Final Revision: January 23, 2006

	ARIZONA STATE
	UNIVERSITY

Name				Major: Bioengineering	Deg	ree BSE	
ASU ID				<u> </u>			
				ACEC A ACEC B ACEC S	- V	M	
Anticipated Grad. Date				AGEC-A, AGEC-B, AGEC-S; Completed.	□ Ies □	IVO	
L. English Proficiency (6 hrs) University requirement – "C" min required)	<u>Hrs Cr</u> ASU Tr	Trans From	Gr	B. Mathematical Studies (12 hrs)	Hrs Cr ASU Tr		
-ENG 101 / 107 First-Year Comp (3) and				MAT 275 Mod Diff. Eqs	3		
ENG 102 / 108 First-Year Comp (3)				MAT 294 ST: Calc for Engineers I	3		
Or , if eligible (see Catalog for eligibility),				MAT 294 ST: Calc for Engrs II	3		
ENG 105 Adv First-Year Comp (3) and				MAT 294 ST: Calc for Engrs III	3		
An Applicable Elective (3) – see Department				C. Lower Division Engrg (24 hrs)			
Sub Total (I) _				+CS: BME 100 Intro to Bioengineering	3		
II. General Requirements (15 hrs) (See Cate	alog for appro	ved cour	rses)	+L: BME 235 Physiology for Engineers	4		
A. Humanities & Social Sciences (15 hrs min)				+BME 294 ST: Conserv Princip in Bio	3		
(Required: 1 course upper division; plus a minimum of two courses that say global (G), and historical (H). Double counting is permissible between HU				CS: CSE 100 Principles of Prog C++	3		
also within the awareness areas.)				EEE 202 Circuits I	4		
Humanities/Fine Arts (6 hrs min)(HU)				IEE 280 Prob and Stats for Eng	3		
		-		MAE 212 Engineering Mechanics	4		
		-		Sub Total (III)			
0 10 1 10 10 10 10 10 10 10 10 10 10 10				# IV. Required Upper Division Courses (43	3 hrs)		
Social/Behavioral Sciences (6 hrs min)(SB)				+BME 300 Bioengineering Prod Design	3		
				+BME 318 Biomaterials	4		
				+BME 331 BME Transport Phenom	3		
				+BME 350 Signals & Sys for Bio	3		
Awareness Areas				+BME 370 Microcomputer Apps in Bio	3		
Cultural			I Strong	+L: BME 413 Bio Instrumentation ¹	3		
Global	<u> </u>			+BME 417 Biomed Eng Cap Design I	4		
Historical				+L: BME 423 Bio Instrumen Lab ¹	1		
B. Literacy/Critical Inquiry (6 hrs)				+BME 434 Applications in Bio OR			
+L: BME 235 Physiology for Bio	Satisfied by	v Cours	ses	+BME 416 Biomechanics OR	3		
+#L: BME 413 Bio Instrumentation	in M			+BME 419 Biocontrol Systems			
+#L: BME 423 Bio Instrumentation Lab		3		+BME 490 Biomed Eng Cap Design II	4		
C. Natural Sciences (8 hrs)		_ 4	<u> </u>	CHM 341 El Physical Chemistry	3		
SQ: PHY 121/122 Physics I/Lab I	Satisfied by		ses	MAT 343 Applied Linear Algebra	3		
SQ: PHY 132 Physics Lab II	in Mo	ajor		Technical Electives (6 hrs)			
D. Mathematical Studies (6 hrs)		La					
CS: CSE 100 Prin of Prog C++	Satisfied by		ses				
MA: MAT 275 Mod Diff. Equ.	in Mo	ajor		Sub Total (IV)			
Sub Total (II)					45	• 1	
III. Required Lower Division Courses (56)	hrs)			Total Upper Division (minim + A minimum grade of "C" (2.0) required	um 45 requ	uirea)	
A. Natural Sciences/Basic Sciences (20 hrs)				# Designates upper division course in the Major:	4 minimum	cumulative	
+BME 111 Engr Persp on Bio Sys (3) + BMI				GPA of 2.00 required	11 minimum	Cumulative	
194 ST: En Per Bio Sys Lb(1) <i>OR</i>	4			Designates a skill-set course			
SQ: BIO 188 – General Biology II (4)				¹ Must complete both BME 413 & 423 to receive I			
SQ: CHM 114 or 116 Gen Chem ² ,	4			² CHM 113 is prerequisite and does not apply tow	ard degree c	redit	
CHM 231/233 Elem/Gen Organ Chem	3			Graduation Requirements			
CHM 235/237 Elem/Gen Organ Chem Lab	1			Regular Curriculum – 120 Hours			
SQ: PHY 121 Physics I	3			120 110 113			
SQ: PHY 122 Physics Lab I	1			Semester Hour Summary Hrs/A	$SU \mid Tr H$	Irs Total	
SQ: PHY 131 Physics II	3			I. English Proficiency			
SQ: PHY 132 Physics Lab II	1			II. General Requirements			
•	-	1		III. Required Lower Division			
Submitted by		D :		IV. Required Upper Division			
Student Signature		Date		Total Program Hours			
ApprovedAdvisor		Date	_				