ARIZONA STATE UNIVERSITY

2006-07 Curriculum Check Sheets ***Fulton School of Engineering***

Name _____ Major: Engineering Special Programs Degree BSE

ASU ID _____ Concentration: Premedical Engineering

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 (6 hrs min)(HU)					
Social/Behavioral Sciences (6 hrs min)(SB)					
Awareness Areas					
Cultural					
Global					
Historical					

B. Literacy/Critical Inquiry *(6 hrs)*	
L: BME 235 Physiology for Bio	***Satisfied by Courses in Major***
L: BME 413 Bio Instrumentation [1]	
L: BME 423 Bio Instrumentation Lab [1]	

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: CSE 100 Principles of Prog C++	***Satisfied by Courses in Major***
MA: MAT 275 Modern Diff. Eqs	

Sub Total (II) _____

III. Required Lower Division Courses (61 hrs)

A. Natural Sciences/Basic Sciences *(28 hrs)*					
SQ: BIO 188 General Biology II	4				
SQ: CHM 113 General Chemistry I	4				
SQ: CHM 116 General Chemistry II	4				
CHM 233 Gen Organic Chem I	3				
CHM 237 Gen Organic Chem Lab I	1				
CHM 234 Gen Organic Chem II	3				
CHM 238 Gen Organic Chem Lab II	1				
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				

Submitted by _____ _____
Student Signature *Date*

B. Mathematical Studies *(9 hrs)*	Hrs Cr ASU	Tr	Trans From	Gr
MAT 294 ST: Calc for Engrs I	3			
MAT 294 ST: Calc for Engr. II	3			
MA: MAT 275 Mod Diff. Eqs	3			
C. Lower Division Engrg *(24 hrs)*				
CS: BME 100 Intro to Bioengr	3			
+*L:* BME 235 Physiology for Engineers	4			
+BME 294 ST: Conserv Princip in Bio	3			
CS: CSE 100 Principles of Prog C++	3			
EEE 202 Circuits I	4			
IEE 280 Prob and Stats for Eng	3			
MAE 212 Engineering Mechanics	4			
Sub Total (III) _____				

# IV. Required Upper Division Courses (38 hrs)				
+BME 300 Bioengr Product Design	3			
+BME 318 Biomaterials	4			
+BME 331 Bioengineering Transport I	3			
+BME 350 Signals & Sys for Bio	3			
+BME 370 Microcomputer Apps in Bio	3			
+*L:* BME 413 Bio Instrumentation [1]	3			
+BME 417 Biomed Eng Cap Design I	4			
+*L:* BME 423 Bio Instrumentation Lab [1]	1			
+BME 434 Applications in Bio OR +BME 416 Biomechanics OR +BME 419 Biocontrol Systems	3			
+BME 490 Biomed Eng Cap Design II	4			
CHM 341 El Physical Chemistry	3			
MAT 343 Applied Linear Algebra	3			
Technical Electives (1 hrs)				
Sub Total (IV) _____				

Total Upper Division _____ (minimum 45 required)

+ A minimum grade of "C" (2.0) required

 # Designates upper division course in the Major: A minimum cumulative GPA of 2.00 required

Designates a skill-set course

[1] Must complete both BME 413 & 423 to receive L 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 _____ _____
Advisor Signature *Date*

Submitted by _____ _____
Department Chair *Date*

Final Revision January 23, 2006