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 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 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 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
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>Engr 622</td>
<td>Advanced Electromagnetic Theory</td>
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<tr>
<td>Engr 624</td>
<td>Active Microwave Circuits</td>
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<tr>
<td>Engr 625</td>
<td>Adv. Topics in Computational Mechanics</td>
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<tr>
<td>Engr 626</td>
<td>Numerical Methods in Electromagnetics</td>
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<td>Engr 627</td>
<td>Ray Methods in Electromagnetics</td>
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<td>Engr 628</td>
<td>Televisions Systems II</td>
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<tr>
<td>Engr 630</td>
<td>Unit Process &amp; Oper in Env Eng I</td>
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<tr>
<td>Engr 631</td>
<td>Unit Process &amp; Oper in Env Eng II</td>
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<td>Engr 632</td>
<td>Sludge Treatment and Disposal</td>
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<td>Engr 633</td>
<td>Process Dynamics and Control I</td>
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<td>Engr 634</td>
<td>Treatment &amp; Disposal of Industrial Waste</td>
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<td>Engr 635</td>
<td>Optimization</td>
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<td>Engr 636</td>
<td>Groundwater Mechanics</td>
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<td>Engr 637</td>
<td>Groundwater Modeling</td>
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<td>Engr 638</td>
<td>Hazardous Waste Management</td>
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<td>Engr 639</td>
<td>Environmental Systems Engineering</td>
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<td>Engr 640</td>
<td>Stream and Estuarine Analysis</td>
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<td>Clay Petrology</td>
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<td>Engr 642</td>
<td>X-Ray Diffraction Analysis</td>
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<td>Engr 643</td>
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<td>Carbonate Petrology</td>
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<td>Engr 648</td>
<td>Numerical Modeling in Geoscience &amp; Engr</td>
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<td>Engr 649</td>
<td>Advanced Foundation Engineering</td>
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<td>Engr 650</td>
<td>Radar Remote Sensing</td>
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<td>Engr 652</td>
<td>Advanced Compiler Design</td>
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<td>Computer Structures</td>
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<td>Engr 654</td>
<td>Information Systems Principles</td>
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<td>Engr 655</td>
<td>Operating Systems Design Principles</td>
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<td>Operating Systems Design Concepts</td>
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<td>Timesharing Computer Systems</td>
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<td>Engr 659</td>
<td>Advanced Information Retrieval</td>
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<td>Engr 660</td>
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<td>Engr 661</td>
<td>Computer Networks II</td>
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<tr>
<td>Engr 662</td>
<td>Advanced Artificial Intelligence</td>
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<td>Engr 663</td>
<td>Advanced Rate and Equilibrium Processes</td>
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<td>Engr 664</td>
<td>Theory of Concurrent Programming</td>
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<td>Engr 665</td>
<td>Thermodynamics of Chemical Systems</td>
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<td>Fault Tolerant Computing</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 683</td>
<td>Advanced Physical Metallurgy</td>
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<td>Engr 684</td>
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<tr>
<td>Engr 685</td>
<td>Mechanics of Composite Materials II</td>
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<tr>
<td>Engr 686</td>
<td>Multimedia Technologies II</td>
</tr>
<tr>
<td>Engr 687</td>
<td>Special Functions for Applications</td>
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</table>
- 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 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
- Engrs 501: Geospatial Primer
- Engrs 504: Remote Sensing Fundamentals
- Engrs 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 250: 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 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: Sufactant Science and Applications
• Ch E 550: Membrane Science and Engineering
• Ch E 560: Advanced Transport Phenomena I
Civil Engineering
- Ch E 561: Advanced Transport Phenomena II
- Ch E 593: Graduate Projects in Chemical Engr
- Engr 540: Environmental Organic Transport Phenomena

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
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/fall/undergraduate/engineering/courses
- Csci 665: Wireless and Sensor Networks

**Electrical 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: Bio separations
- BME 333: Biological Transport
- BME 350: Immunotherapy
- BME 413: Biomedical Signal Processing
- BME 444: Biomedical Controls
- BME 461: Biomedical Engineering Senior Design I
- BME 462: Biomedical Engineering Senior Design II
- EIE 100: Introduction to Electrical Engineering
- EIE 101: Survey of the Electrotechnology
- EIE 235: Principles of Digital Systems
- EIE 236: Digital Systems Laboratory I
- EIE 237: Electrical Engineering Tools and Toys
- EIE 301: Applied Electronics
- EIE 302: Applied Communication Systems
- EIE 331: Linear Systems
- EIE 337: Digital Systems Laboratory II
- EIE 340: Electrical Engineering Analysis I
- EIE 341: Theory of Fields
- EIE 351: Electronics Circuits I
- EIE 352: Electronics Circuits II
- EIE 353: Electronics Laboratory
- EIE 354: PC-Based Instrumentation Laboratory
- EIE 357: Electrical Engineering Problems I
- EIE 358: Electrical Engineering Problems II
- EIE 367: Computer-Aided Design in Electrical Engr
- EIE 385: Advanced Digital Systems
- EIE 386: Advanced Digital Systems Laboratory
- EIE 391: Random Signals
- EIE 414: Biomedical Electronics
- EIE 415: Telecommunications Laboratory
- EIE 425: Local Area Networks
- EIE 431: Theory of Control Systems
- EIE 432: Robotics Laboratory
- EIE 433: High Frequency and Microwave Laboratory
- EIE 434: Fiber Optics Laboratory
- EIE 436: Systems Laboratory
- EIE 441: Electromagnetic Theory I
- EIE 442: Electromagnetic Theory II
- EIE 443: Network Analysis and Synthesis
- EIE 447: Modulation, Noise, and Communications
- EIE 449: Analog Communications Laboratory
- EIE 450: Digital Communications Laboratory
- EIE 451: Electrical Energy Conversion
- EIE 452: Electric Power Transformer Laboratory
- EIE 453: Solid State Devices
- EIE 461: Sr. Design in Electrical Engineering I
- EIE 462: Sr. Design in Electrical Engineering II
- EIE 481: Fund. Low Power Dig. VLSI Design
- EIE 482: Digital CMOS VLSI Design
- EIE 485: Microprocessor Systems Engineering
- EIE 486: Microprocessor Systems Engr Lab
- EIE 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 405: Engineering Geophysics
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
G E 577: Geophysics I
G E 591: Special Topics
G E 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 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
• 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