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 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

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https://catalog.olemiss.edu/2024/spring/undergraduate/engineering/courses
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https://catalog.olemiss.edu/2024/spring/undergraduate/engineering/courses

March 24, 2024 at 3:12:30 am CDT
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: Time-Sharing 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: Elastic Stability
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

https://catalog.olemiss.edu/2024/spring/undergraduate/engineering/courses
- 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 725: Antennas
- 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
- G E 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
• 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: Immunoeengineering
• 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: Immunoeengineering
• 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
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 536: Designing with Geosynthetics
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 578: Agricultural Conservation for Eng & Sci
C E 581: Transportation Engineering II
C E 585: Highway Pavements
C E 590: Airport Planning and Design
Engr 541: Foundations of Nano Engineering and Sci
Engr 547: Characterization Methods for Nanomaterials

Computer & Information Science
CIS 111: Computer Science I
CIS 112: Computer Science II
CIS 113: Honors Computer Science I
CIS 211: Computer Science III
CIS 251: Programming for Engineering and Sciences
CIS 333: Digital Design and 3D Printing
CIS 427: Network Security
CIS 447: Immersive Media
Csci 103: Survey of Computing
Csci 111: Computer Science I
Csci 112: Computer Science II
Csci 113: Honors Computer Science I
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 3D 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  

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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 381: Design and Design Tools in ECE
- EI E 100: Introduction to Electrical Engineering
- EI E 235: Principles of Digital Systems
- EI E 236: Digital Systems Laboratory I
- EI E 237: Electrical Engineering Tools and Toys
- EI E 322: Electric Circuit II
- EI E 331: Signals and 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 357: Electrical Engineering Problems I
- 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: Probability and Random Signals
- 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 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 451: Electrical Energy Conversion
- 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
- EI E 522: Electrical Engineering Projects II
- EI E 523: Microwave Engineering
- EI E 525: Introduction to Antennas
- EI E 533: Electronic Properties of Materials
- EI E 534: Wireless Mobile Communications
- EI E 535: Digital Communications
- EI E 536: Introduction to Quantum Computing
- EI E 561: Microwave Circuit Design
- EI E 586: Digital Signal Processing

Geology & Geological Engineering

- GE 234: Intro. to Geol. Engr. Field Methods
- GE 301: Geological Engr. Design Field Camp 1
- GE 305: Geomechanics
- GE 401: Geological Engr. Design Field Camp 2
- GE 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
- 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 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