

MECHANICAL ENGINEERING

2020 – 2021 Curriculum (updated May 2020)

Student: _____

Date: _____

CUID: _____

Advisor: _____

FRESHMAN YEAR

_____ 4 CH 1010 General Chemistry
 _____ 3 ENGL 1030 Composition and Rhetoric
 _____ 2 ENGR 1020 Engineering Disciplines and Skills
 _____ 4 MATH 1060 Calculus of One Variable I
 _____ 3 Gen Ed _____
 16

_____ 3 ENGR 1410 Programming and Problem Solving
 _____ 2 ENGR 2080 Engr. Graphics and Machine Design
 _____ 4 MATH 1080 Calculus of One Variable II
 _____ 3 PHYS 1220 Physics with Calculus I
 _____ 1 PHYS 1240 Physics Lab. I
 _____ 3 Gen Ed _____
 16

SOPHOMORE YEAR

_____ 1 ME 2000 Sophomore Seminar
 _____ 5 ME 2010 Statics and Dynamics for Mech. Engr.
 _____ 2 ME 2220 Mechanical Engineering Lab. I *OR* **Fall Semester:**
 3 MSE 2100 Intro. to Materials Science **Last names A – L take**
 ME 2220, M – Z take
 _____ 4 MATH 2060 Calculus of Several Variables **MSE 2100**
 _____ 3 PHYS 2210 Physics with Calculus II **Spring is reverse**
 15-16

_____ 2 ECE 2070 Basic Electrical Engineering
 _____ 1 ECE 2080 Basic Electrical Engineering Lab.
 _____ 3 ME 2030 Found. Of Thermal and Fluid Systems
 _____ 3 ME 2040 Mechanics of Materials
 _____ 2 ME 2220 Mechanical Engineering Lab. I *OR*
 3 MSE 2100 Intro. to Materials Science
 _____ 4 MATH 2080 Int. to Ordinary Differential Equations
 15-16

JUNIOR YEAR

_____ 3 ENGL 3140 Technical Writing
 _____ 3 ME 3030 Thermodynamics
 _____ 3 ME 3070 Foundations of Mechanical Systems
 _____ 3 ME 3080 Fluid Mechanics
 _____ 2 ME 3330 Mechanical Engineering Lab. II *OR*
 3 Statistics Requirement _____
 _____ 3 MATH 3650 Numerical Methods for Engineers
 17-18

_____ 3 ME 3040 Heat Transfer
 _____ 3 ME 3050 Modeling and Analysis of Dynamic Systems
 _____ 3 ME 3060 Fundamentals of Machine Design
 _____ 3 ME 3120 Manufacturing Processes and Their
 Application
 _____ 2 ME 3330 Mechanical Engineering Lab. II *OR*
 3 Statistics Requirement _____
 14-15

SENIOR YEAR

_____ 3 ME 4010 Mechanical Engineering Design
 _____ 3 ME 4030 Control & Integration of Multi-Domain Dynamic
 Systems
 _____ 2 ME 4440 Mechanical Engineering Lab. III *OR*
 3 Technical Requirement _____
 _____ 3 Mech. Engr. Professional Requirement _____
 _____ 3 Mech. Engr. Technical Requirement _____
 14-15

_____ 1 ME 4000 Senior Seminar
 _____ 3 ME 4020 Internship in Engineering Design
 _____ 2 ME 4440 Mechanical Engineering Lab. III *OR*
 3 Technical Requirement _____
 _____ 3 Gen Ed _____
 _____ 3 Gen Ed _____
 _____ 3 Mech. Engr. Technical Requirement _____
 15-16

125 Total Semester Hours

General Education Requirements

LIT	Non-Lit	SS1	SS2	CCA	STS

Once a student begins coursework at Clemson, the following courses may NOT be transferred to Clemson for the ME degree: ME 2010, ME 2030, ME 2040

Comments: _____

Change of Major Checklist	
Required	Completed
CH 1010	
ENGL 1030	
ENGR 1020	
ENGR 1410	
MATH 1060	
PHYS 1220	
GPA = 2.6; C or better required in each class	

Students should always refer to the Academic Catalog for course descriptions and for course pre-requisites, corequisites, and concurrent enrollment requirements. Academic Catalog can be found here: <https://www.clemson.edu/registrar/academic-catalogs/>