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
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 655: Information Systems Principles
Engr 656: Operating Systems Design Concepts
Engr 657: Timesharing Computer Systems
Engr 658: 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: Elasticity
Engr 679: Wave Propagation
Engr 680: Advanced Acoustics
Engr 683: Advanced Physical Metallurgy
Engr 684: Advanced Mechanical Metallurgy
Engr 685: Mechanics of Composite Materials II
Engr 686: Multimedia Technologies II
Engr 687: Special Functions for Applications
- Engr 688: Current Issues in Telecommunications
- Engr 689: Control of Robotics Manipulators
- Engr 690: Finite Element Analysis II
- Engr 691: Special Topics in Engineering Science I
- Engr 692: Special Topics in Engineering Science II
- Engr 693: Research Topics in Engineering Science I
- Engr 694: Research Topics in Eng. Science II
- Engr 695: Seminar
- Engr 696: Seminar in Environmental Engineering
- Engr 697: Thesis
- Engr 699: Special Topics in Engineering Science
- Engr 702: Finite Element Analysis of Fluid Flows
- Engr 711: Turbulence
- Engr 712: Statistical Theory Turbulent Diffusion
- Engr 713: Hydrodynamic Stability
- Engr 714: Coastal Hydrodynamics
- Engr 715: Applied Hydro- and Aeromechanics I
- Engr 716: Applied Hydro- and Aeromechanics II
- Engr 717: Special Topics in Thermal Science
- Engr 718: Coding for Error Code
- Engr 719: Advanced Microwave Measurements
- Engr 720: Advanced Turbulence
- Engr 721: Advanced Electrodynamics
- Engr 723: Passive Microwave Circuits
- Engr 725: Antennas
- Engr 726: 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
- Enos 501: Geospatial Primer
- Enos 504: Remote Sensing Fundamentals
- Enos 523: Sensors and Platforms
- Enos 603: Analysis of Algorithms
- Enos 606: Computer Networks
- Enos 610: Telecommunication Network Engineering
- Enos 611: Geospatial Science Primer
- Enos 612: Remote Sensing Fundamentals
- Enos 613: Introduction to Remote Sensing Systems
- Enos 614: Remote Sensing and Digital Images
- Enos 620: Geospatial Information Technology
- Enos 621: Orbital Mechanics
- Enos 624: Introduction to Digital Image Processing
- Enos 626: Community Growth
- Enos 627: Applied Probability Modeling
- Enos 633: Microwave Filters
- Enos 671: Digital Topographic Mapping
- Enos 672: Remote Sensing and the Environment
- Enos 673: Advanced Digital Image Processing
- Enos 674: Geospatial Data Synthesis and Modeling
- Enos 675: Microwave Data
- Enos 681: Advanced Sensor Systems Data Collection
- Enos 682: Remote Sensing to Ecological Modeling
- Enos 683: Land Use and Land Cover Applications
- Enos 684: Agricultural Applications Remote Sensing
- Enos 685: Business Geographics
- GE 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

**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 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: 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
Engr 540: Environmental Organic Transport Phenomena

Civil Engineering
Ch E 101: Introduction to Civil Engineering I
Ch E 102: Introduction to Civil Engineering II
Ch E 205: Civil Engineering Laboratory I
Ch E 207: Surveying
Ch E 208: Civil Engineering Graphics I
Ch E 305: Civil Engineering Laboratory II
Ch E 310: Introduction to Structural Mechanics
Ch E 311: Structural Analysis
Ch E 315: Civil Engineering Materials
Ch E 325: Intermediate Dynamics
Ch E 401: Civil Engineering Fundamentals
Ch E 405: Civil Engineering Laboratory III
Ch E 412: Design of Concrete Structures
Ch E 413: Steel Design
Ch E 414: Advanced Concrete Design
Ch E 416: Bridge Engineering
Ch E 417: Construction Engineering and Management
Ch E 421: Matrix Analysis of Structures
Ch E 431: Soil Mechanics I
Ch E 433: Foundation Engineering
Ch E 435: Advanced Geotechnical Engineering
Ch E 452: Civil Engineering Analysis
Ch E 455: Civil Engineering Design I
Ch E 456: Civil Engineering Design II
Ch E 471: Environmental Engineering I
Ch E 472: Water Resources Engineering
Ch E 481: Transportation Engineering I
Ch E 495: Geospatial Analysis for Engr & Vis Apps
Ch E 497: Civil Engineering Projects
Ch E 511: Structural Dynamics
Ch E 514: Pre-Stressed Concrete Design
Ch E 521: Advanced Mechanics of Materials
Ch E 531: Soil Mechanics II
Ch E 541: Flow in Open Channels
Ch E 542: Flow in Porous Media
Ch E 543: Sediment Transport
Ch E 561: Civil Engineering Systems
Ch E 570: Infrastructure Management
Ch E 572: Stormwater Engineering and Management
Ch E 581: Transportation Engineering II
Ch E 585: Highway Pavements
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**
- EI E 100: Introduction to Electrical Engineering
- EI E 101: Survey of the Electrotechnology
- EI E 235: Principles of Digital Systems
- EI E 236: Digital Systems Laboratory I
- EI E 237: Electrical Engineering Tools and Toys
- EI E 301: Applied Electronics
- EI E 302: Applied Communication Systems
- EI E 311: Linear Systems
- EI E 337: Digital Systems Laboratory II
- EI E 340: Electrical Engineering Analysis I
- EI E 341: Theory of Fields
- EI E 351: Electronics Circuits I
- EI E 352: Electronics Circuits II
- EI E 353: Electronics Laboratory
- EI E 354: PC-Based Instrumentation Laboratory
- EI E 357: Electrical Engineering Problems I
- EI E 358: Electrical Engineering Problems II
- EI E 367: Computer-Aided Design in Electrical Engr
- EI E 385: Advanced Digital Systems
- EI E 386: Advanced Digital Systems Laboratory
- EI E 391: Random Signals
- EI E 414: Biomedical Electronics
- EI E 415: Telecommunications Laboratory
- EI E 425: Local Area Networks
- EI E 431: Theory of Control Systems
- EI E 432: Robotics Laboratory
- EI E 433: High Frequency and Microwave Laboratory
- EI E 434: Fiber Optics Laboratory
- EI E 436: Systems Laboratory
- EI E 441: Electromagnetic Theory I
- EI E 442: Electromagnetic Theory II
- EI E 443: Network Analysis and Synthesis
- EI E 447: Modulation, Noise, and Communications
- EI E 449: Analog Communications Laboratory
- EI E 450: Digital Communications Laboratory
- EI E 451: Electrical Energy Conversion
- EI E 452: Electric Power Transformer Laboratory
- EI E 453: Solid State Devices
- EI E 461: Sr. Design in Electrical Engineering I
- EI E 462: Sr. Design in Electrical Engineering II
- EI E 481: Fund. Low Power Dig. VLSI Design
- EI E 482: Digital CMOS VLSI Design
- EI E 485: Microprocessor Systems Engineering
- EI 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 Engr. Design Field Camp 1
G E 305: Geomechanics
G E 401: Geological Engr. 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 Petrolo
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
- **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**: Exprl 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