2007-08 Curriculum Check Sheets				T.	unon sen	ooi oj L	nginee	ring
Name				Major: Materials Science and Engineering	<u>z</u> De	gree		_
ASU ID								
				ACEC A ACEC B ACEC S	C 1.	. 17	3.7	
Anticipated Grad. Date				AGEC-A, AGEC-B, AGEC-S;	Completed	: □ Yes	$\square No$)
ASU Requirement for all incoming Freshmen				C. Lower Division Engineering (15 hrs		Hrs Cr ASU Tr	Trans From	Gr
ASU 101 The ASU Experience	1 credit			#MSE 100 Intro to Matls Engr (CS)		3		
I. English Proficiency (6 hrs)	Hrs Cr	Trans		#MSE 211 Intro Mechanics of Matls		3		
(University requirement – "C" min required)	ASU Tr	From	Gr	#MSE 215 Materials Synthesis		3		
+ ENG 101 / 107 First-Year Comp (3) and				+MSE 250 Stuc & Prop of Matls		3		
+ ENG 102 / 108 First-Year Comp (3)				IEE 220 Business & IE		3		
Or , if eligible (see Catalog for eligibility),				Sub Total (III)				
+ ENG 105 Adv First-Year Comp (3) and				IV. Required Upper Division Courses	s (54 hrs)			
An Applicable Elective (3) – see Department				MAT 343 Modern Linear Algebra	(0 1 1111)	3		
Sub Total (I)				#MSE 315 Math Cmp Mthds Matls		3		
II. General Requirements (15 hrs) (See Catalo	g for appro	ved cou	rses)	#MSE 330 Matls Thermo		3		
A. Humanities & Social Sciences (15 hrs min)	4		1 (C)	#MSE 335 Matls Kinetics & Processing	<u> </u>	3		
(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			#MSE 355 Matls Struc & Microstruc		3			
also within the awareness areas.) Humanities, Fine Arts, and Design (6 hrs min)(HU)				#MSE 356 Matls Struc & Microstruc La	ab	1		
Tumunities, Tine Aris, and Design (0 hrs min)	110)			#MSE 358 Intro EMOP		3		
				#MSE 420 Phys Met		3		
				#MSE 421 Phys Met Lab		1		
Social/Behavioral Sciences (6 hrs min)(SB)				#MSE 440 Mechanical Props Matls		3		
Social Denavioral Sciences (6 hrs mar)(SD)		1		#MSE 450 Intro Matls Characterization		3		
				#MSE 451 Intro Matls Char Lab		1		
				#MSE 470 Polymers & Composites		3		
Awareness Areas:				#MSE 471 Ceramics		3		
Cultural				#MSE 482 Materials Design (L)		3		
Global				#MSE 490 Capstone Design (L)		3		
Historical				#Advanced Science Electives (6 hrs)				
B. Literacy/Critical Inquiry (6 hrs)								
	Satisfied b	v Cour	ses in					
# L: MSE 490 Capstone Design	•	Iajor		#Technical Electives (6 hrs)				
C. Natural Sciences/Basic Sciences (8 hrs)				Ī				
<i>SQ</i> : PHY 121/122 Physics I + Lab I	atisfied b	y Cours	ses in					
SQ: PHY 131/132 Physics II + Lab II	M	ajor		Sub Total (IV)				
D. Mathematical Studies (6 hrs)								
# CS: MSE 100 Intro to Matls Engr	atisfied b	y Cours	ses in	Total Upper Division (n	ninimum 4	5 requii	·ed)	
MA: MAT 275 Mod Dif Eqs.	M	ajor		+ A minimum grade of "C" (2.0) required # Designates Major Course: A minimum cu	uman latina CI	24 - 42 0	0	u a d
Sub Total (II)				 Designates Major Course: A minimum cu Designates a skill-set course 	mulalive Gr	A 0J 2.00) requii	rea
III. Required Lower Division Courses (45 hrs)				¹ Must complete lecture and lab to receiv	ve SO cred	it.		
A. Natural Sciences/Basic Sciences (15 hrs)	,							
CHM 114 Chem. for Engineers (SQ)	4			Graduation Requirements				
BME 111 Engr Persp on Bio Sys	3			Regular Curriculum – 120 Hours				
PHY 121 Physics I $(SQ)^{I}$	3							
PHY 122 Physics Lab I (SQ) ¹	1				Hrs/ASU	Tr Hrs	To	tal
PHY 131 Physics II (SQ)	3			I. English Proficiency				
PHY 132 Physics Lab II (SQ) ¹	1			II. General Studies				
B. Mathematical Studies (15 hrs)				III. Required Lower Division				
+MAT 265 Calc for Engrs I	3			IV. Required Upper Division				
+MAT 266 Calc for Engrs II	3			Total Program Hours				
+MAT 267 Calc for Engrs III	3							
MAT 275 Mod Dif Eqs (MA)	3							

Math or Science elective: