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 102: Principles of 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 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

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https://catalog.olemiss.edu/2020/spring/undergraduate/engineering/courses
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: 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 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 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 655: 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: Viscoplasticity  
Engr 673: Plasticity  
Engr 674: Fracture Mechanics  
Engr 677: Plates and Shells  
Engr 678: Elasticity  
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 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 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

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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: Immunoenengineering
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
- ChE 433: ChE Design Lab
- ChE 445: Chemical Engineering Lab I
- ChE 446: Chemical Engineering Lab II
- ChE 449: Process Design
- ChE 450: Process Optimization
- ChE 451: Plant Design I
- ChE 452: Plant Design II
- ChE 460: Product Design I; Development, Evaluation
- ChE 461: Product Design II; Product Realization
- ChE 470: Principles of Lean Six Sigma
- ChE 511: Process Dynamics and Control
- ChE 513: Special Topics in Chemical Engineering
- ChE 518: Research Seminar
- ChE 520: Biochemical Engineering
- ChE 530: Coal Utilization and Pollutants Control
- ChE 535: Experimental Methods in Engineering
- ChE 540: Coating Materials Process & Applications
- ChE 541: Appl of Chemical Instrumentation I
- ChE 542: Appl of Chemical Instrumentation II
- ChE 543: Introduction to Polymer Science
- ChE 545: Colloid and Surface Science
- ChE 547: Surfactant Science and Applications
- ChE 550: Membrane Science and Engineering
- ChE 560: Advanced Transport Phenomena I
- ChE 561: Advanced Transport Phenomena II
- ChE 593: Graduate Projects in Chemical Engr
- Engr 540: Environmental Organic Transport Phenomenon

Civil Engineering
- CE 101: Introduction to Civil Engineering I
- CE 102: Introduction to Civil Engineering II
- CE 205: Civil Engineering Laboratory I
- CE 207: Surveying
- CE 208: Civil Engineering Graphics I
- CE 305: Civil Engineering Laboratory II
- CE 310: Introduction to Structural Mechanics
- CE 311: Structural Analysis
- CE 315: Civil Engineering Materials
- CE 325: Intermediate Dynamics
- CE 401: Civil Engineering Fundamentals
- CE 405: Civil Engineering Laboratory III
- CE 412: Design of Concrete Structures
- CE 413: Steel Design
- CE 414: Advanced Concrete Design
- CE 416: Bridge Engineering
- CE 417: Construction Engineering and Management
- CE 421: Matrix Analysis of Structures
- CE 431: Soil Mechanics I
- CE 433: Foundation Engineering
- CE 435: Advanced Geotechnical Engineering
- CE 452: Civil Engineering Analysis
- CE 455: Civil Engineering Design I
- CE 456: Civil Engineering Design II
- CE 471: Environmental Engineering I
- CE 472: Water Resources Engineering
- CE 481: Transportation Engineering I
- CE 495: Geospatial Analysis for Engr & Vis Apps
- CE 497: Civil Engineering Projects
- CE 511: Structural Dynamics
- CE 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 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 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 426: System Security
- 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 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

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Wednesday, April 15, 2020 at 6:53:22 am CDT
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Wednesday, April 15, 2020 at 6:53:22 am CDT
| **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 |
| **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 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 402:** Professionalism in Geological Engr.
- **G E 405:** Engineering Geophysics
- **G E 413:** Prob. & Stat. Analyses in Eng. Design
- **G E 415:** Petroleum Geology
- **G E 420:** Subsurface Site Characterization
- **G E 421:** Geological Engineering Design
- **G E 430:** Geological Field Studies I
- **G E 431:** Geological Field Studies II
- **G E 436:** Field Camp G E Design
- **G E 437:** Geological Engineering Design Field Camp
- **G E 450:** Hydrogeology
- **G E 460:** Fundamentals of Waste Management
- **G E 470:** Intro. to Geographic Information System
- **G E 490:** Directed Studies and Projects
- **G E 500:** Introduction to Geochemistry I
- **G E 502:** Construction Geological Engineering
- **G E 503:** Environmental Geochemistry
- **G E 504:** Envi. Geochemistry Lab & Field Methods
- **G E 506:** Geomechanics for Geologists
- **G E 507:** Regional Geological Engineering
- **G E 510:** Remote Sensing
- **G E 511:** Spatial Analysis
- **G E 513:** Economic Geology
- **G E 520:** Geol. & G.E. Computer Applications
- **G E 525:** Engineering Seismology
- **G E 530:** Advanced Geomechanics
- **G E 540:** Rock Mechanics
- **G E 560:** Waste Disposal I
- **G E 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 229: 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 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 Crvs 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
• 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: Exprl 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