School of Engineering

Overview
Academics & Admissions
Departments
Programs
Minors
Courses
Faculty
Awards

Courses

School of Engineering

- C OP 201: CO-OP Work Experience
- C OP 202: CO-OP Work Experience
- C OP 300: Cooperative Education
- C OP 301: CO-OP Work Experience
- C OP 302: CO-OP Work Experience
- C OP 401: CO-OP Work Experience
- C OP 402: CO-OP Work Experience
- C OP 501: CO-OP Work Experience
- C OP 502: CO-OP Work Experience
- C OP 503: CO-OP Work Experience
- Engr 100: Introduction to Engineering
- Engr 196: Special Topics in Engineering Science
- Engr 197: Special Topics in Engineering Science
- Engr 207: Graphics I
- Engr 208: Graphics II
- Engr 296: Special Topics in Engineering Science
- Engr 297: Special Topics in Engineering Science
- Engr 301: Environmental Engineering Lab I
- Engr 302: Fluid Mechanics Laboratory
- Engr 307: Technical Communications
- Engr 309: Statics
- Engr 310: Engineering Analysis I
- Engr 311: Intermediate Mechanics
- Engr 312: Mechanics of Materials
- Engr 313: Introduction to Materials Science
- Engr 313: Introduction to Materials Science
- Engr 314: Materials Science Laboratory
- Engr 314: Materials Science Laboratory
- Engr 321: Thermodynamics
- Engr 321: Thermodynamics
- Engr 322: Transport Phenomena
- Engr 322: Transport Phenomena
- Engr 323: Fluid Mechanics
- Engr 330: Engineering Systems Analysis and Design
- Engr 340: Engineering Geology
- Engr 340: Engineering Geology
- Engr 351: Socio-Technology I
- Engr 352: Socio-Technology II
- Engr 360: Electric Circuit Theory
- Engr 360: Electric Circuit Theory
- Engr 361: Electric Circuit Laboratory
- Engr 361: Electric Circuit Laboratory
- Engr 363: Introductory Electric Circuit Laboratory
- Engr 363: Introductory Electric Circuit Laboratory
- Engr 390: Professional Communication for Engineers

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http://catalog.olemiss.edu/2020/fall/undergraduate/engineering/courses
- Engr 396: Special Topics in Engineering Science
- Engr 397: Special Topics in Engineering Science
- Engr 400: Leadership & Professionalism in Engineer
- Engr 401: Environmental Engineering Lab II
- Engr 402: Engineering Fundamentals
- Engr 407: Legal and Moral Aspects of Engineering
- Engr 410: Engineering Analysis II
- Engr 410: Engineering Analysis II
- Engr 415: Engineering Acoustics I
- Engr 420: Engineering Analysis III
- Engr 420: Engineering Analysis III
- Engr 450: Product Design and Development
- Engr 453: Prob and Stat Analyses in Engr Design
- Engr 496: Special Topics in Engineering Science
- Engr 497: Special Topics in Engineering Science
- Engr 501: Fundamentals of Computer Science
- Engr 502: Software Systems
- Engr 515: Acoustics
- Engr 537: Environmental Engineering II
- Engr 551: Engineering Thermodynamics
- Engr 553: Heat Transfer
- Engr 555: Field Testing & Insr. in Geotech. Engr.
- Engr 558: Vibration Analysis
- Engr 559: Elements of Robotics
- Engr 571: Service Learning in Water Treatment
- Engr 572: Advanced Sanitary Analysis
- Engr 573: Environmental Remediation
- Engr 577: Geophysics I
- Engr 579: Geophysics II
- Engr 582: Interdisciplinary Field Projects
- Engr 589: Mechanics of Composite Materials I
- Engr 590: Finite Element Analysis I
- Engr 591: Engineering Analysis I
- Engr 592: Engineering Analysis II
- Engr 593: Approximate Methods of Engr Analysis I
- Engr 594: Approximate Methods of Engr Analysis II
- Engr 596: Special Projects in Engineering Science
- Engr 597: Special Projects in Engineering Science
- Engr 598: Special Projects in Engineering Science
- Engr 600: Advanced Geochemistry
- Engr 601: Compressible Flow
- Engr 602: Lithostratigraphy
- Engr 603: Fluid Mechanics I
- Engr 604: Fluid Dynamics II
- Engr 605: Convective Heat and Mass Transfer
- Engr 606: Numerical Heat Transfer and Fluid Flow
- Engr 607: Statistical Thermodynamics
- Engr 608: Physical Gas Dynamics
- Engr 609: Time Series Analysis
- Engr 610: Data Communications Protocols
- Engr 611: Aeroacoustics
- Engr 612: Aerelasticity
- Engr 613: Exp Method in Aerodynamics/Aeroacoustics
- Engr 614: Geometrics
- Engr 615: Analytical Petroleum Geology
- Engr 616: Isotope Hydrogeology
- Engr 617: Continuum Mechanics
- Engr 618: Vadose Zone Hydrology
- Engr 620: Advanced Remote Sensing
• Engr 622: Advanced Electromagnetic Theory
• Engr 624: Active Microwave Circuits
• Engr 625: Adv. Topics in Computational Mechanics
• Engr 626: Numerical Methods in Electromagnetics
• Engr 627: Ray Methods in Electromagnetics
• Engr 629: Televisions Systems II
• Engr 630: Unit Process & Oper in Env Eng I
• Engr 631: Unit Process & Oper in Env Eng II
• Engr 632: Sludge Treatment and Disposal
• Engr 633: Process Dynamics and Control I
• Engr 634: Treatment & Disposal of Industrial Waste
• Engr 635: Optimization
• Engr 636: Groundwater Mechanics
• Engr 637: Groundwater Modeling
• Engr 638: Hazardous Waste Management
• Engr 639: Environmental Systems Engineering
• Engr 640: Stream and Estuarine Analysis
• Engr 641: Clay Petrology
• Engr 642: X-Ray Diffraction Analysis
• Engr 643: Advanced Geomorphology
• Engr 644: Carbonate Petrology
• Engr 645: Contaminant Transport
• Engr 646: Advanced Stratigraphy
• Engr 647: Pavement Management Systems
• Engr 648: Numerical Modeling in Geoscience & Engr
• Engr 649: Advanced Foundation Engineering
• Engr 650: Radar Remote Sensing
• Engr 652: Advanced Compiler Design
• Engr 653: Computer Structures
• Engr 654: Information Systems Principles
• Engr 654: Information Systems Principles
• Engr 656: Operating Systems Design Concepts
• Engr 657: Timesharing Computer Systems
• Engr 659: Advanced Information Retrieval
• Engr 660: Software Engineering II
• Engr 660: Software Engineering II
• Engr 661: Computer Networks II
• Engr 661: Computer Networks II
• Engr 662: Advanced Artificial Intelligence
• Engr 663: Advanced Rate and Equilibrium Processes
• Engr 664: Theory of Concurrent Programming
• Engr 665: Thermodynamics of Chemical Systems
• Engr 666: Fault Tolerant Computing
• Engr 667: Mass Transfer I
• Engr 669: Chemical Reaction & Reactor Analysis I
• Engr 670: Chemical Reaction & Reactor Analysis II
• Engr 671: Elasticity
• Engr 672: Viscoelasticity
• Engr 673: Plasticity
• Engr 674: Fracture Mechanics
• Engr 677: Plates and Shells
• Engr 678: Elasticity
• Engr 679: Wave Propagation
• Engr 680: Advanced Acoustics
• Engr 683: Advanced Physical Metallurgy
• Engr 684: Advanced Mechanical Metallurgy
• Engr 685: Mechanics of Composite Materials II
• Engr 686: Multimedia Technologies II
• Engr 687: Special Functions for Applications
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Thursday, December 5, 2019 at 12:22:28 pm CST
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<td>Manf 250</td>
<td>Graphics/Solid Modeling</td>
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<td>Manf 251</td>
<td>Manufacturing Processes</td>
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<td>Product Realization Laboratory</td>
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<td>Manf 253</td>
<td>Strategic Planning</td>
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<td>Manf 254</td>
<td>Continuous Flow/Layout</td>
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<td>Manf 255</td>
<td>Lean I: Standardized Work &amp; Takt Time</td>
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<td>Standardized Work/Takt Time</td>
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<td>Manufacturing Product/Process Design</td>
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<td>Accounting &amp; Financial Mgmt for Manf</td>
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<td>Lean II: Continuous Flow/Layout</td>
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<td>Special Topics in Manufacturing</td>
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<td>Manf 450</td>
<td>Practical Problem Solving in Manf</td>
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<tr>
<td>Manf 451</td>
<td>Manf Design-Product Realization</td>
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<td>Manf Design-Product Realization, II</td>
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<td>Lean III: Practical Problem Solving</td>
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<td>Manf 460</td>
<td>Introduction to Project Management</td>
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<td>Manf 470</td>
<td>Principles of Lean Six Sigma</td>
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<td>Special Topics in Manufacturing</td>
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**Biomedical Engineering**

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<td>BME 222</td>
<td>Biomaterials</td>
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<td>Bioinstrumentation</td>
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<td>BME 313</td>
<td>Physiology for Biomedical Engineering</td>
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<td>BME 314</td>
<td>Biomedical Measurement</td>
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<td>BME 320</td>
<td>Bioseparations</td>
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<td>Biological Transport</td>
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<td>BME 350</td>
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<td>BME 461</td>
<td>Biomedical Engineering Senior Design I</td>
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<td>BME 462</td>
<td>Biomedical Engineering Senior Design II</td>
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**Chemical Engineering**

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<td>Introduction to Chemical Engineering I</td>
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<td>Ch E 104</td>
<td>Introduction to Chemical Engineering II</td>
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<td>Ch E 251</td>
<td>Programming for Chemical Engineering</td>
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<td>Ch E 307</td>
<td>Chemical Process Principles I</td>
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<td>Ch E 308</td>
<td>Chemical Process Principles II</td>
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<td>Ch E 309</td>
<td>Intro to Chemical Engineering Design</td>
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<td>Ch E 313</td>
<td>Modeling and Simulation I</td>
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<td>Ch E 314</td>
<td>Modeling and Simulation II</td>
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<td>Ch E 317</td>
<td>Process Fluid Dynamics and Heat Transfer</td>
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<td>Ch E 330</td>
<td>Chemical Eng. R &amp; D Experience</td>
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<td>Ch E 345</td>
<td>Engineering Economy</td>
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<td>Ch E 407</td>
<td>Chemical Engineering Projects I</td>
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<td>Chemical Engineering Projects II</td>
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<td>Ch E 411</td>
<td>Chemical Engineering Seminar</td>
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<td>Ch E 412</td>
<td>Process Control and Safety</td>
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<td>Separation Processes</td>
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<td>Chemical Engineering Thermodynamics</td>
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<td>Ch E 423</td>
<td>Chemical Reactor Analysis and Design</td>
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<td>CHE Mass and Energy Balance Lab</td>
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<td>CHE Unit Operations Lab</td>
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<td>Ch E 433</td>
<td>CHE Design Lab</td>
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• Ch E 445: Chemical Engineering Lab I
• Ch E 446: Chemical Engineering Lab II
• Ch E 451: Plant Design I
• Ch E 452: Plant Design II
• Ch E 460: Product Design I: Development, Evaluation
• Ch E 461: Product Design II: Product Realization
• Ch E 470: Principles of Lean Six Sigma
• Ch E 511: Process Dynamics and Control
• Ch E 513: Special Topics in Chemical Engineering
• Ch E 515: Research Seminar
• Ch E 520: Biochemical Engineering
• Ch E 530: Coal Utilization and Pollutants Control
• Ch E 535: Experimental Methods in Engineering
• Ch E 540: Coating Materials Process & Applications
• Ch E 541: Appl of Chemical Instrumentation I
• Ch E 542: Appl of Chemical Instrumentation II
• Ch E 543: Introduction to Polymer Science
• Ch E 545: Colloid and Surface Science
• Ch E 547: Surfactant Science and Applications
• Ch E 550: Membrane Science and Engineering
• Ch E 560: Advanced Transport Phenomena I
• Ch E 561: Advanced Transport Phenomena II
• Ch E 593: Graduate Projects in Chemical Engr
• Engr 540: Environmental Organic Transport Phenomen

Civil Engineering
• C E 101: Introduction to Civil Engineering I
• C E 102: Introduction to Civil Engineering II
• C E 205: Civil Engineering Laboratory I
• C E 207: Surveying
• C E 208: Civil Engineering Graphics I
• C E 305: Civil Engineering Laboratory II
• C E 310: Introduction to Structural Mechanics
• C E 311: Structural Analysis
• C E 315: Civil Engineering Materials
• C E 325: Intermediate Dynamics
• C E 401: Civil Engineering Fundamentals
• C E 405: Civil Engineering Laboratory III
• C E 412: Design of Concrete Structures
• C E 413: Steel Design
• C E 414: Advanced Concrete Design
• C E 416: Bridge Engineering
• C E 417: Construction Engineering and Management
• C E 421: Matrix Analysis of Structures
• C E 431: Soil Mechanics I
• C E 433: Foundation Engineering
• C E 435: Advanced Geotechnical Engineering
• C E 452: Civil Engineering Analysis
• C E 455: Civil Engineering Design I
• C E 456: Civil Engineering Design II
• C E 471: Environmental Engineering I
• C E 472: Water Resources Engineering
• C E 481: Transportation Engineering I
• C E 495: Geospatial Analysis for Engr & Vis Apps
• C E 497: Civil Engineering Projects
• C E 511: Structural Dynamics
• C E 514: Pre-Stressed Concrete Design
• C E 521: Advanced Mechanics of Materials
• C E 531: Soil Mechanics II
• C E 541: Flow in Open Channels
- C E 542: Flow in Porous Media
- C E 543: Sediment Transport
- C E 561: Civil Engineering Systems
- C E 570: Infrastructure Management
- C E 572: Stormwater Engineering and Management
- C E 581: Transportation Engineering II
- C E 585: Highway Pavements
- C E 590: Airport Planning and Design

**Computer & Information Science**
- Csci 103: Survey of Computing
- Csci 111: Computer Science I
- Csci 112: Computer Science II
- Csci 191: Office Applications
- Csci 192: Computing Applications
- Csci 193: Personal Computer Systems
- Csci 203: Introduction to Computational Media
- Csci 211: Computer Science III
- Csci 223: Computer Org. & Assembly Language
- Csci 251: Programming for Engineering and Sciences
- Csci 256: Programming in Python
- Csci 259: Programming in C++
- Csci 300: Social Responsibility in Comp. Science
- Csci 305: Software for Global Use
- Csci 311: Models of Computation
- Csci 323: Systems of Programming
- Csci 333: Digital Design and 3-D Printing
- Csci 343: Fundamentals of Data Science
- Csci 345: Information Storage and Retrieval
- Csci 353: Introduction to Numerical Methods
- Csci 354: Web Programming
- Csci 356: Data Structures in Python
- Csci 361: Introduction to Computer Networks
- Csci 387: Software Design and Development
- Csci 390: Special Topics in Programming
- Csci 391: Computer Graphics
- Csci 405: Computer Simulation
- Csci 423: Introduction to Operating Systems
- Csci 425: Code Generation and Optimization
- Csci 427: Fundamentals of Computer Security
- Csci 431: Robotics Programming
- Csci 433: Algorithm and Data Structure Analysis
- Csci 443: Advanced Data Science
- Csci 444: Information Visualization
- Csci 447: Immersive Media
- Csci 450: Organization of Programming Languages
- Csci 458: Mobile Application Development
- Csci 475: Introduction to Database Systems
- Csci 487: Senior Project
- Csci 490: Special Topics
- Csci 500: Fundamental Concepts in Computing
- Csci 501: Fundamental Concepts in Systems
- Csci 502: Fundamental Concepts in Algorithms
- Csci 503: Fundamental Concepts in Languages
- Csci 517: Natural Language Processing
- Csci 520: Formal Theory of Computer Languages
- Csci 521: Computer Systems Engineering
- Csci 523: Operating Systems
- Csci 524: Distributed Operating System Design
- Csci 525: Compiler Construction
Csci 526: Parallel Computing  
Csci 530: Computer Architecture and Design  
Csci 531: Artificial Intelligence  
Csci 533: Analysis of Algorithms  
Csci 541: Expert Systems and Logic Programming  
Csci 543: Data Mining  
Csci 547: Digital Image Processing  
Csci 550: Program Semantics and Derivation  
Csci 551: Computer System Performance Analysis  
Csci 554: Web Architecture and Programming  
Csci 555: Functional Programming  
Csci 556: Multiparadigm Programming  
Csci 561: Computer Networks  
Csci 562: Software Engineering I  
Csci 575: Database Systems  
Csci 581: Special Topics in Computer Science I  
Csci 582: Special Topics in Computer Science II  
Csci 632: Machine Learning  
Csci 658: Software Language Engineering  
Csci 663: Software Families  
Csci 665: Wireless and Sensor Networks  

Electrical Engineering  
El E 100: Introduction to Electrical Engineering  
El E 101: Survey of the Electrotechnology  
El E 235: Principles of Digital Systems  
El E 236: Digital Systems Laboratory I  
El E 237: Electrical Engineering Tools and Toys  
El E 301: Applied Electronics  
El E 302: Applied Communication Systems  
El E 331: Linear Systems  
El E 337: Digital Systems Laboratory II  
El E 340: Electrical Engineering Analysis I  
El E 341: Theory of Fields  
El E 351: Electronics Circuits I  
El E 352: Electronics Circuits II  
El E 353: Electronics Laboratory  
El E 354: PC-Based Instrumentation Laboratory  
El E 357: Electrical Engineering Problems I  
El E 358: Electrical Engineering Problems II  
El E 367: Computer-Aided Design in Electrical Engr  
El E 385: Advanced Digital Systems  
El E 386: Advanced Digital Systems Laboratory  
El E 391: Random Signals  
El E 414: Biomedical Electronics  
El E 415: Telecommunications Laboratory  
El E 425: Local Area Networks  
El E 431: Theory of Control Systems  
El E 432: Robotics Laboratory  
El E 433: High Frequency and Microwave Laboratory  
El E 434: Fiber Optics Laboratory  
El E 436: Systems Laboratory  
El E 441: Electromagnetic Theory I  
El E 442: Electromagnetic Theory II  
El E 443: Network Analysis and Synthesis  
El E 447: Modulation, Noise, and Communications  
El E 449: Analog Communications Laboratory  
El E 450: Digital Communications Laboratory  
El E 451: Electrical Energy Conversion  
El E 452: Electric Power Transformer Laboratory  

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<td>Sr. Design in Electrical Engineering I</td>
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<td>El E 481</td>
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<td>Microprocessor Systems Engineering</td>
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<td>Digital Signal Processing Laboratory</td>
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<td>Electrical Engineering Projects I</td>
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<td>El E 535</td>
<td>Digital Communications</td>
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<td>El E 586</td>
<td>Digital Signal Processing</td>
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**Geology & Geological Engineering**

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<td>Intro. to Geol. Engr. Field Methods</td>
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<td>G E 301</td>
<td>Geological Eng. Design Field Camp 1</td>
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<td>G E 305</td>
<td>Geomechanics</td>
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<td>G E 401</td>
<td>Geological Eng. Design Field Camp 2</td>
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<td>G E 402</td>
<td>Professionalism in Geological Engr.</td>
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<td>Engineering Geophysics</td>
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<td>Petroleum Geology</td>
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<td>Subsurface Site Characterization</td>
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<td>Geological Field Studies I</td>
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• Geol 107: Introduction to Oceanography
• Geol 111: Physical Geology Laboratory
• Geol 112: Historical Geology Laboratory
• Geol 114: Environmental Geology-Hazards Laboratory
• Geol 115: Environmental Geology - Resources Lab
• Geol 120: Dinosaurs
• Geol 203: Earth Dynamics Laboratory Content
• Geol 221: Mineralogy
• Geol 222: Elementary Petrology
• Geol 225: Mineralogy & Elementary Petrology
• Geol 303: Structural and Tectonic Geology
• Geol 305: Geomorphology
• Geol 309: Invertebrate Paleontology
• Geol 314: Sedimentology and Stratigraphy
• Geol 406: Petrology
• Geol 410: Coastal and Reef Dynamics
• Geol 420: Optical Mineralogy
• Geol 500: Intro. to Geographic Information Systems
• Geol 505: Hydrogeology
• Geol 506: Advanced Petrology
• Geol 515: Directed Studies
• Geol 517: Global Tectonics
• Geol 518: Quantitative Methods in Geo. & Geo Eng
• Geol 520: Advanced Igneous and Metamorphic Petrology
• Geol 530: Geology Field Studies
• Geol 535: Geochemistry
• Geol 550: Oceanography and Marine Geology
• Geol 555: Geology and Geo. Engineering Seminar
• Geol 603: Earth Sciences I
• Geol 604: Earth Sciences II
• Geol 609: Earth Science Projects
• Geol 610: Earth Science Projects
• Geol 611: Advanced Studies in Geology
• Geol 613: Instrumental and Analytical Procedure
• Geol 614: Advanced Geographic Information Systems
• Geol 615: Geostatistics
• Geol 630: Coastal Plain Geology
• Geol 641: Clay Petrology
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Mechanical Engineering
• M E 101: Introduction to Mechanical Engineering
• M E 201: Engineering Graphics Fundamentals
• M E 324: Introduction to Mechanical Design
• M E 325: Intermediate Dynamics
• M E 399: Thermodynamics II
• M E 401: Thermo-fluid Dynamics
• M E 402: Elements of Propulsion
• M E 404: Applied Fluid Mechanics
• M E 406: Alternative Energy Systems
• M E 416: Structures and Dynamics Laboratory
- M E 417: Projects
- M E 418: Projects
- M E 419: Energy and Fluids Laboratory
- M E 420: Experimental Mechanical Engineering II
- M E 421: Structural Analysis
- M E 422: Structural Design I
- M E 426: Kinematics: Analysis and Synthesis
- M E 427: Kinematic Analysis and Synthesis
- M E 428: Dynamics of Machinery
- M E 439: Mechanical Engineering Design
- M E 521: Projects
- M E 522: Projects
- M E 523: Special Topics in Mechanical Engineering
- M E 524: Special Topics in Mechanical Engineering
- M E 525: Advanced Dynamics
- M E 526: Experimental Methods
- M E 527: Materials Processing
- M E 528: Polymer Processing
- M E 529: Aerodynamics
- M E 530: Physical Metallurgy
- M E 531: Mechanical Behavior of Engr Materials
- M E 532: Glass and Ceramics
- M E 533: Electronic Properties of Materials
- M E 534: Properties and Selection of Materials
- M E 535: Experimental Stress Analysis
- M E 537: Mechatronic Systems Engineering
- M E 538: Exptl Character of Polymer Composites
- M E 540: Failure Analysis
- M E 541: Theory and Use of CAD and Solid Modeling
- M E 543: Linear Systems and Controls
- M E 555: Heating Ventilation and Air-Conditioning