

FOUR YEAR PLAN TO COMPLETE THE BS IN MECHANICAL ENGINEERING DEGREE (MAE_BS01)
 135 UNITS REQUIRED DEPARTMENT OF MECHANICAL & AEROSPACE ENGINEERING

Semester 1

Course	Units
University 100	1
Composition or Oral Communication	3
MAE 172, Engineering Graphics	3
MATH 122 Anal Geom & Calc I (GE B2)	4
GE class	3
GE class	3
TOTAL UNITS	17

Semester 2

Course	Units
PHYS 151, Mech/Heat Sound (GE B1b)	4
MATH 123, Anal Geom & CalcII(GE B2)	4
Oral Communication or Composition	3
CHEM 111A, Gen Chemistry (GE B1b)	5
ENGR 101, Intro to Engineering	1
TOTAL UNITS	17

Semester 3

Course	Units
CE 205, Anal Mech I(Statics)	3
PHYS 152, Elec&Magnetism (GE B1b)	4
MATH 224, Anal Geom & Calc III	4
MAE 205, Computer Methods in ME	2
Critical Thinking	3
MAE 272, Intro to Manufacturing Proc	2
TOTAL UNITS	18

Semester 4

Course	Units
EE 211, Electric Circuits I	3
EE 211L, Electric Circuits Lab	1
GE class	3
MAE 322, Engr Matls&Matls Process	3
MATH 370A, Applied Mathematics	3
GE class	3
TOTAL UNITS	16

Semester 5

Course	Units
CE 335, Fluid Mechanics	3
MAE 373, Mech of Deformable Bodies	3
MAE 300, Engr Instrumentation & Meas	2
MAE 330, Engr Thermodynamics I	3
MAE 371, Anal Mech II (Dynamics)	3
MAE 305, Numerical Methods in ME	3
TOTAL UNITS	17

Semester 6

Course	Units
MAE 361, Matls & Properties Lab	1
MAE 336, Power Plant Design	3
MAE 376, Modeling & Anal Dyn Sys	3
GE Capstone course	3
MAE 375, Kinematics & Dyn Mech	3
ECON 300, Fund Econ (GE D2)	3
CE 336, Fluid Mechanics Lab	1
TOTAL UNITS	17

Semester 7

Course	Units
MAE 476, Mech Control Systems I	3
GE Capstone course	3
MAE 337, Thermal Engr Lab	2
MAE 431, Heat Transfer Systems Desn	3
MAE 471, Anal Desn Mech Comp	3
MAE 490, Special Topics in ME	3
TOTAL UNITS	17

Semester 8

Course	Units
CE 406, Engr Econ & Admin	3
GE Capstone course	3
MAE 459, Professional Practice	1
MAE 472, Design of ME Systems	3
MAE 409, Mod Comp Aspects in ME	3
GE class	3
TOTAL UNITS	16

Engineering majors may waive 6 units of General Education (Categories D.2 and B.1.a or C3 or E.)

