Communication Required Courses
COMM 111 Public Speaking
ENGL 101 College English I
ENGL 102 College English II
Mathematics
MATH 242 Calculus I
MATH 243 Calculus II
MATH 344 Calculus III
MATH 555 Differential Equations I
Science
CHEM 211 General Chemistry I
PHYS 313 University Physics I
PHYS 314 University Physics II
PHYS 315 University Physics Laboratory I
Natural Science Elective
Engineering Core
AE 223 Statics
EE 282 Circuits I
IME 258 Manufacturing Methods and Materials I
ME 398 Thermodynamics I
Technical
AE 333 Mechanics of Materials
ME 335 Dynamics for Mechanical Engineers
IME 222 & L Engineering Graphics
ME 250 Materials Engineering
ME 251 Materials Engineering Laboratory
ME 325 Numerical Methods
ME 339 Design of Machinery
ME 439 Mechanical Engineering Design I
ME 502 Thermodynamics II
ME 521 Fluid Mechanics
ME 522 Heat Transfer
ME 533 Mechanical Engineering Laboratory
ME 633 Mechanical Engineering Systems Laboratory
ME 659 Mechanical Control Systems
ME 662 Senior Capstone Design
General Education
Fine Arts
Humanities
Behavioral and Social Sciences
Further Studies
ME Design Electives (One Course)
ME 541 Mechanical Engineering Design II
ME 637 Computer-Aided Engineering
ME 729 Computer-Aided Analysis of Mechanical Systems
ME 749 Applications of Finite Element Methods in Mechanical Engineering
Thermal Design Electives (One Course)
ME 544 Design of HVAC Systems
ME 731 Advanced Design of Heat Exchanger
ME 745 Deign of Thermal Systems

Mechanical Electives (Two Courses)
ME 469 Energy Conversion
ME 581 Introduction of Corrosion
ME 602 Engineering for the Environment
ME 650V Conduction of Heat Transfer
ME 650W Introduction to Micro-Electro-Mech Systems
ME 651 Biomaterials
ME 660 Polymer Material and Engineering
ME 665 Selection of Materials for Design/ Manufacturing
ME 667 Mechanical Properties of Materials
ME 670 Intro to Nano Technology
ME 672 & L Manufacturing of Composites
ME 673 Recovering of Engineering Materials
ME 680 & L Laser Materials Process and Design
ME 702 Energy and Sustainability
ME 709 Injury Biomechanics
ME 710 Six Sigma for Mechanical Engineers
ME 719 Basic Combustion Theory
ME 725 Mechanical Vibrations and Acoustics
ME 728 Advanced Electronic Materials
ME 737 Robotics and Control
ME 739 Advanced Machine Design
ME 747 Microcomputer Based Mechanical Systems
ME 750AE Computer Modeling for Fluid Flow & Heat Transfer
ME750AF Autonomous Vehicles
ME 750 AG Indoor Air Pollution & Simulation
ME 750 AI Phase Transformation in Materials
ME 752 Failure Analysis Methods and Tools
ME 753 Advanced Materials for Energy Systems
ME 758 Non-Linear Control Electro-Mech Systems
ME 760 Fracture Mechanics
ME 762 Polymeric Composite Materials
ME 775 Introduction to Micro-electro Mech Systems
ME 782 Engineering Applications of CFD and Heat Transfer