

## Sample Schedule B.S.E. (Aerospace Engineering)

	Credit Hours	Terms							
		1	2	3	4	5	6	7	8
<b>Subjects required by all programs (55 hrs.)</b>									
Mathematics 115, 116, 215, and 216	16	4	4	4	4	–	–	–	–
Engr 100, Intro to Engr	4	4	–	–	–	–	–	–	–
Engr 101, Intro to Computers	4	–	4	–	–	–	–	–	–
Chemistry 125/126 and 130, or 210 and 211	5	5	–	–	–	–	–	–	–
Physics 140 with Lab 141; Physics 240 with Lab 241	10	–	5	5	–	–	–	–	–
Intellectual Breadth	16	4	4	–	–	–	–	4	4
<b>Related Technical Core Subjects (12 hrs.)</b>									
ME 240, Intro to Dynamics and Vibrations	4	–	–	–	4	–	–	–	–
MSE 220, Intro to Materials and Manufacturing	4	–	–	–	–	–	–	4	–
EECS 314, Circuit Analysis and Electronics	4	–	–	–	–	4	–	–	–
<b>Aerospace Science Subjects (29 hrs.)</b>									
Aero 201, Intro to Aerospace Engineering	3	–	–	3	–	–	–	–	–
Aero 215, Intro to Solid Mechanics and Aerospace Structures	4	–	–	–	4	–	–	–	–
Aero 225, Intro to Gas Dynamics	4	–	–	–	4	–	–	–	–
Aero 315, Aircraft and Spacecraft Structures	4	–	–	–	–	4	–	–	–
Aero 325, Aerodynamics	4	–	–	–	–	–	4	–	–
Aero 335, Aircraft and Spacecraft Propulsion	4	–	–	–	–	4	–	–	–
Aero 347, Space Flight Mechanics	3	–	–	–	–	3	–	–	–
Aero 348, Aircraft Dynamics and Control	3	–	–	–	–	–	3	–	–
<b>Aerospace Engineering Subjects (16 hrs.)</b>									
Aero 205, Intro to Aerospace Engineering Systems	3	–	–	3	–	–	–	–	–
Aero 285, Aerospace Seminar	1	–	–	1	–	–	–	–	–
Aero 305, Aerospace Engineering Lab I	4	–	–	–	–	–	4	–	–
Aero 405, Aerospace Engr Lab II	4	–	–	–	–	–	–	4	–
Aero 481, Aircraft Design or Aero 483, Space System Design	4	–	–	–	–	–	–	–	4
<b>Electives (16 hrs.)</b>									
Technical Electives	7	–	–	–	–	–	–	4	3
General Electives	9	–	–	–	–	–	5	–	4
<b>Total</b>	128	17	17	16	16	15	16	16	15

Candidates for the Bachelor of Science degree in Engineering (Aerospace Engineering) — B.S.E (Aerospace E.) — must complete the program listed above. This sample schedule is an example of one leading to graduation in eight terms. For a description of the courses listed please see the College of Engineering Bulletin.

### Technical Electives (7 credits):

A total of 7 credits of technical elective courses is required. The courses must be upper division (that is 300 level or above) courses from engineering, mathematics, physical science, or other courses approved by an academic adviser, that are chosen to satisfy the following constraints:

One course of 3 or more credits must be advanced mathematics or advanced science; this could include a course in astronomy, biology, chemistry, computer science, mathematics, or physics. Recommended courses include; Math 351, Math 371, Math 404, Math 412, Math 416, Math 419, Math 425, Math 450, Math 454, Math 471, Stat 412, Physics 340, Physics 341, Physics 390, Physics 402, Physics 405, Physics 413, Physics 451. Other courses can be selected if approved by an academic adviser.