

SIX YEAR PLAN TO COMPLETE THE BS IN MECHANICAL ENGINEERING (MAE_BS01)			
135 UNITS REQUIRED		DEPARTMENT OF MECHANICAL & AEROSPACE ENGINEERING	
Semester 1		Semester 2	
Course	Units	Course	Units
UNIV 100 Intro to the University	1	PHYS 151 Mech & Heat (GE B1b)	4
MAE 172 Engineering Graphics	3	ENGR 101 Intro to Engineering	1
MATH 122 Calculus I (GE B2)	4	Oral Communication or Composition	3
Composition or Oral Communication	3	GE class	3
TOTAL UNITS	11	TOTAL UNITS	11
Semester 3		Semester 4	
Course	Units	Course	Units
MATH 123 Calculus II(GE B2)	4	MATH 224 Anal Geom & Calc III	4
CHEM 111A General Chem (GE B1)	5	PHYS 152 Elec & Magnetism (GE B1)	4
Critical Thinking	3	GE class	3
TOTAL UNITS	12	TOTAL UNITS	11
Semester 5		Semester 6	
Course	Units	Course	Units
CE 205 Anal Mech I (Statics)	3	MAE 205 Computer Methods in ME	2
EE 211 Electric Circuits I	3	MAE 322 Engr Matls & Matls Process	3
EE 211L Electric Circuits Lab	1	MATH 370A Applied Mathematics	3
MAE 272 Intro to Manufacturing Process	2	ECON 300 Fund of Econ (GE D2)	3
GE class	3		
TOTAL UNITS	12	TOTAL UNITS	11
Semester 7		Semester 8	
Course	Units	Course	Units
MAE 330 Engr Thermodynamics I	3	MAE 336 Power Plant Design	3
MAE 373 Mech of Deformable Bodies	3	MAE 371 Anal Mech II (Dynamics)	3
MAE 300 Engr Instrumentation & Meas	2	MAE 361 Matls & Properties Lab	1
GE class	3	GE class	3
TOTAL UNITS	11	TOTAL UNITS	10
Semester 9		Semester 10	
Course	Units	Course	Units
MAE 337 Thermal Engr Lab	2	MAE 375 Kinematics & Dyn of Mech	3
MAE 305 Numerical Methods in ME	3	MAE 376 Modeling & Anal Dyn Sys	3
CE 335 Fluid Mechanics	3	MAE 431 Heat Transfer Systems Des	3
CE 336 Fluid Mechanics Lab	1	GE Capstone course	3
GE Capstone course	3		
TOTAL UNITS	12	TOTAL UNITS	12
Semester 11		Semester 12	
Course	Units	Course	Units
MAE 409 Mod Comp Aspects in ME	3	MAE 459 Professional Practice Sem	1
MAE 471 Anal Desn Mech Comp	3	MAE 472 Design of ME Systems	3
MAE 476 Mechanical Control Systems I	3	MAE 490 Special Topics in MAE	3
GE Capstone course	3	CE 406 Engineering Economics	3
TOTAL UNITS	12	TOTAL UNITS	10
Engineering majors may waive 6 units of General Education (Categories D.2 and B.1.a or C3 or E.)			