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 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
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 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: Plasticity
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 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 722: Passive Microwave Circuits
- Engr 723: Antennas
- Engr 728: Special Topics in Electromagnetic Theory
- Engr 749: Special Topics in Soil Science
- Engr 779: Special Topics in Solid Mechanics
- Engr 797: Dissertation
- Enos 501: Geospatial Primer
- Enos 504: Remote Sensing Fundamentals
- Enos 523: Sensors and Platforms
- Engs 603: Analysis of Algorithms
- Engs 606: Computer Networks
- Enos 610: Telecommunication Network Engineering
- Enos 611: Geospatial Science Primer
- Enos 612: Remote Sensing Fundamentals
- Enos 613: Introduction to Remote Sensing Systems
- Enos 614: Remote Sensing and Digital Images
- Enos 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
- G E 681: Applications in Geophysics
- Manf 150: Intro to Engineering / Manufacturing
The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master’s, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

http://catalog.olemiss.edu/2019/spring/undergraduate/engineering/courses
Civil Engineering
- CE 101: Introduction to Civil Engineering I
- CE 102: Introduction to Civil Engineering II
- CE 205: Civil Engineering Laboratory I
- CE 207: Surveying
- CE 208: Civil Engineering Graphics I
- CE 305: Civil Engineering Laboratory II
- CE 310: Introduction to Structural Mechanics
- CE 311: Structural Analysis
- CE 315: Civil Engineering Materials
- CE 325: Intermediate Dynamics
- CE 401: Civil Engineering Fundamentals
- CE 405: Civil Engineering Laboratory III
- CE 412: Design of Concrete Structures
- CE 413: Steel Design
- CE 414: Advanced Concrete Design
- CE 416: Bridge Engineering
- CE 417: Construction Engineering and Management
- CE 421: Matrix Analysis of Structures
- CE 431: Soil Mechanics I
- CE 433: Foundation Engineering
- CE 435: Advanced Geotechnical Engineering
- CE 452: Civil Engineering Analysis
- CE 455: Civil Engineering Design I
- CE 456: Civil Engineering Design II
- CE 471: Environmental Engineering I
- CE 472: Water Resources Engineering
- CE 481: Transportation Engineering I
- CE 495: Geospatial Analysis for Engr & Vis Apps
- CE 497: Civil Engineering Projects
- CE 511: Structural Dynamics
- CE 514: Pre-Stressed Concrete Design
- CE 521: Advanced Mechanics of Materials
- CE 531: Soil Mechanics II
- CE 541: Flow in Open Channels
- CE 542: Flow in Porous Media
- CE 543: Sediment Transport
- CE 561: Civil Engineering Systems
- CE 570: Infrastructure Management
- CE 572: Stormwater Engineering and Management
- CE 581: Transportation Engineering II
- CE 585: Highway Pavements
- CE 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
- BME 200: Introduction to Biomedical Engineering
- BME 301: Bioinstrumentation
- BME 320: Bioseparations
- BME 322: Biomaterials
- BME 333: Biological Transport
- BME 350: Immunotherapy
- BME 444: Biomedical Controls
- BME 461: Biomedical Engineering Senior Design I
- BME 462: Biomedical Engineering Senior Design II
- EI E 100: Introduction to Electrical Engineering
- EI E 101: Survey of the Electrotechnology
- EI E 235: Principles of Digital Systems
- EI E 236: Digital Systems Laboratory I
- EI E 237: Electrical Engineering Tools and Toys
- EI E 301: Applied Electronics
- EI E 302: Applied Communication Systems
- EI E 313: Physiology for Biomedical Engineering
- EI E 314: Biomedical Measurement
- EI E 331: Linear Systems
- EI E 337: Digital Systems Laboratory II
- EI E 340: Electrical Engineering Analysis I
- EI E 341: Theory of Fields
- EI E 351: Electronics Circuits I
- EI E 352: Electronics Circuits II
- EI E 353: Electronics Laboratory
- EI E 354: PC-Based Instrumentation Laboratory
- EI E 357: Electrical Engineering Problems I
- EI E 358: Electrical Engineering Problems II
- EI E 367: Computer-Aided Design in Electrical Engr
- EI E 385: Advanced Digital Systems
- EI E 386: Advanced Digital Systems Laboratory
- EI E 391: Random Signals
- EI E 413: Biomedical Signal Processing
- EI E 414: Biomedical Electronics
- EI E 415: Telecommunications Laboratory
- EI E 425: Local Area Networks
- EI E 431: Theory of Control Systems
- EI E 432: Robotics Laboratory
- EI E 433: High Frequency and Microwave Laboratory
- EI E 434: Fiber Optics Laboratory
- EI E 436: Systems Laboratory
- EI E 441: Electromagnetic Theory I
- EI E 442: Electromagnetic Theory II
- EI E 443: Network Analysis and Synthesis
- EI E 447: Modulation, Noise, and Communications
- EI E 449: Analog Communications Laboratory
- EI E 450: Digital Communications Laboratory
- EI E 451: Electrical Energy Conversion
- EI E 452: Electric Power Transformer Laboratory
- EI E 453: Solid State Devices
- EI E 461: Sr. Design in Electrical Engineering I
- EI E 462: Sr. Design in Electrical Engineering II
- EI E 481: Fund. Low Power Dig. VLSI Design
- EI E 482: Digital CMOS VLSI Design
- EI E 485: Microprocessor Systems Engineering
- EI E 486: Microprocessor Systems Engr Lab
- EI E 487: Digital Signal Processing Laboratory
- EI E 521: Electrical Engineering Projects I
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>El E 522</td>
<td>Electrical Engineering Projects II</td>
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<tr>
<td>El E 523</td>
<td>Microwave Engineering</td>
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<td>El E 525</td>
<td>Introduction to Antennas</td>
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<td>El E 533</td>
<td>Electronic Properties of Materials</td>
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<td>El E 534</td>
<td>Wireless Mobile Communications</td>
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<td>El E 535</td>
<td>Digital Communications</td>
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<td>El E 561</td>
<td>Microwave Circuit Design</td>
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<tr>
<td>El 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>G E 234</td>
<td>Intro. to Geol. Engr. Field Methods</td>
</tr>
<tr>
<td>G E 301</td>
<td>Geological Eng. Design Field Camp 1</td>
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<tr>
<td>G E 305</td>
<td>Geomechanics</td>
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<tr>
<td>G E 401</td>
<td>Geological Eng. Design Field Camp 2</td>
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<tr>
<td>G E 402</td>
<td>Professionalism in Geological Engr.</td>
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<td>G E 405</td>
<td>Engineering Geophysics</td>
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<td>G E 415</td>
<td>Petroleum Geology</td>
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<td>G E 420</td>
<td>Subsurface Site Characterization</td>
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<td>G E 421</td>
<td>Geological Engineering Design</td>
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<tr>
<td>G E 430</td>
<td>Geological Field Studies I</td>
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<td>G E 431</td>
<td>Geological Field Studies II</td>
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<td>G E 436</td>
<td>Field Camp G E Design</td>
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<td>G E 437</td>
<td>Geological Engineering Design Field Camp</td>
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<td>G E 450</td>
<td>Hydrogeology</td>
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<td>G E 460</td>
<td>Fundamentals of Waste Management</td>
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<td>G E 470</td>
<td>Intro. to Geographic Information System</td>
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<td>G E 490</td>
<td>Directed Studies and Projects</td>
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<td>G E 500</td>
<td>Introduction to Geochemistry I</td>
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<td>G E 502</td>
<td>Construction Geological Engineering</td>
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<td>G E 503</td>
<td>Environmental Geochemistry</td>
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<td>G E 504</td>
<td>Envi. Geochemistry Lab &amp; Field Methods</td>
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<td>G E 506</td>
<td>Geomechanics for Geologists</td>
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<td>G E 507</td>
<td>Regional Geological Engineering</td>
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<td>G E 510</td>
<td>Remote Sensing</td>
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<td>G E 511</td>
<td>Spatial Analysis</td>
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<td>G E 513</td>
<td>Economic Geology</td>
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<td>G E 520</td>
<td>Geol. &amp; G.E. Computer Applications</td>
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<td>G E 525</td>
<td>Engineering Seismology</td>
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<td>G E 530</td>
<td>Advanced Geomechanics</td>
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<td>G E 540</td>
<td>Rock Mechanics</td>
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<td>G E 560</td>
<td>Waste Disposal I</td>
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<td>G E 561</td>
<td>Design of Waste Repositories</td>
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<tr>
<td>G E 577</td>
<td>Geophysics I</td>
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<td>G E 591</td>
<td>Special Topics</td>
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<td>G E 635</td>
<td>Advanced Rock Mechanics</td>
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<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 104</td>
<td>Environmental Geology - Hazards</td>
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<td>Geol 105</td>
<td>Environmental Geology - Resources</td>
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<td>Earth History</td>
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<td>Introduction to Oceanography</td>
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<td>Geol 111</td>
<td>Physical Geology Laboratory</td>
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<td>Geol 112</td>
<td>Historical Geology Laboratory</td>
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<td>Geol 114</td>
<td>Environmental Geology-Hazards Laboratory</td>
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<td>Geol 115</td>
<td>Environmental Geology - Resources Lab</td>
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<td>Geol 120</td>
<td>Dinosaurs</td>
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<td>Geol 203</td>
<td>Earth Dynamics Laboratory Content</td>
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<tr>
<td>Geol 221</td>
<td>Mineralogy</td>
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http://catalog.olemiss.edu/2019/spring/undergraduate/engineering/courses
ME 438: Mechanical Engineering Design
ME 521: Projects
ME 522: Projects
ME 523: Special Topics in Mechanical Engineering
ME 524: Special Topics in Mechanical Engineering
ME 525: Advanced Dynamics
ME 526: Experimental Methods
ME 527: Materials Processing
ME 528: Polymer Processing
ME 529: Aerodynamics
ME 530: Physical Metallurgy
ME 531: Mechanical Behavior of Engr Materials
ME 532: Glass and Ceramics
ME 533: Electronic Properties of Materials
ME 534: Properties and Selection of Materials
ME 535: Experimental Stress Analysis
ME 537: Mechatronic Systems Engineering
ME 538: Exprl Character of Polymer Composites
ME 540: Failure Analysis
ME 541: Theory and Use of CAD and Solid Modeling
ME 543: Linear Systems and Controls
ME 555: Heating Ventilation and Air-Conditioning

Telecommunications
TC 201: Introduction to Telecommunications
TC 210: Voice Telecommunications
TC 220: Wireless Communications
TC 330: Internship in Telecommunications
TC 403: Telecommunications Networks
TC 405: Telecommunications Management
TC 409: Current Issues in Telecommunications
TC 431: Satellite Telecommunications
TC 433: Optical Fiber Telecommunications
TC 491: Special Topics in Telecommunications
TC 501: Foundations of Communications
TC 529: Televisions Systems I
TC 531: Advanced Satellite Communications
TC 533: Advanced Optical Communications Systems
TC 585: Multimedia Technologies I