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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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>Engr 396</td>
<td>Special Topics in Engineering Science</td>
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<td>Engr 397</td>
<td>Special Topics in Engineering Science</td>
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<tr>
<td>Engr 400</td>
<td>Leadership &amp; Professionalism in Engineer</td>
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<tr>
<td>Engr 401</td>
<td>Environmental Engineering Lab II</td>
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<td>Engr 402</td>
<td>Engineering Fundamentals</td>
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<td>Engr 407</td>
<td>Legal and Moral Aspects of Engineering</td>
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<td>Engr 410</td>
<td>Engineering Analysis II</td>
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<td>Engr 420</td>
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<td>Engr 450</td>
<td>Product Design and Development</td>
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<td>Engr 453</td>
<td>Prob and Stat Analyses in Eng Design</td>
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<td>Engr 501</td>
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<td>Engr 551</td>
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<td>Field Testing &amp; Instr. in Geotech. Engr</td>
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<td>Service Learning in Water Treatment</td>
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<td>Engr 573</td>
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<td>Engr 577</td>
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<td>Engr 593</td>
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<td>Engr 602</td>
<td>Lithostratigraphy</td>
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<td>Engr 604</td>
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<td>Convective Heat and Mass Transfer</td>
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<td>Engr 606</td>
<td>Numerical Heat Transfer and Fluid Flow</td>
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<td>Engr 607</td>
<td>Statistical Thermodynamics</td>
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<td>Engr 608</td>
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<td>Time Series Analysis</td>
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<td>Data Communications Protocols</td>
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<td>Engr 614</td>
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<td>Engr 620</td>
<td>Advanced Remote Sensing</td>
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<td>Engr 622</td>
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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: Operating Systems Design Concepts
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: 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 699: Special Topics in Engineering Science
Engr 702: Finite Element Analysis of Fluid Flows
Engr 706: Adv Waste Treat Proc in Sanitary Eng
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 726: Adv Numerical Methods in Electromagnetic
Engr 727: 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
E 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 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 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 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 560: Advanced Transport Phenomena I
• Ch E 561: Advanced Transport Phenomena II
• Ch E 593: Graduate Projects in Chemical Engr
• Engr 540: Environmental Organic Transport Phenomena

Civil Engineering
• C E 101: Introduction to Civil Engineering I
• C E 102: Introduction to Civil Engineering II
• C E 205: Civil Engineering Laboratory I
• C E 207: Surveying
• C E 208: Civil Engineering Graphics I
• C E 305: Civil Engineering Laboratory II
• C E 310: Introduction to Structural Mechanics
• C E 311: Structural Analysis
• C E 315: Civil Engineering Materials
• C E 325: Intermediate Dynamics
• C E 401: Civil Engineering Fundamentals
• C E 405: Civil Engineering Laboratory III
• C E 412: Design of Concrete Structures
• C E 413: Steel Design
• C E 414: Advanced Concrete Design
• C E 416: Bridge Engineering
• C E 417: Construction Engineering and Management
• C E 421: Matrix Analysis of Structures
• C E 431: Soil Mechanics I
• C E 433: Foundation Engineering
• C E 435: Advanced Geotechnical Engineering
• C E 452: Civil Engineering Analysis
• C E 455: Civil Engineering Design I
• C E 456: Civil Engineering Design II
• C E 471: Environmental Engineering I
• C E 472: Water Resources Engineering
• C E 491: Transportation Engineering I
• C E 495: Geospatial Analysis for Engr & Vis Apps
• C E 497: Civil Engineering Projects
• C E 511: Structural Dynamics
• C E 514: Pre-Stressed Concrete Design
• C E 521: Advanced Mechanics of Materials
• C E 531: Soil Mechanics II
• C E 541: Flow in Open Channels
• 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 333: Digital Design and 3-D Printing
• Csci 343: Fundamentals of Data Science
Csci 345: Information Storage and Retrieval
Csci 353: Introduction to Numerical Methods
Csci 354: Web Programming
Csci 356: Data Structures in Python
Csci 361: Introduction to Computer Networks
Csci 387: Software Design and Development
Csci 390: Special Topics in Programming
Csci 391: Computer Graphics
Csci 405: Computer Simulation
Csci 423: Introduction to Operating Systems
Csci 425: Code Generation and Optimization
Csci 427: Fundamentals of Computer Security
Csci 431: Robotics Programming
Csci 433: Algorithm and Data Structure Analysis
Csci 443: Advanced Data Science
Csci 444: Information Visualization
Csci 447: Immersive Media
Csci 450: Organization of Programming Languages
Csci 458: Mobile Application Development
Csci 475: Introduction to Database Systems
Csci 487: Senior Project
Csci 490: Special Topics
Csci 500: Fundamental Concepts in Computing
Csci 501: Fundamental Concepts in Systems
Csci 502: Fundamental Concepts in Algorithms
Csci 503: Fundamental Concepts in Languages
Csci 517: Natural Language Processing
Csci 520: Formal Theory of Computer Languages
Csci 521: Computer Systems Engineering
Csci 523: Operating Systems
Csci 524: Distributed Operating System Design
Csci 525: Compiler Construction
Csci 526: Parallel Computing
Csci 530: Computer Architecture and Design
Csci 531: Artificial Intelligence
Csci 533: Analysis of Algorithms
Csci 541: Expert Systems and Logic Programming
Csci 543: Data Mining
Csci 547: Digital Image Processing
Csci 550: Program Semantics and Derivation
Csci 551: Computer System Performance Analysis
Csci 554: Web Architecture and Programming
Csci 555: Functional Programming
Csci 556: Multiparadigm Programming
Csci 561: Computer Networks
Csci 562: Software Engineering I
Csci 575: Database Systems
Csci 581: Special Topics in Computer Science I
Csci 582: Special Topics in Computer Science II
Csci 632: Machine Learning
Csci 658: Software Language Engineering
Csci 663: Software Families
Csci 665: Wireless and Sensor Networks

Electrical Engineering
BME 200: Introduction to Biomedical Engineering
BME 301: Bioinstrumentation
BME 320: Bioseparations
BME 322: Biomaterials
BME 333: Biological Transport
• BME 350: Immunotherapy
• BME 444: Biomedical Controls
• BME 461: Biomedical Engineering Senior Design I
• BME 462: Biomedical Engineering Senior Design II
• 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 313: Physiology for Biomedical Engineering
• El E 314: Biomedical Measurement
• 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, 355: 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 413: Biomedical Signal Processing
• 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
• El E 453: Solid State Devices
• El E 461, 462: Sr. Design in Electrical Engineering
• 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 1
- G E 431: Geological Field Studies 11
- 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

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• 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
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Monday, February 18, 2019 at 6:39:35 am CST