2005-04 Curriculum Check Sheel						DC	поот	oj Li	igincerii	$n_{\mathcal{S}}$
Name				_	Major MATERIALS SCI & EN	GINEER	ING	De	egree BS	<u>SE</u>
ASU ID					Area of Study					
Anticipated Grad. Date				_	AGEC-A, AGEC-B, AGEC-S; (Complete	d: :	Yes	 No	
				_		T				
$ \begin{array}{ccc} \text{Pre-Major (Non-Degree) Credits} & & & & & \\ & & & & & \\ \hline \textbf{ASU} & \textbf{T} \end{array} $		_	Trans from	Gr	III. Engineering Core (19 hrs)		Hrs Cr ASU Tr		Trans from	Gr
MAT 170 Precalculus	3				CS: ECE 100 Intro Engineering Design	-	3			
PHY 105 Intro Physics 3			ECE 201 Elec Ntwks	4	1					
I. English Proficiency (6 hrs)					ECE 210 Statics	3	3			
(University requirement - "C" min required	()	1			ECE 313 Intro Def Solids	3	3			
ENG 101 First-Year Comp (3) and					ECE 350 Struc/Prop Matls		3			+
ENG 102 First-Year Comp (3) or, if eligible,					MSE 430 Thermodynamics of Matls		3			+
ENG 105 Adv First-Year Comp (3)					Sub Total (III)		,			
(see Catalog for eligibility requirements)					<i>IV. Major</i> (49 hrs)	(111)				
Sub Total (I)		_					3	1		_
II. General Studies & School Requirements (54 hrs)					CS: ECE 380 Prob/Stat for Engr Prob Slvg					-
(see Catalog for approved courses) A. Humanities & Social Sciences (15 hrs min) (Required: 1 course upper division; 2 courses from the same dept; 2 depts or more represented; plus a minimum of two courses that satisfy three awareness areas: cultural (C)					MSE 111 Challenges in Matls Engrg					_
					MSE 353 Intro Matls Proc & Synth					+
					MSE 354 Exp Matls Synth & Proc					
global (G), and historical (H). Double counting is permissible between HU or SB and the awareness areas and also within the awareness areas.)				ine	MSE 355 Intro Matls Sci & Engr					
Humanities/Fine Arts (6 hrs min) (HU)		1	1	1	MSE 420 Physical Metallurgy	- 3	3			┷
					MSE 421 Phys Metallurgy Lab		1			
					MSE 440 Mech Props Solids	3	3			ــــــ
					MSE 450 X-ray & Electron Diffract	3	3			
Social/Behavioral Sciences (6 hrs min) (SB)				MSE 470 Polymers & Composites	3	3			
ECN 111 or 112 Econ	3			MSE 471 Intro Ceramics		3				
				MSE 490 Capstone Design Project		3				
					Select six hours from the following 4 course	es: ((6)			
Awareness Areas(C,G,H) two courses minimum;	all three a	ireas n	ust be m	et	CHM 325 Analytical Chem (3)					
C/G/H:					CHM 331 Genl Organic Chemistry (3)				
C/G/H:					CHM 341 Elem Phys Chem (3)*					
C/G/H:					PHY 361 Modern Physics (3)					
B. Literacy/Critical Inquiry (6 hrs)					Technical Electives/Area of Study	(12 hrs)			'	
L: ECE 300 Intermed Engrg Des	3									
L: MSE 482 Matls Engr Design	3									
C. Natural Sciences/Basic Sciences (16 hrs	;)	1	1	1	†					+
SQ: CHM 113 Gen Chem	4				-					+
SQ: CHM 116 Gen Chem	4				Sub Total (IV)					
SQ: PHY 121 Physics I	3				*CHM331 is prereq for CHM341; if CHM341 is	selected. C	<i>HM</i> 33	1 must a	ılsa he selei	cted.
SQ: PHY 122 Phys Lab I	1				emizor is presequer comize it, if comize it is	serection, C.		1 1111111111	and the perce	
SQ: PHY 131 Physics II	3				Graduation Requirements				rs	
SQ: PHY 132 Phys Lab II	1				Regular Curriculum - 128 hrs	(1	Min re	equired	: 50 hrs)	
D. Mathematical Studies (17 hrs)	-		+	1	(plus pre-major (non-degree) credits) Semester Hour Summary	Hrs/ASU	7	Tr Hrs	Total	
MA: MAT 270 Calc I	4				I. English Proficiency	1173/1150	1	11113	Total	
MA: MAT 271 Calc II	4				II. General Studies					
MA: MAT 272 Calc III	4				III. Engineering Core				+	
MA: MAT 274 Elem Diff Eq	3									
MAT 242 Elem Lin Alg	2				IV. Major				+	
Sub Total (II)					Total Program Hours					
					ApprovedAdvisor				Date	
Submitted byStudent Signature			Date						Duie	
Student Signature			рате		Approved	nair			Date	
1/02 11					•				Dute	
1/03 mlh					Approved				Date	
					Dean				Dute	