiation Protection and Shielding</td>
<td>Radiation protection, doses, associated risks, and exposure limits; properties of natural and other radiation sources, and evaluation of internal and external doses; and techniques for shield design including ray, point kernal, and transport theories for both neutrons and gamma rays.</td>
<td>ENGR 4213 and MATH 2233.</td>
<td>Lecture: 3 Contact: 3</td>
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<td>ENGR 4253</td>
<td>Nuclear Reactor Analysis</td>
<td>Fundamental physical principles, concepts and modeling techniques for analysis and design of nuclear reactors. Prepares students to analyze nuclear reactors including aspects of performance, dynamics and safety and to either develop new designs or to assess existing or proposed designs based upon fundamental understanding of reactor physics.</td>
<td>ENGR 4213 and MATH 2233.</td>
<td>Lecture: 3 Contact: 3</td>
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<tr>
<td>ENGR 4263</td>
<td>Nuclear Reactor Theory</td>
<td>Introduction to neutron diffusion theory, neutron moderation, neutron thermalization, and criticality conditions of nuclear reactors. Distance education only.</td>
<td>ENGR 4243.</td>
<td>Lecture: 3 Contact: 3</td>
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<td>ENGR 4273</td>
<td>Probabilistic Risk Assessment</td>
<td>This course is a detailed introduction to neutron diffusion theory, neutron moderation, neutron thermalization, and criticality conditions of nuclear reactors.</td>
<td>ENGR 4213.</td>
<td>Lecture: 3 Contact: 3</td>
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<td>ENGR 4283</td>
<td>Science and Technology of Terrorism and</td>
<td>A General overview of energy systems, renewable and non-renewable energy sources, and advances in energy applications.</td>
<td>ENGR 4213.</td>
<td>Lecture: 3 Contact: 3</td>
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<td>Counterterrorism</td>
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<td>ENGR 4293</td>
<td>Nonproliferation: Issues for Weapons of</td>
<td>Weapons of mass destruction (WMDs) are a direct consequence of 20th-century technology. The challenges that we face in coming to grips with the awesome destructive power that WMDs hold will be a dominant theme of the 21st century.</td>
<td>ENGR 4213.</td>
<td>Lecture: 3 Contact: 3</td>
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<td>Mass Destruction</td>
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<tr>
<td>ENGR 4300</td>
<td>Nuclear Engineering Special Topics</td>
<td>Special topics, variable credit hour course (1-8 credits) for Nuclear Minor.</td>
<td>ENGR 4213 and MATH 2233.</td>
<td>Lecture: 1-8 Contact: 1-8</td>
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<tr>
<td>Dean of Engineering</td>
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ENGR 4353 Materials Requirement and Selection for Nuclear Energy Applications
Prerequisites: CHEM 1314 and MATH 2153 and ENSC 2213 and ENSC 2143 or permission of instructor.
Description: With the resurgence of the nuclear power industry and the growth of the nuclear Navy, there is a need for engineers trained in the materials needs of the nuclear industry. This course covers corrosion and degradation of materials in the nuclear and non-nuclear portions of nuclear power facilities.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 4400 Interdisciplinary Senior Design
Prerequisites: Permission of the instructor and department for all students.
Description: Open-ended interdisciplinary design project with team format addressing real world challenges through applied engineering, collaborative problem-solving and design solutions, prototyping, economic analysis, project management, and fostering entrepreneurial/intrapreneurial opportunities. Projects may be sponsored by a company, agency, individual or be self-generated. Team members work with sponsors, professionals, and faculty who serve as mentors in fields related to their project focus.
Credit hours: 1-4
Contact hours: Lab: 2-8 Contact: 2-8
Levels: Undergraduate
Schedule types: Lab
Department/School: Dean of Engineering

ENGR 5010 Engineering Problems and Design
Prerequisites: Permission of instructor.
Description: Special projects and independent study. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.
Credit hours: 1-6
Contact hours: Lecture: 1-6 Contact: 1-6
Levels: Graduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 5103 Advanced Impact of Law on Engineering Practice
Prerequisites: Graduate standing.
Description: Principles and impact of U.S. and international laws and regulations on technical professionals, including the impact of environmental regulations, intellectual property laws, tort claims, and product liability on the design, research and oversight of technologies.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 5113 Advanced Intellectual Property Law for Technical Professionals
Prerequisites: Graduate standing.
Description: Law and regulations of patents and other IP protection methods. Impact of statutory and common law has made on the practice of technical professionals and how they can exploit IP in their daily work.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 5123 Advanced Tort and Products Liability Law for Technical Professionals
Prerequisites: Graduate standing.
Description: Legal liability of the work product and duties of technical professionals to the public. Relevant statutory, regulatory and common law relating to torts, specifically products liability.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 5133 Advanced Environmental Law for Technical Professionals
Prerequisites: Graduate standing.
Description: Environmental laws and regulations are omnipresent in the practice of engineering, science, and architecture. This course will survey the environmental laws and regulations affecting the practice of these professions.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 5333 Production Engineering
Prerequisites: Consent of instructor.
Description: Fundamental production engineering design, evaluation, and optimization for oil and gas wells, including well deliverability, formation damage and skin analysis, completion performance, and technologies that improve oil and gas well performance. Offered through distance education only. No credit with credit in 4333.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Dean of Engineering

ENGR 5343 Reservoir Engineering
Prerequisites: Consent of instructor.
Description: Reservoir description techniques using petrophysical and fluid properties; engineering methods to determine fluids in place, identify production-drive mechanisms, and forecast reservoir performance; implementation of pressure-maintenance schemes and secondary recovery. Offered through distance education only. No credit with credit in 4343.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Dean of Engineering