2007-08 Curriculum Check Sheels				ruud	on School of I	Engineerii
Name			Major: Engineering Special Programs Degree BSE			
ASU ID				Concentration: Premedical Engineering		
Anticipated Grad. Date				AGEC-A, AGEC-B, AGEC-S; Con	npleted: 🗆 Yes	s □ No
ASU Requirement for all incoming Freshmer	n				Hrs Cr	Trans
ASU 101 The ASU Experience	1 cred	it		B. Mathematical Studies (9 hrs)	ASU Tr	From G
•				MAT 265 Calc for Engrs I	3	
I. English Proficiency (6 hrs)	Hrs Ci		C	MAT 266 Calc for Engr. II	3	
(University requirement – "C" min required) +ENG 101 / 107 First-Year Comp (3) and	ASU T	Tr From	Gr	MAT 275 Mod Diff Eq (MA)	3	
+ENG 101 / 107 First- Fear Comp (3) and +ENG 102 / 108 First-Year Comp (3)				C. Lower Division Engrg (21 hrs)		
Or, if eligible (see Catalog for eligibility)				+BME 100 Intro to Bioengr (CS)	3	
+ENG 105 Adv First-Year Comp (3) and				+BME 200 Conserv Princip in Bio	3	
An Applicable Elective (3) – see Department				+BME 235 Physiology for Engineers (L)	4	
Sub Total (I)				CSE 100 Principles of Prog C++ (CS)	3	
· · · · · · · · · · · · · · · · · · ·				EEE 202 Circuits I	4	
II. General Requirements (15 hrs) (See Catal		roved coi	urses)	MAE 212 Engineering Mechanics	4	
A. Humanities & Social Sciences (15 hrs min, (Required: 1 course upper division; plus a minimum of two courses that satis,		ess areas: cul	tural (C)	Sub Total (III)		
global (G), and historical (H). Double counting is permissible between HU of	or SB and the av	vareness area	s and	# IV. Required Upper Division Courses (4	41 hrs)	
also within the awareness areas.) Humanities/Fine Arts (6 hrs min)(HU)				+BME 300 Bioengr Product Design	3	
11umanues/1 inc 11 is (0 in 5 min)(110)				+BME 318 Biomaterials	4	
				+BME 331 Bioengineering Transport I	3	
				+BME 350 Signals & Sys for Bio	3	
Social/Behavioral Sciences (6 hrs min)(SB)				+BME 370 Microcomputer Apps in Bio	3	
Social Beliavioral Sciences (6 in 5 initi) (5B)				+BME 413 Bio Instrumentation (L) ¹	3	
				+BME 417 Biomed Eng Cap Design I	4	
				+BME 423 Bio Instrumentation Lab (L) ¹	1	
Awareness Areas:				+BME 434 Applications in Bio <u>OR</u>		
Cultural				+BME 416 Biomechanics OR	3	
Global				+BME 419 Biocontrol Systems		
Historical				+BME 490 Biomed Eng Cap Design II	4	
B. Literacy/Critical Inquiry (6 hrs)				CHM 341 El Physical Chemistry	3	
I · RMF 235 Physiology for Rio				IEE 380 Prob and Stats for Eng (CS)	3	
L: BME 413 Bio Instrumentation ¹	Satisfied		rses	MAT 343 Applied Linear Algebra	3	
L: BME 423 Bio Instrumentation Lab	in	Major		+Technical Electives (1 hr)		
C. Natural Sciences (8 hrs)						
SQ: PHY 121/122 Physics I + Lab I	Satisfied	by Cour	rses	Sub Total (IV)		
SQ: PHY 131/132 Physics II + Lab II in Major				Total Upper Division (minimum 45 required)		
D. Mathematical Studies (6 hrs)		.		+ A minimum grade of "C" (2.0) required		
CS: CSE 100 Principles of Prog C++	Satisfied	by Cou	rses	# Designates upper division course in the Major	: A minimum c	rumulative
MA: MAT 275 Modern Diff. Eqs		Major		GPA of 2.00 required Designates a skill-set course		
Sub Total (II)		<u> </u>		¹ Must complete both BME 413 & 423 to receive	L credit	
				² Must complete lecture and lab to receive SQ cre		
III. Required Lower Division Courses (58 hrs)				Graduation Requirements		
A. Natural Sciences/Basic Sciences (28 hrs)				Regular Curriculum – 120 Hours		
BIO 188 General Biology II (SQ)	4					l
CHM 113 General Chemistry I (SQ)	4				ASU Tr Hr	rs Total
CHM 116 General Chemistry II (SQ)	4			I. English Proficiency		
CHM 233 Gen Organic Chem I	3			II. General Requirements		
CHM 237 Gen Organic Chem Lab I	1			III. Required Lower Division		
CHM 234 Gen Organic Chem II	3			IV. Required Upper Division		
CHM 238 Gen Organic Chem Lab II	1			Total Program Hours		
PHY 121 Physics I (SQ) ²	3					
PHY 122 Physics Lab I (SQ) ²	1					
PHY 131 Physics II (SO) ²	3					

PHY 132 Physics Lab II (SQ)²