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 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 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 361: Electric Circuit Theory
- 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 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: 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
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<td>Optimization</td>
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<td>Engr 640</td>
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<td>X-Ray Diffraction Analysis</td>
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<td>Pavement Management Systems</td>
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<td>Engr 662</td>
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<td>Advanced Rate and Equilibrium Processes</td>
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<td>Engr 667</td>
<td>Mass Transfer I</td>
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<td>Engr 669</td>
<td>Chemical Reaction and Reactor Analysis I</td>
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<td>Engr 686</td>
<td>Multimedia Technologies II</td>
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<td>Engr 687</td>
<td>Special Functions for Applications</td>
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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/2020/spring/undergraduate/engineering/courses
- 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 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
- Enos 501: Geospatial Primer
- Enos 504: Remote Sensing Fundamentals
- Enos 523: Sensors and Platforms
- Enos 603: Analysis of Algorithms
- Enos 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
- Enos 621: Orbital Mechanics
- Enos 624: Introduction to Digital Image Processing
- Enos 626: Community Growth
- Enos 627: Applied Probability Modeling
- Enos 633: Microwave Filters
- Enos 671: Digital Topographic Mapping
- Enos 672: Remote Sensing and the Environment
- Enos 673: Advanced Digital Image Processing
- Enos 674: Geospatial Data Synthesis and Modeling
- Enos 675: Microwave Data
- Enos 681: Advanced Sensor Systems Data Collection
- Enos 682: Remote Sensing to Ecological Modeling
- Enos 683: Land Use and Land Cover Applications
- Enos 684: Agricultural Applications Remote Sensing
- Enos 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
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 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 313: Physiology for Biomedical Engineering
BME 314: Biomedical Measurement
BME 320: Bioseparations
BME 333: Biological Transport
BME 350: Immunoengineering
BME 413: Biomedical Signal Processing
BME 444: Biomedical Controls
BME 461: Biomedical Engineering Senior Design I
BME 462: Biomedical Engineering Senior Design II

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 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

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### Chemical Engineering
- 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 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 530: Coal Utilization and Pollutants Control
- Ch E 535: Experimental Methods in Engineering
- Ch E 540: Coating Materials Process & Applications
- 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 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 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 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
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
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 237: Electrical Engineering Tools and Toys
El E 301: Applied Electronics
El E 302: Applied Communication Systems
El E 331: Linear 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 354: PC-Based Instrumentation Laboratory
El E 357: Electrical Engineering Problems I
El E 358: Electrical Engineering Problems II
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: Random Signals
El E 414: Biomedical Electronics
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 434: Fiber Optics Laboratory
El E 436: Systems 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 449: Analog Communications Laboratory
El E 450: Digital Communications Laboratory
El E 451: Electrical Energy Conversion
El E 452: Electric Power Transformer Laboratory

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<td>Solid State Devices</td>
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<td>El E 461</td>
<td>Sr. Design in Electrical Engineering I</td>
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<td>El E 462</td>
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<td>Electronic Properties of Materials</td>
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**Geology & Geological Engineering**

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<td>Geological Eng. Design Field Camp 1</td>
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<td>Ge E 305</td>
<td>Geomechanics</td>
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<td>Geological Eng. Design Field Camp 2</td>
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<td>Professionalism in Geological Engr.</td>
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<td>Subsurface Site Characterization</td>
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<td>Geological Field Studies I</td>
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<td>Geological Field Studies II</td>
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<td>Earth Dynamics</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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• 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 510: Directed Studies
• Geol 517: Global Tectonics
• 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 406: Alternative Energy Systems
• M E 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 439: 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: Exptl 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