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 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 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 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 & Instr. 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 589: 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 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 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: Viscoelasticity
• 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 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 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
- 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: Immunotherapy
- 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch E 445</td>
<td>Chemical Engineering Lab I</td>
</tr>
<tr>
<td>Ch E 446</td>
<td>Chemical Engineering Lab II</td>
</tr>
<tr>
<td>Ch E 451</td>
<td>Plant Design I</td>
</tr>
<tr>
<td>Ch E 452</td>
<td>Plant Design II</td>
</tr>
<tr>
<td>Ch E 460</td>
<td>Product Design I: Development, Evaluation</td>
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<tr>
<td>Ch E 461</td>
<td>Product Design II: Product Realization</td>
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<tr>
<td>Ch E 470</td>
<td>Principles of Lean Six Sigma</td>
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<tr>
<td>Ch E 511</td>
<td>Process Dynamics and Control</td>
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<tr>
<td>Ch E 513</td>
<td>Special Topics in Chemical Engineering</td>
</tr>
<tr>
<td>Ch E 515</td>
<td>Research Seminar</td>
</tr>
<tr>
<td>Ch E 520</td>
<td>Biochemical Engineering</td>
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<tr>
<td>Ch E 530</td>
<td>Coal Utilization and Pollutants Control</td>
</tr>
<tr>
<td>Ch E 535</td>
<td>Experimental Methods in Engineering</td>
</tr>
<tr>
<td>Ch E 540</td>
<td>Coating Materials Process &amp; Applications</td>
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<tr>
<td>Ch E 541</td>
<td>App of Chemical Instrumentation I</td>
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<tr>
<td>Ch E 542</td>
<td>App of Chemical Instrumentation II</td>
</tr>
<tr>
<td>Ch E 543</td>
<td>Introduction to Polymer Science</td>
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<tr>
<td>Ch E 545</td>
<td>Colloid and Surface Science</td>
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<tr>
<td>Ch E 547</td>
<td>Surfactant Science and Applications</td>
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<td>Ch E 550</td>
<td>Membrane Science and Engineering</td>
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<tr>
<td>Ch E 560</td>
<td>Advanced Transport Phenomena I</td>
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<tr>
<td>Ch E 561</td>
<td>Advanced Transport Phenomena II</td>
</tr>
<tr>
<td>Ch E 593</td>
<td>Graduate Projects in Chemical Engr</td>
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<tr>
<td>Engr 540</td>
<td>Environmental Organic Transport Phenomena</td>
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**Civil Engineering**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>C E 101</td>
<td>Introduction to Civil Engineering I</td>
</tr>
<tr>
<td>C E 102</td>
<td>Introduction to Civil Engineering II</td>
</tr>
<tr>
<td>C E 205</td>
<td>Civil Engineering Laboratory I</td>
</tr>
<tr>
<td>C E 207</td>
<td>Surveying</td>
</tr>
<tr>
<td>C E 208</td>
<td>Civil Engineering Graphics I</td>
</tr>
<tr>
<td>C E 305</td>
<td>Civil Engineering Laboratory II</td>
</tr>
<tr>
<td>C E 310</td>
<td>Introduction to Structural Mechanics</td>
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<tr>
<td>C E 311</td>
<td>Structural Analysis</td>
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<td>C E 315</td>
<td>Civil Engineering Materials</td>
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<td>C E 325</td>
<td>Intermediate Dynamics</td>
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<td>C E 401</td>
<td>Civil Engineering Fundamentals</td>
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<td>C E 405</td>
<td>Civil Engineering Laboratory III</td>
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<tr>
<td>C E 412</td>
<td>Design of Concrete Structures</td>
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<td>C E 413</td>
<td>Steel Design</td>
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<td>C E 414</td>
<td>Advanced Concrete Design</td>
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<td>C E 416</td>
<td>Bridge Engineering</td>
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<td>C E 417</td>
<td>Construction Engineering and Management</td>
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<tr>
<td>C E 421</td>
<td>Matrix Analysis of Structures</td>
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<tr>
<td>C E 431</td>
<td>Soil Mechanics I</td>
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<tr>
<td>C E 433</td>
<td>Foundation Engineering</td>
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<td>C E 435</td>
<td>Advanced Geotechnical Engineering</td>
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<td>C E 452</td>
<td>Civil Engineering Analysis</td>
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<tr>
<td>C E 455</td>
<td>Civil Engineering Design I</td>
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<tr>
<td>C E 456</td>
<td>Civil Engineering Design II</td>
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<tr>
<td>C E 471</td>
<td>Environmental Engineering I</td>
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<tr>
<td>C E 472</td>
<td>Water Resources Engineering</td>
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<tr>
<td>C E 481</td>
<td>Transportation Engineering I</td>
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<tr>
<td>C E 495</td>
<td>Geospatial Analysis for Engr &amp; Vis Apps</td>
</tr>
<tr>
<td>C E 497</td>
<td>Civil Engineering Projects</td>
</tr>
<tr>
<td>C E 511</td>
<td>Structural Dynamics</td>
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<tr>
<td>C E 514</td>
<td>Pre-Stressed Concrete Design</td>
</tr>
<tr>
<td>C E 521</td>
<td>Advanced Mechanics of Materials</td>
</tr>
<tr>
<td>C E 531</td>
<td>Soil Mechanics II</td>
</tr>
<tr>
<td>C E 541</td>
<td>Flow in Open Channels</td>
</tr>
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</table>
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
### Computer Science Courses

- 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 Courses

- 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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- 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 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
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227 Brevard Hall, University, MS 38677  
http://www.engineering.olemiss.edu/  

- 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 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 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 439: 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: Exptl 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