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 583: 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: Aerodynamics
Engr 613: Exp Method in Aerodynamics/Aeroacoustics
Engr 614: Geometrics
Engr 615: Analytical Petroleum Geology
Engr 616: Isotope Hydrogeology
Engr 617: Continuum Mechanics
Engr 620: Advanced Remote Sensing
Engr 622: Advanced Electromagnetic Theory

http://catalog.olemiss.edu/2019/spring/undergraduate/engineering/courses
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: 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 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 726: Adv Numerical Methods in Electromagnetic
Engr 727: 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

http://catalog.olemiss.edu/2019/spring/undergraduate/engineering/courses
• 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 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

Chemical Engineering
• Ch E 101: Introduction to Chemical Engineering
• Ch E 103: Introduction to Chemical Engineering I
• Ch E 104: Introduction to Chemical Engineering II
• Ch E 251: Programming for Chemical Engineering
• Ch E 307: Chemical Process Principles I
• Ch E 308: Chemical Process Principles II
• Ch E 309: Intro to Chemical Engineering Design
• Ch E 313: Modeling and Simulation I
• Ch E 314: Modeling and Simulation II
• Ch E 317: Process Fluid Dynamics and Heat 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 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 445: Chemical Engineering Lab I
• Ch E 446: Chemical Engineering Lab II
• Ch E 451: Plant Design I
• Ch E 452: Plant Design II
• Ch E 460: Product Design I:Development, Evaluation
• Ch E 461: Product Design II: Product Realization
• Ch E 511: Process Dynamics and Control
• Ch E 513: Special Topics in Chemical Engineering
• Ch E 515: Research Seminar
• Ch E 520: Biochemical Engineering
• Ch E 530: Coal Utilization and Pollutants Control
• Ch E 541: Appl of Chemical Instrumentation I
• Ch E 542: Appl of Chemical Instrumentation II
• Ch E 543: Introduction to Polymer Science
• Ch E 545: Colloid and Surface Science
• Ch E 547: Surfactant Science and Applications
• Ch E 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 Phenomena
Civil Engineering
- C E 101: Introduction to Civil Engineering I
- C E 102: Introduction to Civil Engineering II
- C E 205: Civil Engineering Laboratory I
- C E 207: Surveying
- C E 208: Civil Engineering Graphics I
- C E 305: Civil Engineering Laboratory II
- C E 310: Introduction to Structural Mechanics
- C E 311: Structural Analysis
- C E 315: Civil Engineering Materials
- C E 325: Intermediate Dynamics
- C E 401: Civil Engineering Fundamentals
- C E 405: Civil Engineering Laboratory III
- C E 412: Design of Concrete Structures
- C E 413: Steel Design
- C E 414: Advanced Concrete Design
- C E 416: Bridge Engineering
- C E 421: Matrix Analysis of Structures
- C E 431: Soil Mechanics I
- C E 433: Foundation Engineering
- C E 435: Advanced Geotechnical Engineering
- C E 452: Civil Engineering Analysis
- C E 455: Civil Engineering Design I
- C E 456: Civil Engineering Design II
- C E 471: Environmental Engineering I
- C E 472: Water Resources Engineering
- C E 481: Transportation Engineering I
- C E 495: Geospatial Analysis for Engr & Vis Apps
- C E 497: Civil Engineering Projects
- C E 511: Structural Dynamics
- C E 514: Pre-Stressed Concrete Design
- C E 521: Advanced Mechanics of Materials
- C E 531: Soil Mechanics II
- C E 541: Flow in Open Channels
- C E 542: Flow in Porous Media
- C E 543: Sediment Transport
- C E 551: Civil Engineering Systems
- C E 570: Infrastructure Management
- C E 572: Stormwater Engineering and Management
- C E 581: Transportation Engineering II
- C E 585: Highway Pavements
- C E 590: Airport Planning and Design

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

Electrical Engineering
BME 200: Introduction to Biomedical Engineering
BME 301: Bioinstrumentation
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.
EL E 533: Electronic Properties of Materials
EL E 534: Wireless Mobile Communications
EL E 535: Digital Communications
EL E 561: Microwave Circuit Design
EL E 586: Digital Signal Processing

Geology & Geological Engineering
GE 234: Intro. to Geol. Engr. Field Methods
GE 301: Geological Eng. Design Field Camp 1
GE 305: Geomechanics
GE 401: Geological Eng. 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 431: Geological Field Studies II
GE 436: Field Camp GE Design
GE 437: Geological Engineering Design Field Camp
GE 450: Hydrogeology
GE 460: Fundamentals of Waste Management
GE 470: Intro. to Geographic Information System
GE 490: Directed Studies and Projects
GE 500: Introduction to Geochemistry I
GE 502: Construction Geological Engineering
GE 503: Environmental Geochemistry
GE 504: Envi. Geochemistry Lab & Field Methods
GE 506: Geomechanics for Geologists
GE 507: Regional Geological Engineering
GE 510: Remote Sensing
GE 511: Spatial Analysis
GE 513: Economic Geology
GE 520: Geol. & G.E. Computer Applications
GE 525: Engineering Seismology
GE 530: Advanced Geomechanics
GE 540: Rock Mechanics
GE 560: Waste Disposal I
GE 561: Design of Waste Repositories
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 406: Petrology
- Geol 410: Coastal and Reef Dynamics
- Geol 420: Optical Mineralogy
- Geol 500: Intro. to Geographic Information Systems
- Geol 505: Hydrogeology
- Geol 506: Advanced Petrology
- Geol 519: Directed Studies
- Geol 517: Global Tectonics
- Geol 518: Quantitative Methods in Geo. & Geo Eng
- Geol 520: Advanced Igneous and Metamorphic Petrology
- Geol 530: Geology Field Studies
- Geol 535: Geochemistry
- Geol 550: Oceanography and Marine Geology
- Geol 555: Geology and Geol. Engineering Seminar
- Geol 603: Earth Sciences I
- Geol 604: Earth Sciences II
- Geol 609: Earth Science Projects
- Geol 610: Earth Science Projects
- Geol 611: Advanced Studies in Geology
- Geol 613: Instrumental and Analytical Procedure
- Geol 614: Advanced Geographic Information Systems
- Geol 615: Geostatistics
- Geol 630: Coastal Plain Geology
- Geol 641: Clay Petrology
- Geol 642: X-Ray Diff Analysis Inorg Crys Materials
- Geol 643: Advanced Geomorphology
- Geol 644: Advanced Paleontology
- Geol 645: Advanced Sedimentation
- Geol 646: Advanced Stratigraphy
- Geol 647: Sedimentary Petrology
- Geol 648: Metamorphic Petrology
- Geol 690: Scientific Writing Seminar
- Geol 697: Thesis

Mechanical Engineering
- ME 101: Introduction to Mechanical Engineering
- ME 201: Engineering Graphics Fundamentals
- ME 324: Introduction to Mechanical Design
- ME 325: Intermediate Dynamics
- ME 399: Thermodynamics II
- ME 401: Thermo-fluid Dynamics
- ME 402: Elements of Propulsion
- ME 404: Applied Fluid Mechanics
- ME 406: Alternative Energy Systems
- ME 416: Structures and Dynamics Laboratory
- ME 417: Projects
- ME 418: Projects
- ME 419: Energy and Fluids Laboratory
- ME 420: Experimental Mechanical Engineering II
- ME 421: Structural Analysis
- ME 422: Structural Design I
- ME 426: Kinematics: Analysis and Synthesis
- ME 427: Kinematic Analysis and Synthesis
- ME 428: Dynamics of Machinery
- 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: Expn 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