

**ADVISING ROADMAP TO COMPLETE THE BSAE DEGREE (MAE\_BS02) IN SIX YEARS**

132 UNITS REQUIRED

MECHANICAL & AEROSPACE ENGINEERING

**\*\*Effective for BSAE majors admitted in Fall 2005 or later\*\***

(F=Fall only; S=Spring only; F,S=offered both Fall & Spring)

**Semester 1**

Course	Units
MAE 101A Intro to Aerospace Engr	1 (F)
UNIV 100 Intro to the University	1
MATH 122 Calculus I (GE B2)	4
Composition or Oral Communication	3
<b>TOTAL UNITS</b>	<b>9</b>

**Semester 3**

Course	Units
MATH 224 Anal Geom & Calc III	4
PHYS 152 Elec&Magnetism (GE B1b)	4
Critical Thinking	3
<b>TOTAL UNITS</b>	<b>11</b>

**Semester 5**

Course	Units
CE 205 Anal Mech I (Statics)	3
MATH 370A Applied Math I	3
General Education	3
General Education	3
<b>TOTAL UNITS</b>	<b>12</b>

**Semester 7**

Course	Units
MAE 330 Engr Thermodynamics I	3 (F,S)
MAE 350 Flight Mechanics	3 (F)
MAE 305 Numerical Methods in MAE	3 (F,S)
GE Capstone class	3
<b>TOTAL UNITS</b>	<b>12</b>

**Semester 9**

Course	Units
MAE 333 Engr Fluid Mechanics	3 (F)
MAE 373 Mech of Deformable Bodies	3 (F,S)
MAE XXX Elective	3
MAE 481 Space Systems Engineering	3 (F)
<b>TOTAL UNITS</b>	<b>12</b>

**Semester 11**

Course	Units
MAE 434 Aerodynamics II	3 (F)
MAE 465 Aerospace Structures II	3 (F)
MAE 478 A/S System Design I	3 (F)
<b>TOTAL UNITS</b>	<b>9</b>

**Semester 2**

Course	Units
MATH 123 Calculus II (GE B2)	4
PHYS 151 Mech & Heat (GE B1b)	4
Oral Communication or Composition	3
<b>TOTAL UNITS</b>	<b>11</b>

**Semester 4**

Course	Units
CHEM 111A Genl Chem (GE B1b)	5
MAE 172 Engineering Graphics	3 (F,S)
MAE 205 Computer Methods in ME	2 (F,S)
General Education	3
<b>TOTAL UNITS</b>	<b>13</b>

**Semester 6**

Course	Units
MAE 300 Engineering Inst & Meas	2 (F,S)
ECON 300 Fund of Econ (GE D2b)	3
MAE 371 Anal Mech II Dynamics	3 (F,S)
MAE 390 AE Seminar	1 (S)
General Education	3
<b>TOTAL UNITS</b>	<b>12</b>

**Semester 8**

Course	Units
MAE 381 Fund. Spacecraft Dynamics	3 (S)
MAE 453 Stab&Cntrl Aerospace Veh	3 (S)
GE Capstone class	3
GE Capstone class	3
<b>TOTAL UNITS</b>	<b>12</b>

**Semester 10**

Course	Units
MAE 334 Aerodynamics I	3 (S)
MAE 365 Aerospace Structures I	3 (S)
MAE 374 Mech Prop Matls Lab	1 (F,S)
MAE 483 Space Flight & Orbital Mech	3 (S)
<b>TOTAL UNITS</b>	<b>10</b>

**Semester 12**

Course	Units
MAE 452 Propulsion	3 (S)
MAE 479 A/S System Design II	2 (S)
MAE XXX Elective	3
MAE 440 Aerodynamics Lab	1 (S)
<b>TOTAL UNITS</b>	<b>9</b>

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