ARIZONA STATE UNIVERSITY

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

Name _____ Major: Mechanical Engineering Degree BSE

ASU ID _____

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	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 (15 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 *(6 hrs)*	
#*L:* MAE 491 Thermofluids Lab	***Satisfied by Courses in Major***
#*L:* MAE 400 Engineering Profession	

C. Natural Sciences/Basic 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) – mark after taken*	
#*CS*: MAE 100 Intro to ME & AE	***Satisfied by Courses in Major***
+*MA:* MAT 275 Modern Diff Eqs	

Sub Total (II) _____

III. Required Lower Division Courses (52 hrs)					
A. Natural Sciences/Basic Sciences *(18 hrs)*					
BME 111 Engr Persp on Bio Sys **OR** BCH 361 Princ of Biochemistry	3				
+CHM 114, 115[1, 2], or 116[2] Chemistry *(SQ)*	4				
+CHM 231 Intro to Organic Chem or +CHM 240 Intro. Physical Chem	3				
+ PHY 121 Physics I *(SQ)*[3]	3				
+ PHY 122 Physics Lab I *(SQ)*[3]	1				
+ PHY 131 Physics II *(SQ)*[3]	3				
+ PHY 132 Physics Lab II *(SQ)*[3]	1				
B. Mathematical Studies *(12 hrs)*					
+MAT 265 Calc for Engrs I	3				
+MAT 266 Calc for Engrs II	3				
+MAT 267 Calc for Engrs III	3				
+MAT 275 Mod Diff EQ *(MA)*	3				

# C. Lower Division Engr*(22 hrs)*	Hrs Cr ASU	Tr	Trans From	Gr
+MAE 100 Intro to ME & AE *(CS)*	3			
+MAE 212 Engineering Mechanics	4			
MAE 213 Mechanics of Solids	3			
MAE 214 CAE I	1			
MAE 240 Thermofluids I	4			
MSE 250 Struc & Prop of Materials	3			
EEE 202 Circuits I	4			
Sub Total (III) _____				

IV. Required Upper Division Courses (47 hrs)				
#MAE 318 Sensors and Controls	5			
#MAE 322 Structural Mechanics	4			
#MAE 323 CAE II	2			
#MAE 340 Thermofluids II	3			
#MAE 342 Principles of Design	3			
#MAE 384 Numerical Methods *(CS)*	3			
#MAE 400 Engineering Profession *(L)*	3			
#MAE 488 ME Design I	3			
#MAE 489 ME Design II	3			
#MAE 491 Thermofluids Lab *(L)*	3			
+MAT 343 Applied Linear Algebra	3			
Technical Electives (12 hrs)				
Sub Total (IV) _____				

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

[2] CHM 113 is prerequisite and does not apply toward degree credit

[3] 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			
Total Program Hours			

Submitted by _____ _____
Student Signature *Date*

Approved _____ _____
Advisor *Date*

Approved _____ _____
Department Chair *Date*