

ADVISING ROADMAP TO COMPLETE THE BSAE DEGREE (MAE_BS02) IN FIVE YEARS

135 UNITS REQUIRED

MECHANICAL & AEROSPACE ENGINEERING

****Effective for BSAE majors admitted Fall 2005 and later****

Semester 1

Course	Units
MAE 101A Intro to Aerospace Engr	1
UNIV 100 Intro to the University	1
MATH 122 Calculus I (GE B2)	4
Composition or Oral Communication	3
General Education	3
General Educator	3
TOTAL UNITS	15

Semester 2

Course	Units
MATH 123 Calculus II (GE B2)	4
PHYS 151 Mech & Heat (GE B1b)	4
Oral Communication or Composition	3
General Education	3
TOTAL UNITS	14

Semester 3

Course	Units
MATH 224 Anal Geom & Calc III	4
PHYS 152 Elec&Magnetism (GE B1b)	4
MAE 172 Engineering Graphics	3
Critical Thinking	3
TOTAL UNITS	14

Semester 4

Course	Units
CHEM 111A General Chem (GE B1b)	5
CE 205 Anal Mech I (Statics)	3
MATH 370A Applied Math	3
MAE 205 Computer Methods in ME	2
TOTAL UNITS	13

Semester 5

Course	Units
ECON 300 Fund of Economics (GE D2)	3
MAE 305 Numerical Methods in MAE	3
MAE 371 Anal Mech II (Dynamics)	3
General Education	3
General Education	3
TOTAL UNITS	15

Semester 6

Course	Units
MAE 330 Engr Thermodynamics I	3
MAE 373 Mech of Deformable Bodies	3
MAE 381 Fund. Spacecraft Dynamics	3
GE Capstone class	3
GE Capstone class	3
TOTAL UNITS	15

Semester 7

Course	Units
MAE 333 Engr Fluid Mechanics	3
MAE 350 Flight Mechanics	3
MAE 481 Space Systems Engineering	3
GE Capstone class	3
MAE 374 Mech Prop Matls Lab	1
TOTAL UNITS	13

Semester 8

Course	Units
MAE 334 Aerodynamics I	3
MAE 365 Aerospace Structures I	3
MAE 390 Aerospace Engr Seminar	1
MAE 453 Stab.Cntrl. Aerospace Vehic	3
MAE 300 Engineering Inst & Meas	2
TOTAL UNITS	12

Semester 9

Course	Units
MAE 434 Aerodynamics II	3
MAE 465 Aerospace Structures II	3
MAE 478 A/S System Design I	3
MAE XXX Elective	3
TOTAL UNITS	12

Semester 10

Course	Units
MAE 452 Propulsion	3
MAE 479 A/S System Design II	2
MAE 483 Space Flight & Orbital Mech	3
MAE XXX Elective	3
MAE 440 Aerodynamics Lab	1
TOTAL UNITS	12

Engineering students may waive six units of General Education (Category D.2 and B.1.a or E)