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 102: Principles of Engineering
• Engr 196: Special Topics in Engineering Science
• Engr 197: Special Topics in Engineering Science
• Engr 207: Graphics I
• Engr 296: Special Topics in Engineering Science
• Engr 297: Special Topics in Engineering Science
• Engr 307: Technical Communications
• Engr 309: Statics
• Engr 310: Engineering Analysis I
• Engr 310: Engineering Analysis I
• Engr 311: Intermediate Mechanics
• Engr 312: Mechanics of Materials
• 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 323: Fluid Mechanics
• Engr 330: Engineering Systems Analysis and Design
• 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 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 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 551: Engineering Thermodynamics
- Engr 553: Heat Transfer
- Engr 553: Heat Transfer
- Engr 555: Field Testing & Insr. in Geotech. Engr.
- Engr 556: Vibration Analysis
- Engr 558: Elements of Robotics
- Engr 559: Elements of Robotics
- Engr 571: Service Learning in Water Treatment
- 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: Lithostatigraphy
- 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: Aerelasticity
- 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 633: Process Dynamics and Control I
• Engr 635: Optimization
• Engr 636: Groundwater Mechanics
• Engr 637: Groundwater Modeling
• 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 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 655: Operating Systems Design Concepts
• Engr 657: Timesharing Computer Systems
• Engr 659: Advanced Information Retrieval
• Engr 660: Software Engineering II
• Engr 661: Computer Networks II
• Engr 661: Computer Networks II
• Engr 662: Advanced Artificial Intelligence
• Engr 663: Advanced Rate and Equilibrium Processes
• Engr 664: Theory of Concurrent Programming
• Engr 665: Thermodynamics of Chemical Systems
• Engr 666: Fault Tolerant Computing
• Engr 667: Mass Transfer I
• Engr 669: Chemical Reaction and Reactor Analysis I
• Engr 670: Chemical Reaction & Reactor Analysis II
• Engr 671: Elasticity
• Engr 672: Viscoelasticity
• Engr 673: Plasticity
• Engr 674: Fracture Mechanics
• Engr 677: Plates and Shells
• Engr 678: Elasticstability
• Engr 679: Wave Propagation
• Engr 680: Advanced Acoustics
• Engr 683: Advanced Physical Metallurgy
• Engr 684: Advanced Mechanical Metallurgy
• Engr 685: Mechanics of Composite Materials II
• Engr 686: Multimedia Technologies II
• Engr 687: Special Functions for Applications
• Engr 688: Current Issues in Telecommunications
• Engr 689: Control of Robotics Manipulators
• Engr 690: Finite Element Analysis II
• Engr 691: Special Topics in Engineering Science I
• Engr 692: Special Topics in Engineering Science II
• Engr 693: Research Topics in Engineering Science I
- Engr 694: Research Topics in Eng. Science II
- Engr 695: Seminar
- Engr 696: Seminar in Environmental Engineering
- Engr 697: Thesis
- Engr 698: Special Topics in Engineering Science
- Engr 702: Finite Element Analysis of Fluid Flows
- Engr 711: Turbulence
- Engr 712: Statistical Theory Turbulent Diffusion
- Engr 713: Hydrodynamic Stability
- Engr 714: Coastal Hydrodynamics
- Engr 715: Applied Hydro- and Aeromechanics I
- Engr 716: Applied Hydro- and Aeromechanics II
- Engr 717: Special Topics in Thermal Science
- Engr 718: Coding for Error 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 465: Applications in Ops & Supply Chain Mgmt
- 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 311: Biomechanics
- BME 313: Physiology for Biomedical Engineering
- BME 314: Biomedical Measurement
- BME 320: Bioseparations
- BME 333: Biological Transport
- BME 350: Immunoenengineering
- BME 370: Intro to Bioinformatics & Biostatistics
- BME 413: Biomedical Signal Processing
- BME 444: Biomedical Controls
- BME 461: Biomedical Engineering Senior Design I
- BME 462: Biomedical Engineering Senior Design II
- BME 501: Computational and Systems Biomedicine
- BME 510: Drug and Gene Delivery
- BME 520: Biochemical Process Engineering
- BME 522: Immunoenengineering
- BME 523: Molecular and Cellular Biophysics
- BME 524: Microscopy for Engineers

**Chemical Engineering**
- Ch E 101: Introduction to Chemical Engineering
- Ch E 251: Programming for Chemical Engineering
- Ch E 307: Chemical Process Principles I
- Ch E 308: Chemical Process Principles II
- Ch E 316: Chemical Engineering Fluid Mechanics
- Ch E 317: Process Fluid Dynamics and Heat Transfer
- Ch E 318: Chem Engineering Heat and Mass 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 452: CHE Unit Operations Lab
- Ch E 433: CHE Design Lab
• Ch E 449: Process Design
• Ch E 450: Process Optimization
• Ch E 451: Plant Design I
• Ch E 452: Product and Process Development
• Ch E 470: Principles of Lean Six Sigma
• Ch E 511: Process Dynamics and Control
• Ch E 513: Special Topics in Chemical Engineering
• Ch E 515: Research Seminar
• Ch E 520: Biochemical Engineering
• Ch E 521: Drug and Gene Delivery
• Ch E 522: Immunoengineering
• Ch E 523: Molecular and Cellular Biophysics
• Ch E 524: Microscopy for Engineers
• Ch E 528: Polymer Processing
• Ch E 535: Experimental Methods in Engineering
• Ch E 540: Coating Materials Process & Applications
• 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 Eng
• Engr 540: Environmental Organic Transport Phenomena
• Engr 542: Molecular Modeling of Nano Materials
• Engr 544: Synth and Fab of Nano Materials
• Engr 545: Polymer Nanocomposites

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 371: Intro to Environmental Engineering
• 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 417: Construction Engineering and Management
• C E 421: Matrix Analysis of Structures
• C E 431: Soil Mechanics I
• C E 433: Foundation Engineering
• C E 435: Advanced Geotechnical Engineering
• C E 452: Civil Engineering Analysis
• C E 455: Civil Engineering Design I
• C E 456: Civil Engineering Design II
• C E 471: Environmental Engineering I
• C E 472: Water Resources Engineering
• C E 481: Transportation Engineering I
• C E 495: Geospatial Analysis for Engr & Vis Apps
• C E 497: Civil Engineering Projects
• C E 500: Geographic Information Systems Engr Sci
• C E 511: Structural Dynamics
• C E 513: Advanced Steel Design
• C E 514: Pre-Stressed Concrete Design
• C E 516: Bridge Engineering
• C E 521: Advanced Mechanics of Materials
• C E 531: Soil Mechanics II
• C E 536: Designing with Geosynthetics
• 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 574: Wastewater Engineering
• C E 575: Drinking Water Engineering
• C E 578: Agricultural Conservation for Eng & Sci
• C E 581: Transportation Engineering II
• C E 585: Highway Pavements
• C E 590: Airport Planning and Design
• Engr 541: Foundations of Nano Engineering and Sci
• Engr 547: Characterization Methods for Nanomaterials

Computer & Information Science
• CIS 111: Computer Science I
• CIS 112: Computer Science II
• CIS 113: Honors Computer Science I
• CIS 211: Computer Science III
• CIS 251: Programming for Engineering and Sciences
• CIS 333: Digital Design and 3D Printing
• CIS 427: Network Security
• CIS 447: Immersive Media
• Csci 103: Survey of Computing
• Csci 111: Computer Science I
• Csci 112: Computer Science II
• Csci 113: Honors Computer Science I
• Csci 191: Office Applications
• Csci 192: Computing Applications
• Csci 193: Personal Computer Systems
• Csci 203: Introduction to Computational Media
• Csci 211: Computer Science III
• Csci 223: Computer Org. & Assembly Language
• Csci 251: Programming for Engineering and Sciences
• Csci 256: Programming in Python
• Csci 259: Programming in C++
• Csci 300: Social Responsibility in Comp. Science
• Csci 305: Software for Global Use
• Csci 311: Models of Computation
• Csci 323: Systems of Programming
• Csci 325: Foundations of Computer Security
• Csci 333: Digital Design and 3D Printing
• Csci 343: Fundamentals of Data Science
• Csci 345: Information Storage and Retrieval
• Csci 353: Introduction to Numerical Methods
• Csci 354: Web Programming
• Csci 356: Data Structures in Python
• Csci 361: Introduction to Computer Networks
• Csci 387: Software Design and Development
• Csci 390: Special Topics in Programming
• Csci 391: Computer Graphics
• Csci 405: Computer Simulation
• Csci 423: Introduction to Operating Systems
Csci 425: Code Generation and Optimization
Csci 426: System Security
Csci 427: Network Security
Csci 431: Robotics Programming
Csci 433: Algorithm and Data Structure Analysis
Csci 443: Advanced Data Science
Csci 444: Information Visualization
Csci 447: Immersive Media
Csci 450: Organization of Programming Languages
Csci 458: Mobile Application Development
Csci 475: Introduction to Database Systems
Csci 487: Senior Project
Csci 490: Special Topics
Csci 491: Special Topics in Computer Security
Csci 492: Special Topics in Data Science
Csci 500: Fundamental Concepts in Computing
Csci 501: Fundamental Concepts in Systems
Csci 502: Fundamental Concepts in Algorithms
Csci 503: Fundamental Concepts in Languages
Csci 517: Natural Language Processing
Csci 520: Formal Theory of Computer Languages
Csci 521: Computer Systems Engineering
Csci 523: Operating Systems
Csci 524: Distributed Operating System Design
Csci 525: Compiler Construction
Csci 526: Parallel Computing
Csci 530: Computer Architecture and Design
Csci 531: Artificial Intelligence
Csci 533: Analysis of Algorithms
Csci 541: Expert Systems and Logic Programming
Csci 543: Data Mining
Csci 547: Digital Image Processing
Csci 550: Program Semantics and Derivation
Csci 551: Computer System Performance Analysis
Csci 554: Web Architecture and Programming
Csci 555: Functional Programming
Csci 556: Multiformal Programming
Csci 557: GPU Computing
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 and Computer Engineering
Cp E 421: Embedded Systems Design
Cp E 431: Computer Architecture
Cp E 432: Testing of Computing Systems
Cp E 461: Senior Design in Computer Engineering I
Cp E 462: Senior Design in Computer Engineering II
ECE 361: Design and Design Tools in ECE
EI E 100: Introduction to Electrical Engineering
EI E 235: Principles of Digital Systems
EI E 236: Digital Systems Laboratory I
EI E 237: Electrical Engineering Tools and Toys
EI E 322: Electric Circuit II
El E 331: Signals and 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 357: Electrical Engineering Problems I
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: Probability and Random Signals
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 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 451: Electrical Energy Conversion
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 536: Introduction to Quantum Computing
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 436: Field Camp G E Design
G E 437: Geological Engineering Design Field Camp
G E 450: Hydrogeology
G E 470: Intro. to Geographic Information System
G E 490: Directed Studies and Projects
G E 503: Environmental Geochemistry
G E 507: Regional Geological Engineering
G E 510: Remote Sensing
### Geology Courses

- GE 511: Spatial Analysis
- GE 513: Economic Geology
- GE 525: Engineering Seismology
- GE 530: Advanced Geomechanics
- GE 540: Rock Mechanics
- GE 577: Geophysics I
- GE 591: Special Topics
- GE 635: Advanced Rock Mechanics
- Geol 101: Physical Geology
- Geol 102: Historical Geology
- Geol 103: Earth Dynamics
- Geol 104: Environmental Geology - Hazards
- Geol 105: Environmental Geology - Resources
- Geol 106: Earth History
- Geol 107: Introduction to Oceanography
- Geol 111: Physical Geology Laboratory
- Geol 112: Historical Geology Laboratory
- Geol 114: Environmental Geology-Hazards Laboratory
- Geol 115: Environmental Geology - Resources Lab
- Geol 120: Dinosaurs
- Geol 203: Earth Dynamics Laboratory Content
- Geol 221: Mineralogy
- Geol 222: Elementary Petrology
- Geol 225: Mineralogy & Elementary Petrology
- Geol 303: Structural and Tectonic Geology
- Geol 305: Geomorphology
- Geol 309: Invertebrate Paleontology
- Geol 314: Sedimentology and Stratigraphy
- Geol 410: Coastal and Reef Dynamics
- Geol 420: Optical Mineralogy
- Geol 500: Intro. to Geographic Information Systems
- Geol 505: Hydrogeology
- 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 614: Advanced Geographic Information Systems
- Geol 615: Geostatistics
- Geol 630: Coastal Plain Geology
- Geol 643: Advanced Geomorphology
- Geol 645: Advanced Sedimentation
- Geol 646: Advanced Stratigraphy
- Geol 647: Sedimentary Petrology
- Geol 648: Metamorphic Petrology
- Geol 649: Pedology
- Geol 690: Scientific Writing
- Geol 697: Thesis

### Mechanical Engineering Courses

- Engr 546: Micro/Nanoscale Fabrication
- Engr 554: Computational Heat Transfer
- ME 101: Introduction to Mechanical Engineering
- ME 201: Engineering Graphics Fundamentals
- ME 324: Introduction to Mechanical Design
- ME 325: Intermediate Dynamics
- ME 401: Thermo-fluid Dynamics
- ME 402: Elements of Propulsion
- ME 406: Alternative Energy Systems
- ME 416: Structures and Dynamics Laboratory
- M E 417: Projects
- M E 418: Projects
- M E 419: Energy and Fluids Laboratory
- M E 426: Kinematics: 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 527: Materials Processing
- M E 529: Aerodynamics
- M E 530: Physical Metallurgy
- M E 531: Mechanical Behavior of Eng Materials
- 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 541: Theory and Use of CAD and Solid Modeling
- M E 543: Linear Systems and Controls