THE UNIVERSITY OF ALABAMA
Curriculum for Mechanical Engineering

Student Name

CWID

Fall 2012
128 Semester Hours

Freshman Year
15 Credit Hours
- CH 101 General Chemistry 1
  * Social and Behavioral Sciences
- ENGR 111 Engineering the Future
- MATH 125 Calculus 1
- ME 121 Introduction to Mechanical Engineering
- ENGR 131 Engineering Concepts 1
- ENGR 141 Engineering Concepts 2
- ENGR 151 Fundamental Graphics
- ENGR 161 Engineering Graphics
- EN 101 English Composition 1
- EN 102 English Composition 2

Sophomore Year
18 Credit Hours
- PH 105 General Physics with Calculus 1
  * Approved Science Elective
- PH 106 General Physics with Calculus 2
  * Lab Included
- MATH 127 Calculus 2
- MATH 128 Calculus 3
- AEM 201 Statics
- AEM 264 Dynamics
- AEM 311 Fluid Mechanics
- ME 215 Thermodynamics 1
- ME 227 Thermodynamics 2

Junior Year
15 Credit Hours
- MTE 271 Engineering Materials 1
- AEM 250 Mechanics of Materials 1
- AEM 251 Mechanics of Materials Lab
- ECE 320 Fundamentals of Electrical Engineering
- ECE 320 Writing Core Course
- ME 309 Heat Transfer
- ME 349 Engineering Analysis
- ME 350 Static Machine Components
- ME 360 Control and Instrumentation Components Lab Included
- ME 372 Dynamic Systems
- ME 372 Computer Core Course
- ME 390 Mechanical Engineering

Senior Year
15 Credit Hours
- ME 383 Modern Manufacturing Practices
- ME 415 Energy Systems Design OR ME 407 HVAC
- ME 489 Mechanical Engineering Design 1
- ME 490 Mechanical Engineering Design 2
- ME 440 Technical Elective
- EN 102 English Composition 2
- EN 102 Social and Behavioral Sciences
- EN 102 Humanities
- EN 102 Humanities
- EN 102 Humanities
- EN 102 Humanities

* Prerequisites not shown
Prerequisite
Corequisite
Credit Hours
Required Course
Elective
Color Key:
Engineering
Natural Science
Humanities
Freshman Composition
Social and Behavioral Sciences

All 4 of these courses are required, and must include one 2-course In-Depth Study series.

Updated 10/24/2012