School of Engineering

Overview
Academics & Admissions
Departments
Programs
Minors
Courses
Faculty
Awards

Courses

School of Engineering

- COP 201: CO-OP Work Experience
- COP 202: CO-OP Work Experience
- COP 300: Cooperative Education
- COP 301: CO-OP Work Experience
- COP 302: CO-OP Work Experience
- COP 401: CO-OP Work Experience
- COP 402: CO-OP Work Experience
- COP 501: CO-OP Work Experience
- COP 502: CO-OP Work Experience
- COP 503: CO-OP Work Experience
- Engr 100: Introduction to Engineering
- Engr 102: Principles of Engineering
- Engr 196: Special Topics in Engineering Science
- Engr 197: Special Topics in Engineering Science
- Engr 207: Graphics I
- Engr 296: Special Topics in Engineering Science
- Engr 297: Special Topics in Engineering Science
- Engr 307: Technical Communications
- Engr 309: Statics
- Engr 310: Engineering Analysis I
- Engr 310: Engineering Analysis I
- Engr 311: Intermediate Mechanics
- Engr 312: Mechanics of Materials
- 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 323: Fluid Mechanics
- Engr 330: Engineering Systems Analysis and Design
- 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

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• Engr 363: Introductory Electric Circuit Laboratory
• Engr 390: Professional Communication for Engineers
• Engr 396: Special Topics in Engineering Science
• Engr 397: Special Topics in Engineering Science
• Engr 400: Leadership & Professionalism in Engineer
• 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 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 551: Engineering Thermodynamics
• Engr 553: Heat Transfer
• Engr 553: Heat Transfer
• Engr 555: Field Testing & Insr. in Geotech. Engr.
• Engr 558: Vibration Analysis
• Engr 559: Elements of Robotics
• Engr 559: Elements of Robotics
• Engr 571: Service Learning in Water Treatment
• Engr 573: Environmental Remediation
• Engr 577: Geophysics I
• Engr 579: Geophysics II
• Engr 582: Interdisciplinary Field Projects
• Engr 585: 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 633: Process Dynamics and Control I
- Engr 635: Optimization
- Engr 636: Groundwater Mechanics
- Engr 637: Groundwater Modeling
- 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 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 655: Operating Systems Design Concepts
- Engr 657: Timesharing Computer Systems
- Engr 659: Advanced Information Retrieval
- Engr 660: Software Engineering II
- Engr 666: Fault Tolerant Computing
- Engr 667: Mass Transfer I
- Engr 669: Chemical Reaction and 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
- Engr 688: Current Issues in Telecommunications
- Engr 689: Control of Robotics Manipulators
- Engr 690: Finite Element Analysis II
- Engr 691: Special Topics in Engineering Science I
- Engr 692: Special Topics in Engineering Science II
- Engr 693: Research Topics in Engineering Science I
• Engr 694: Research Topics in Eng. Science II
• Engr 695: Seminar
• Engr 696: Seminar in Environmental Engineering
• Engr 697: Thesis
• Engr 698: Special Topics in Engineering Science
• Engr 702: Finite Element Analysis of Fluid Flows
• Engr 706: Adv Waste Treat Proc in Sanitary Eng
• Engr 711: Turbulence
• Engr 712: Statistical Theory Turbulent Diffusion
• Engr 713: Hydrodynamic Stability
• Engr 714: Coastal Hydrodynamics
• Engr 715: Applied Hydro- and Aeromechanics I
• Engr 716: Applied Hydro- and Aeromechanics II
• Engr 717: Special Topics in Thermal Science
• Engr 718: Coding for Error Code
• Engr 719: Advanced Microwave Measurements
• Engr 720: Advanced Turbulence
• Engr 721: Advanced Electrodynamics
• Engr 723: Passive Microwave Circuits
• Engr 725: Antennas
• Engr 728: Adv Numerical Methods in Electromagnetic
• Engr 729: Special Topics in Electromagnetic Theory
• Engr 740: Special Topics in Soil Science
• Engr 744: Special Topics in Solid Mechanics
• Engr 797: Dissertation
• Engs 501: Geospatial Primer
• Engs 504: Remote Sensing Fundamentals
• Engs 523: Sensors and Platforms
• Engs 603: Analysis of Algorithms
• Engs 606: Computer Networks
• Engs 610: Telecommunication Network Engineering
• Engs 611: Geospatial Science Primer
• Engs 612: Remote Sensing Fundamentals
• Engs 613: Introduction to Remote Sensing Systems
• Engs 614: Remote Sensing and Digital Images
• Engs 620: Geospatial Information Technology
• Engs 621: Orbital Mechanics
• Engs 624: Introduction to Digital Image Processing
• Engs 626: Community Growth
• Engs 627: Applied Probability Modeling
• Engs 633: Microwave Filters
• Engs 671: Digital Topographic Mapping
• Engs 672: Remote Sensing and the Environment
• Engs 673: Advanced Digital Image Processing
• Engs 674: Geospatial Data Synthesis and Modeling
• Engs 675: Microwave Data
• Engs 681: Advanced Sensor Systems Data Collection
• Engs 682: Remote Sensing to Ecological Modeling
• Engs 683: Land Use and Land Cover Applications
• Engs 684: Agricultural Applications Remote Sensing
• Engs 685: Business Geographics
• GE 681: Applications in Geophysics
• Manf 150: Intro to Engineering / Manufacturing
• Manf 152: Intro to Engineering & Manufacturing II
• Manf 250: Graphics/Solid Modeling
• Manf 251: Manufacturing Processes
• Manf 252: Product Realization Laboratory
• Manf 253: Strategic Planning
• Manf 254: Continuous Flow/Layout

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Ch E 449: Process Design
Ch E 450: Process Optimization
Ch E 451: Plant Design I
Ch E 452: Product and Process Development
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 521: Drug and Gene Delivery
Ch E 522: Immunoengineering
Ch E 523: Molecular and Cellular Biophysics
Ch E 524: Microscopy for Engineers
Ch E 528: Polymer Processing
Ch E 535: Experimental Methods in Engineering
Ch E 540: Coating Materials Process & Applications
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
Engr 542: Molecular Modeling of Nano Materials
Engr 544: Synth and Fab of Nano Materials
Engr 545: Polymer Nanocomposites

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 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 500: Geographic Information Systems Engr Sci
C E 511: Structural Dynamics
C E 513: Advanced Steel Design
C E 514: Pre-Stressed Concrete Design
C E 516: Bridge Engineering
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 574: Wastewater Engineering
C E 575: Drinking Water Engineering
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 325: Foundations of Computer Security
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 426: System Security
Csci 427: Network 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 491: Special Topics in Computer Security
Csci 492: Special Topics in Data Science
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 557: GPU Computing
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 and Computer Engineering
 Cp E 421: Embedded Systems Design
 Cp E 431: Computer Architecture
 Cp E 432: Testing of Computing Systems
 Cp E 461: Senior Design in Computer Engineering I
 Cp E 462: Senior Design in Computer Engineering II
 ECE 361: Design and Design Tools in ECE
 El E 100: Introduction to Electrical Engineering
 El E 235: Principles of Digital Systems
 El E 236: Digital Systems Laboratory I
 El E 237: Electrical Engineering Tools and Toys
 El E 322: Electric Circuit II
 El E 331: Signals and 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 357: Electrical Engineering Problems I
 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: Probability and Random Signals
 El E 415: Telecommunications Laboratory
 El E 425: Local Area Networks
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EI E 431</td>
<td>Theory of Control Systems</td>
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<tr>
<td>EI E 432</td>
<td>Robotics Laboratory</td>
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<tr>
<td>EI E 433</td>
<td>High Frequency and Microwave Laboratory</td>
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<tr>
<td>EI E 441</td>
<td>Electromagnetic Theory I</td>
</tr>
<tr>
<td>EI E 442</td>
<td>Electromagnetic Theory II</td>
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<tr>
<td>EI E 443</td>
<td>Network Analysis and Synthesis</td>
</tr>
<tr>
<td>EI E 447</td>
<td>Modulation, Noise, and Communications</td>
</tr>
<tr>
<td>EI E 451</td>
<td>Electrical Energy Conversion</td>
</tr>
<tr>
<td>EI E 453</td>
<td>Solid State Devices</td>
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<tr>
<td>EI E 461</td>
<td>Sr. Design in Electrical Engineering I</td>
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<tr>
<td>EI E 462</td>
<td>Sr. Design in Electrical Engineering II</td>
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<tr>
<td>EI E 481</td>
<td>Fund. Low Power Dig. VLSI Design</td>
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<tr>
<td>EI E 482</td>
<td>Digital CMOS VLSI Design</td>
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<td>EI E 485</td>
<td>Microprocessor Systems Engineering</td>
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<td>EI E 486</td>
<td>Microprocessor Systems Engr Lab</td>
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<td>EI E 487</td>
<td>Digital Signal Processing Laboratory</td>
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<td>EI E 521</td>
<td>Electrical Engineering Projects I</td>
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<td>EI E 522</td>
<td>Electrical Engineering Projects II</td>
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<tr>
<td>EI E 523</td>
<td>Microwave Engineering</td>
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<tr>
<td>EI E 525</td>
<td>Introduction to Antennas</td>
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<td>EI E 533</td>
<td>Electronic Properties of Materials</td>
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<td>EI E 534</td>
<td>Wireless Mobile Communications</td>
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<td>EI E 535</td>
<td>Digital Communications</td>
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<tr>
<td>EI E 536</td>
<td>Introduction to Quantum Computing</td>
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<td>EI E 551</td>
<td>Microwave Circuit Design</td>
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<tr>
<td>EI E 586</td>
<td>Digital Signal Processing</td>
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</tbody>
</table>

**Geology & Geological Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>GE 234</td>
<td>Intro to Geol. Engr. Field Methods</td>
</tr>
<tr>
<td>GE 301</td>
<td>Geological Eng. Design Field Camp 1</td>
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<tr>
<td>GE 305</td>
<td>Geomechanics</td>
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<tr>
<td>GE 401</td>
<td>Geological Eng. Design Field Camp 2</td>
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<tr>
<td>GE 405</td>
<td>Engineering Geophysics</td>
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<tr>
<td>GE 415</td>
<td>Petroleum Geology</td>
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<tr>
<td>GE 420</td>
<td>Subsurface Site Characterization</td>
</tr>
<tr>
<td>GE 421</td>
<td>Geological Engineering Design</td>
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<tr>
<td>GE 430</td>
<td>Geological Field Studies I</td>
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<tr>
<td>GE 436</td>
<td>Field Camp GE Design</td>
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<td>GE 437</td>
<td>Geological Engineering Design Field Camp</td>
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<tr>
<td>GE 450</td>
<td>Hydrogeology</td>
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<td>GE 470</td>
<td>Intro. to Geographic Information System</td>
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<tr>
<td>GE 490</td>
<td>Directed Studies and Projects</td>
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<tr>
<td>GE 503</td>
<td>Environmental Geochemistry</td>
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<td>GE 507</td>
<td>Regional Geological Engineering</td>
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<td>GE 510</td>
<td>Remote Sensing</td>
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<td>GE 511</td>
<td>Spatial Analysis</td>
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<td>GE 513</td>
<td>Economic Geology</td>
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<td>GE 525</td>
<td>Engineering Seismology</td>
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<td>GE 530</td>
<td>Advanced Geomechanics</td>
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<td>GE 540</td>
<td>Rock Mechanics</td>
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<td>GE 577</td>
<td>Geophysics I</td>
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<td>GE 591</td>
<td>Special Topics</td>
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<tr>
<td>GE 635</td>
<td>Advanced Rock Mechanics</td>
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<tr>
<td>Geol 101</td>
<td>Physical Geology</td>
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<td>Geol 102</td>
<td>Historical Geology</td>
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<td>Geol 103</td>
<td>Earth Dynamics</td>
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<tr>
<td>Geol 104</td>
<td>Environmental Geology - Hazards</td>
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<tr>
<td>Geol 105</td>
<td>Environmental Geology - Resources</td>
</tr>
<tr>
<td>Geol 106</td>
<td>Earth History</td>
</tr>
</tbody>
</table>

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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 410: Coastal and Reef Dynamics
- Geol 420: Optical Mineralogy
- Geol 500: Intro. to Geographic Information Systems
- Geol 505: Hydrogeology
- 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 514: Advanced Geographic Information Systems
- Geol 615: Geostatistics
- Geol 630: Coastal Plain Geology
- Geol 643: Advanced Geomorphology
- Geol 645: Advanced Sedimentation
- Geol 646: Advanced Stratigraphy
- Geol 647: Sedimentary Petrology
- Geol 648: Metamorphic Petrology
- Geol 649: Pedology
- Geol 690: Scientific Writing
- Geol 697: Thesis

**Mechanical Engineering**

- Engr 546: Micro/Nanoscale Fabrication
- 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 401: Thermo-fluid Dynamics
- M E 402: Elements of Propulsion
- M E 416: Structures and Dynamics Laboratory
- M E 417: Projects
- M E 418: Projects
- M E 419: Energy and Fluids Laboratory
- M E 426: Kinematics: Analysis and Synthesis
- M E 428: Dynamics of Machinery
- M E 438: 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 527: Materials Processing
- M E 529: Aerodynamics
- M E 530: Physical Metallurgy
- M E 531: Mechanical Behavior of Engr Materials

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https://catalog.olemiss.edu/2023/fall/undergraduate/engineering/courses
• 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 541: Theory and Use of CAD and Solid Modeling
• M E 543: Linear Systems and Controls