

Name _____

Major: Aerospace Engineering

Degree BSE

ASU ID _____

Concentration: Astronautics

Anticipated Grad. Date _____

AGEC-A, AGECE-B, AGECE-S;

Completed: Yes No

I. English Proficiency (6 hrs) <i>(University requirement – "C" min required)</i>	Hrs Cr ASU Tr	Trans From	Gr
+ENG 101 / 107 First-Year Comp (3) and +ENG 102 / 108 First-Year Comp (3)			
Or, if eligible (see Catalog for eligibility), +ENG 105 Adv First-Year Comp (3) and An Applicable Elective (3) – see Department			
Sub Total (I)			

# C. Lower Division Engr (22 hrs)	Hrs Cr ASU Tr	Trans From	Gr
SES 100 Intro to Exploration	3		
SES 210 Engineering Syst	3		
MAE 212 Engineering Mechanics	4		
MAE 213 Solid Mechanics	3		
MAE 214 Computer Aided Engr I	1		
MAE 240 Thermofluids I	4		
EEE 202 Circuits I	4		
Sub Total (III)			

II. General Requirements (18 hrs) *(See Catalog for approved courses)*

A. Humanities & Social Sciences (15 hrs min)
(Required: 1 course upper division; plus a minimum of two courses that satisfy three awareness areas: cultural (C), global (G), and historical (H). Double counting is permissible between HU or SB and the awareness areas and also within the awareness areas.)
Humanities, Fine Arts, and Design (6 hrs min)(HU)

Social/Behavioral Sciences (6 hrs min)(SB)

Awareness Areas

Cultural

Global

Historical

B. Literacy/Critical Inquiry

#L:	3		
#L: MAE 400 Engineering Profession			

**Satisfied by
Courses in Major**

C. Natural Sciences (8 hrs)

+SQ: PHY 121/122 Physics I/Lab I			
+SQ: PHY 131/132 Physics II/LabII			

**Satisfied by
Courses in Major**

D. Mathematical Studies (6 hrs)

+CS:MAE 384 Numerical Methods			
+MA: MAT 275 Mod Diff Eqns			

**Satisfied by
Courses in Major**

Sub Total (II)

III. Required Lower Division Courses (46 hrs)

A. Natural Sciences/Basic Sciences (12 hrs)

+SQ: CHM 114, 115 ^{2,3} , or 116 ³ Chemistry	4		
+SQ: PHY 121 Physics I	3		
+SQ: PHY 122 Physics Lab I	1		
+SQ: PHY 131 Physics II	3		
+SQ: PHY 132 Physics Lab II	1		

B. Mathematical Studies (12 hrs)

MAT 265 Calc for Engineers I	3		
MAT 266 Calc for Engrs II	3		
MAT 267 Calc for Engrs III	3		
MA: MAT 275 Mod Diff Equ	3		

Submitted by _____
Student Signature _____ Date _____

IV. Required Upper Division Courses (47 hrs)

EEE 455 Communicatn Syst	4		
MAE 318 Sensors and Controls	5		
MAE 345 Struc Space Environment	4		
L: MAE 362 Hgh-Speed Aerodynam ¹	4		
CS: MAE 384 Numerical Methods	3		
L: MAE 400 Engineering Profession	3		
MAE 462 Space Vehicle Dynamics	3		
MAE 465 Rocket Propulsion	3		
SES 310 Elec/Mech Engr Design	3		
SES 311 Life in the Universe	3		
SES 410 Senior Design I	3		
SES 411 Senior Design II	3		
MAT 343 Applied Linear Algebra	3		
Aeronautics elective (3 hrs)	3		
Sub Total (IV)			

V. General Elective (3 hrs)

	3		
Sub Total (V)			

Total Upper Division _____ **(minimum 45 required)**
+ A minimum grade of "C" (2.0) required

Designates Major Course: A minimum cumulative GPA of 2.00 required

Designates a skill-set course

¹ Both MAE 360 and 362 must be completed for L credit

² Only 4 hours of CHM 115 will apply toward degree credit

³ CHM 113 is prerequisite and does not apply toward degree credit

Graduation Requirements
Regular Curriculum – 120 Hours

Semester Hour Summary	Hrs/ASU	Tr Hrs	Total
I. English Proficiency			
II. General Requirements			
III. Required Lower Division			
IV. Required Upper Division			
V. General Elective			
Total Program Hours			

Approved _____
Advisor _____ Date _____

Approved _____
Department Chair _____ Date _____