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 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 314: Materials Science Laboratory
- 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

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http://catalog.olemiss.edu/2018/spring/undergraduate/engineering/courses

Monday, January 15, 2018 at 10:49:57 am CST
Engr 396: Special Topics in Engineering Science
Engr 397: Special Topics in Engineering Science
Engr 400: Leadership & Professionalism in Engineering
Engr 401: Environmental Engineering Lab II
Engr 402: Engineering Fundamentals
Engr 407: Legal and Moral Aspects of Engineering
Engr 410: Engineering Analysis II
Engr 415: Engineering Acoustics I
Engr 420: Engineering Analysis III
Engr 422: Engineering Analysis III
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 519: 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 581: Applications in Geophysics
Engr 582: Interdisciplinary Field Projects
Engr 588: 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: Aeroelasticity
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
- Engr 624: Active Microwave Circuits
- 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 655: 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: Viscoplasticity
- 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
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 705: 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 723: Antennas
Engr 727: Special Numerical Methods in Electromagnetic
Engr 729: Special Topics in Electromagnetic Theory
Engr 731: Special Topics in Solid Science
Engr 732: Special Topics in Solid Mechanics
Engr 737: Dissertation
Engs 501: Geospatial Primer
Engs 504: Remote Sensing Fundamentals
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
Manf 150: Intro to Engineering / Manufacturing
Manf 250: Graphics/Solid Modeling
Manf 251: Manufacturing Processes
Manf 252: Product Realization Laboratory

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• C E 325: Intermediate Dynamics
• C E 401: Civil Engineering Fundamentals
• C E 405: Civil Engineering Laboratory III
• C E 412: Design of Concrete Structures
• C E 413: Steel Design
• C E 414: Advanced Concrete Design
• C E 417: Construction Engineering and Management
• C E 421: Matrix Analysis of Structures
• C E 431: Soil Mechanics I
• C E 433: Foundation Engineering
• C E 435: Advanced Geotechnical Engineering
• C E 452: Civil Engineering Analysis
• C E 455: Civil Engineering Design I
• C E 456: Civil Engineering Design II
• C E 471: Environmental Engineering I
• C E 472: Water Resources Engineering
• C E 481: Transportation Engineering I
• C E 495: Geospatial Analysis for Engr & Vis Apps
• C E 497: Civil Engineering Projects
• C E 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 561: 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 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 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 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 595: Graduate Computer Science Internship  
Csci 632: Machine Learning  
Csci 658: Software Language Engineering  
Csci 663: Software Families  

**ELECTRICAL ENGINEERING**  
BME 200: Introduction to Biomedical Engineering  
BME 322: Biomaterials  
BME 333: Biological Transport  
BME 444: Biomedical Controls  
BME 461: Biomedical Engineering Senior Design I  
BME 462: Biomedical Engineering Senior Design II  
El E 100: Introduction to Electrical Engineering  
El E 101: Survey of the Electrotechnology  
El E 235: Principles of Digital Systems  
El E 236: Digital Systems Laboratory I  
El E 301: Applied Electronics  
El E 302: Applied Communication Systems  
El E 313: Physiology for Biomedical Engineering  
El E 314: Biomedical Measurement  
El E 331: Linear Systems  
El 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
• 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 561: Microwave Circuit Design
• EI 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 402: Professionalism in Geological Engr.
• GE 405: Engineering Geophysics
• GE 413: Prob. & Stat. Analyses in Eng. Design
• 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, G.E. 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 211: 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 515: Directed Studies
- Geol 518: Quantitative Methods in Geo. & Geo Eng
- Geol 520: Advanced Igneous and Metamorphic Petrolo
- 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**

- 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 399: Thermodynamics II
- M E 401: Thermo-fluid Dynamics
- M E 402: Elements of Propulsion
- M E 404: Applied Fluid Mechanics
- M E 416: Structures and Dynamics Laboratory
- M E 417: Projects
- M E 418: Projects
- M E 419: Energy and Fluids Laboratory
- M E 420: Experimental Mechanical Engineering II
- M E 421: Structural Analysis
- M E 422: Structural Design I
- M E 426: Kinematics: Analysis and Synthesis
- M E 427: Kinematic 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 526: Experimental Methods
- M E 527: Materials Processing
- M E 528: Polymer Processing
- M E 529: Aerodynamics
- M E 530: Physical Metallurgy
- M E 531: Mechanical Behavior of Engr Materials
- M E 532: Glass and Ceramics
- 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 538: Expf Character of Polymer Composites
- M E 540: Failure Analysis
- M E 541: Theory and Use of CAD and Solid Modeling
- M E 543: Linear Systems and Controls
- M E 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: Television Systems I
- TC 531: Advanced Satellite Communications
- TC 533: Advanced Optical Communications Systems
- TC 585: Multimedia Technologies I