School of Engineering

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

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https://catalog.olemiss.edu/2020/spring/undergraduate/engineering/courses
• 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: Geometries
• 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 656: Operating Systems Design Concepts
Engr 657: Timesharing Computer Systems
Engr 659: Advanced Information Retrieval
Engr 660: Software Engineering 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 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 Control
Engr 719: Advanced Microwave Measurements
Engr 720: Advanced Turbulence
Engr 721: Advanced Electrodynamics
Engr 723: Passive Microwave Circuits
Engr 725: Antennas
Engr 728: Adv Numerical Methods in Electromagnetic
Engr 729: Special Topics in Electromagnetic Theory
Engr 748: 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 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
Ch E 445: Chemical Engineering Lab I
Ch E 446: Chemical Engineering Lab II
Ch E 449: Process Design
Ch E 450: Process Optimization
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
Ch E 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
CE 531: Soil Mechanics II
CE 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 571: 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 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
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
### Electrical Engineering Courses

- **EE 443**: Network Analysis and Synthesis  
- **EE 447**: Modulation, Noise, and Communications  
- **EE 449**: Analog Communications Laboratory  
- **EE 450**: Digital Communications Laboratory  
- **EE 451**: Electrical Energy Conversion  
- **EE 452**: Electric Power Transformer Laboratory  
- **EE 453**: Solid State Devices  
- **EE 461**: Sr. Design in Electrical Engineering I  
- **EE 462**: Sr. Design in Electrical Engineering II  
- **EE 481**: Fund. Low Power Dig. VLSI Design  
- **EE 482**: Digital CMOS VLSI Design  
- **EE 485**: Microprocessor Systems Engineering  
- **EE 486**: Microprocessor Systems Engr Lab  
- **EE 487**: Digital Signal Processing Laboratory  
- **EE 521**: Electrical Engineering Projects I  
- **EE 522**: Electrical Engineering Projects II  
- **EE 523**: Microwave Engineering  
- **EE 525**: Introduction to Antennas  
- **EE 533**: Electronic Properties of Materials  
- **EE 534**: Wireless Mobile Communications  
- **EE 535**: Digital Communications  
- **EE 561**: Microwave Circuit Design  
- **EE 586**: Digital Signal Processing  

### Geology & Geological Engineering Courses

- **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 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

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[https://catalog.olemiss.edu/2020/spring/undergraduate/engineering/courses](https://catalog.olemiss.edu/2020/spring/undergraduate/engineering/courses)
• 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 409: 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 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: Exp! 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

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