School of Engineering

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 102: Principles of Engineering
- Engr 196: Special Topics in Engineering Science
- Engr 197: Special Topics in Engineering Science
- Engr 201: Computer Aided Design for Engineering
- 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
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 431: Fundamentals of Systems Engineering
Engr 450: Product Design and Development
Engr 450: Product Design and Development
Engr 451: General Engineering Senior Design I
Engr 452: General Engineering Senior Design II
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 555: Field Testing & Insr. in Geotech. Engr.
Engr 558: Vibration Analysis
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: Aeronasticity
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 655: Operating Systems Design Concepts
- Engr 657: Timesharing Computer Systems
- Engr 659: Advanced Information Retrieval
- Engr 660: Software Engineering 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: Elasticstability
- 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 699: 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 722: Passive Microwave Circuits
• Engr 725: Antennas
• Engr 728: Adv Numerical Methods in Electromagnetic
• Engr 729: Special Topics in Electromagnetic Theory
• Engr 749: Special Topics in Soil Science
• Engr 779: 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

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• Manf 251: Manufacturing Processes  
• Manf 252: Product Realization Laboratory  
• Manf 253: Strategic Planning  
• Manf 254: Continuous Flow/Layout  
• Manf 255: Lean I: Standardized Work & Takt Time  
• Manf 350: Standardized Work/Takt Time  
• Manf 351: Manufacturing Product/Process Design  
• Manf 353: Accounting & Financial Mgmt for Manf  
• Manf 355: Lean II: Continuous Flow/Layout  
• Manf 396: Special Topics in Manufacturing  
• Manf 397: Special Topics in Manufacturing  
• Manf 450: Practical Problem Solving in Manf  
• Manf 451: Manf Design-Product Realization  
• Manf 452: Manf Design-Product Realization, II  
• Manf 455: Lean III: Practical Problem Solving  
• Manf 460: Introduction to Project Management  
• Manf 465: Applications in Ops & Supply Chain Mgmt  
• Manf 470: Principles of Lean Six Sigma  
• Manf 496: Special Topics in Manufacturing  
• Manf 497: Special Topics in Manufacturing

**Biomedical Engineering**

• BME 200: Introduction to Biomedical Engineering  
• BME 222: Biomaterials  
• BME 301: Bioinstrumentation  
• BME 305: Bioengineering Thermodynamics & Kinetics  
• BME 311: Biomechanics  
• BME 313: Physiology for Biomedical Engineering  
• BME 314: Biomedical Measurement  
• BME 315: Physiology for Biomedical Engineering II  
• BME 320: Bioseparations  
• BME 333: Biological Transport  
• BME 350: Immunengineering  
• BME 353: Biodevices Design & Development  
• BME 370: Intro to Bioinformatics & Biostatistics  
• BME 411: Tissue Mechanics  
• BME 413: Biomedical Signal Processing  
• BME 444: Biomedical Controls  
• BME 461: Biomedical Engineering Senior Design I  
• BME 462: Biomedical Engineering Senior Design II  
• BME 501: Computational and Systems Biomedicine  
• BME 510: Drug and Gene Delivery  
• BME 511: Computational Biomechanics  
• BME 520: Biochemical Process Engineering  
• BME 522: Immunengineering  
• BME 523: Molecular and Cellular Biophysics  
• BME 524: Microscopy for Engineers  
• BME 600: Graduate Professional Development  
• BME 601: Biomedical Engineering Seminar

**Chemical Engineering**

• Ch E 101: Introduction to Chemical Engineering  
• Ch E 251: Programming for Chemical Engineering  
• Ch E 307: Chemical Process Principles I  
• Ch E 308: Chemical Process Principles II  
• Ch E 316: Chemical Engineering Fluid Mechanics  
• Ch E 317: Process Fluid Dynamics and Heat Transfer  
• Ch E 318: Chem Engineering Heat and Mass Transfer  
• Ch E 330: Chemical Eng. R & D Experience  
• Ch E 345: Engineering Economy
• Ch E 407: Chemical Engineering Projects I
• Ch E 408: Chemical Engineering Projects II
• Ch E 411: Chemical Engineering Seminar
• Ch E 412: Process Control and Safety
• Ch E 413: Chemical Process Safety
• Ch E 417: Separation Processes
• Ch E 421: Chemical Engineering Thermodynamics
• Ch E 423: Chemical Reactor Analysis and Design
• Ch E 431: CHE Mass and Energy Balance Lab
• Ch E 432: CHE Unit Operations Lab
• Ch E 433: CHE Design Lab
• 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: Immunengineering
• Ch E 523: Molecular and Cellular Biophysics
• Ch E 524: Microscopy for Engineers
• Ch E 528: Polymer Processing
• Ch E 536: 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 371: Intro to Environmental Engineering
• 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 435</td>
<td>Advanced Geotechnical Engineering</td>
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<tr>
<td>CE 452</td>
<td>Civil Engineering Analysis</td>
</tr>
<tr>
<td>CE 455</td>
<td>Civil Engineering Design I</td>
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<tr>
<td>CE 456</td>
<td>Civil Engineering Design II</td>
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<tr>
<td>CE 471</td>
<td>Environmental Engineering I</td>
</tr>
<tr>
<td>CE 472</td>
<td>Water Resources Engineering</td>
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<tr>
<td>CE 481</td>
<td>Transportation Engineering I</td>
</tr>
<tr>
<td>CE 495</td>
<td>Geospatial Analysis for Engr &amp; Vis Apps</td>
</tr>
<tr>
<td>CE 497</td>
<td>Civil Engineering Projects</td>
</tr>
<tr>
<td>CE 500</td>
<td>Geographic Information Systems Engr Sci</td>
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<tr>
<td>CE 511</td>
<td>Structural Dynamics</td>
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<td>CE 513</td>
<td>Advanced Steel Design</td>
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<tr>
<td>CE 514</td>
<td>Pre-Stressed Concrete Design</td>
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<tr>
<td>CE 516</td>
<td>Bridge Engineering</td>
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<tr>
<td>CE 521</td>
<td>Advanced Mechanics of Materials</td>
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<tr>
<td>CE 531</td>
<td>Soil Mechanics II</td>
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<tr>
<td>CE 536</td>
<td>Designing with Geosynthetics</td>
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<tr>
<td>CE 541</td>
<td>Flow in Open Channels</td>
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<tr>
<td>CE 542</td>
<td>Flow in Porous Media</td>
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<tr>
<td>CE 543</td>
<td>Sediment Transport</td>
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<tr>
<td>CE 561</td>
<td>Civil Engineering Systems</td>
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<tr>
<td>CE 570</td>
<td>Infrastructure Management</td>
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<tr>
<td>CE 572</td>
<td>Stormwater Engineering and Management</td>
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<tr>
<td>CE 574</td>
<td>Wastewater Engineering</td>
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<tr>
<td>CE 575</td>
<td>Drinking Water Engineering</td>
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<tr>
<td>CE 578</td>
<td>Agricultural Conservation for Eng &amp; Sci</td>
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<tr>
<td>CE 581</td>
<td>Transportation Engineering II</td>
</tr>
<tr>
<td>CE 585</td>
<td>Highway Pavements</td>
</tr>
<tr>
<td>CE 590</td>
<td>Airport Planning and Design</td>
</tr>
<tr>
<td>Engr 541</td>
<td>Foundations of Nano Engineering and Sci</td>
</tr>
<tr>
<td>Engr 547</td>
<td>Characterization Methods for Nanomaterials</td>
</tr>
</tbody>
</table>

**Computer & Information Science**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CIS 111</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>CIS 112</td>
<td>Computer Science II</td>
</tr>
<tr>
<td>CIS 113</td>
<td>Honors Computer Science I</td>
</tr>
<tr>
<td>CIS 211</td>
<td>Computer Science III</td>
</tr>
<tr>
<td>CIS 251</td>
<td>Programming for Engineering and Sciences</td>
</tr>
<tr>
<td>CIS 333</td>
<td>Digital Design and 3D Printing</td>
</tr>
<tr>
<td>CIS 427</td>
<td>Network Security</td>
</tr>
<tr>
<td>CIS 447</td>
<td>Immersive Media</td>
</tr>
<tr>
<td>Csci 103</td>
<td>Survey of Computing</td>
</tr>
<tr>
<td>Csci 111</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>Csci 112</td>
<td>Computer Science II</td>
</tr>
<tr>
<td>Csci 113</td>
<td>Honors Computer Science I</td>
</tr>
<tr>
<td>Csci 191</td>
<td>Office Applications</td>
</tr>
<tr>
<td>Csci 192</td>
<td>Computing Applications</td>
</tr>
<tr>
<td>Csci 193</td>
<td>Personal Computer Systems</td>
</tr>
<tr>
<td>Csci 203</td>
<td>Introduction to Computational Media</td>
</tr>
<tr>
<td>Csci 211</td>
<td>Computer Science III</td>
</tr>
<tr>
<td>Csci 223</td>
<td>Computer Org. &amp; Assembly Language</td>
</tr>
<tr>
<td>Csci 251</td>
<td>Programming for Engineering and Sciences</td>
</tr>
<tr>
<td>Csci 256</td>
<td>Programming in Python</td>
</tr>
<tr>
<td>Csci 259</td>
<td>Programming in C++</td>
</tr>
<tr>
<td>Csci 300</td>
<td>Social Responsibility in Comp. Science</td>
</tr>
<tr>
<td>Csci 305</td>
<td>Software for Global Use</td>
</tr>
<tr>
<td>Csci 311</td>
<td>Models of Computation</td>
</tr>
<tr>
<td>Csci 323</td>
<td>Systems of Programming</td>
</tr>
<tr>
<td>Csci 325</td>
<td>Foundations of Computer Security</td>
</tr>
<tr>
<td>Csci 333</td>
<td>Digital Design and 3D Printing</td>
</tr>
</tbody>
</table>

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https://catalog.olemiss.edu/2024/spring/undergraduate/engineering/courses
- 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
- El E 431: Theory of Control Systems
- El E 432: Robotics Laboratory
- El E 433: High Frequency and Microwave 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 451: Electrical Energy Conversion
- El E 453: Solid State Devices
- El E 461: Sr. Design in Electrical Engineering I
- El E 462: Sr. Design in Electrical Engineering II
- El E 481: Fund. Low Power Dig. VLSI Design
- El E 482: Digital CMOS VLSI Design
- El E 485: Microprocessor Systems Engineering
- El E 486: Microprocessor Systems Engr Lab
- El E 487: Digital Signal Processing Laboratory
- El E 521: Electrical Engineering Projects I
- El E 522: Electrical Engineering Projects II
- El E 523: Microwave Engineering
- El E 525: Introduction to Antennas
- El E 533: Electronic Properties of Materials
- El E 534: Wireless Mobile Communications
- El E 535: Digital Communications
- El E 536: Introduction to Quantum Computing
- El E 561: Microwave Circuit Design
- El E 586: Digital Signal Processing

### Geology & Geological Engineering
- G E 234: Intro. to Geol. Engr. Field Methods
- G E 301: Geological Eng. Design Field Camp 1
- G E 305: Geomechanics
- G E 401: Geological Eng. Design Field Camp 2
- G E 405: Engineering Geophysics
• GE 415: Petroleum Geology
• GE 420: Subsurface Site Characterization
• GE 421: Geological Engineering Design
• GE 430: Geological Field Studies I
• GE 436: Field Camp GE Design
• GE 437: Geological Engineering Design Field Camp
• GE 450: Hydrogeology
• GE 470: Intro. to Geographic Information System
• GE 490: Directed Studies and Projects
• GE 503: Environmental Geochemistry
• GE 507: Regional Geological Engineering
• GE 510: Remote Sensing
• GE 511: Spatial Analysis
• GE 513: Economic Geology
• GE 525: Engineering Seismology
• GE 530: Advanced Geomechanics
• GE 540: Rock Mechanics
• GE 555: Introduction to Mining Engineering
• GE 577: Geophysics I
• GE 591: Special Topics
• GE 635: Advanced Rock Mechanics
• Geol 101: Physical Geology
• Geol 102: Historical Geology
• Geol 103: Earth Dynamics
• Geol 104: Environmental Geology - Hazards
• Geol 105: Environmental Geology - Resources
• Geol 106: Earth History
• 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 610: Earth Science Projects
• Geol 614: 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

https://catalog.olemiss.edu/2024/spring/undergraduate/engineering/courses
• Geol 649: Pedology
• Geol 690: Scientific Writing
• Geol 697: Thesis

**Mechanical Engineering**
• Engr 546: Micro/Nanoscale Fabrication
• Engr 554: Computational Heat Transfer
• 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 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 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
• 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