ARIZONA STATE UNIVERSITY

2007-08 Curriculum Check Sheets ***Fulton School of Engineering***

Name _____ Major: Aerospace Engineering Degree BSE

ASU ID _____ Concentration: Astronautics

Anticipated Grad. Date _____ *AGEC-A, AGEC-B, AGEC-S;* *Completed:* □ *Yes* □ *No*

I. English Proficiency (6 hrs) *(University requirement – "C" min required)*	Hrs Cr ASU	Hrs Cr 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) _____

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 Course in Major***	

C. Natural Sciences *(8 hrs)*	
+*SQ:* PHY 121/122 Physics I & Lab I	***Satisfied by Courses in Major***
+*SQ:* PHY 131/132 Physics II &Lab II	

D. Mathematical Studies *(6 hrs)*	
+#*CS*:MAE 384 Numerical Methods	***Satisfied by Courses in Major***
+*MA*: MAT 275 Mod Diff Eqns	

Sub Total (II) _____

III. Required Lower Division Courses (46 hrs)					
A. Natural Sciences/Basic Sciences *(12 hrs)*					
+ CHM 114, 115[2, 3], or 116[3] Chemistry *(SQ)*	4				
+ PHY 121 Physics I *(SQ)*[4]	3				
+ PHY 122 Physics Lab I*(SQ)*[4]	1				
+ PHY 131 Physics II *(SQ)*[4]	3				
+ PHY 132 Physics Lab II *(SQ)*[4]	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				
+MAT 275 Mod Diff Equ *(MA)*	3				

# C. Lower Division Engr *(22 hrs)*	Hrs Cr ASU	Hrs Cr 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) _____

# IV. Required Upper Division Courses (47 hrs)					
EEE 455 Communicatn Syst	4				
MAE 318 Sensors and Controls	5				
MAE 345 Struc Space Environment	4				
MAE 362 Hgh-Speed Aerodynam [1]*(L)*	4				
MAE 384 Numerical Methods *(CS)*	3				
MAE 400 Engineering Profession *(L)*	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)					
ASU 101 The ASU Experience	1				
	2				

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*

[4] *Must complete lecture and lab to receive SQ 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			