

Name _____

Major: Engineering Special Programs

Degree BSE

ASU ID _____

Concentration: Premedical Engineering

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		Trans From	Gr
	ASU	Tr		
+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)

	Hrs	Cr	Trans	Gr

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

	Hrs	Cr	Trans	Gr

Awareness Areas

	Hrs	Cr	Trans	Gr
Cultural				
Global				
Historical				

B. Literacy/Critical Inquiry (6 hrs)

	Hrs	Cr	Trans	Gr
L: BME 235 Physiology for Bio				
L: BME 413 Bio Instrumentation ¹				
L: BME 423 Bio Instrumentation Lab ¹				

**Satisfied by Courses
in Major**

C. Natural Sciences (8 hrs)

	Hrs	Cr	Trans	Gr
SQ: PHY 121/122 Physics I/Lab I				
SQ: PHY 131/132 Physics II/Lab II				

**Satisfied by Courses
in Major**

D. Mathematical Studies (6 hrs)

	Hrs	Cr	Trans	Gr
CS: CSE 100 Principles of Prog C++				
MA: MAT 275 Modern Diff. Eqs				

**Satisfied by Courses
in Major**

Sub Total (II)

III. Required Lower Division Courses (61 hrs)

A. Natural Sciences/Basic Sciences (28 hrs)

	Hrs	Cr	Trans	Gr
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		Trans From	Gr
	ASU	Tr		
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)

	Hrs	Cr	Trans	Gr
+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	3			
+BME 419 Biocontrol Systems				
+BME 490 Biomed Eng Cap Design II	4			
CHM 341 EI 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