

Name _____

Major MATERIALS SCI & ENGINEERING Degree BSE

ASU ID _____

Area of Study _____

Anticipated Grad. Date _____

AGEC-A, AGE C-B, AGE C-S; Completed: € Yes € No

Pre-Major (Non-Degree) Credits	Hrs Cr		Trans from	Gr
	ASU	Tr		
MAT 170 Precalculus	3			
PHY 105 Intro Physics	3			

I. English Proficiency (6 hrs)

(University requirement - "C" min required)

ENG 101 First-Year Comp (3) and ENG 102 First-Year Comp (3) or, if eligible, ENG 105 Adv First-Year Comp (3) (see Catalog for eligibility requirements)				
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Sub Total (I) _____

II. General Studies & School Requirements (54 hrs)

(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), 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)

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

ECN 111 or 112 Econ	3			

Awareness Areas

C/G/H:				
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C/G/H:				
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C/G/H:				
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B. Literacy/Critical Inquiry (6 hrs)

L: ECE 300 Intermed Engrg Des	3			
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L: MSE 482 Matls Engr Design	3			
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C. Natural Sciences/Basic Sciences (16 hrs)

SQ: CHM 113 Gen Chem	4			
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SQ: CHM 116 Gen Chem	4			
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SQ: PHY 121 Physics I	3			
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SQ: PHY 122 Phys Lab I	1			
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SQ: PHY 131 Physics II	3			
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SQ: PHY 132 Phys Lab II	1			
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D. Mathematical Studies (17 hrs)

MA: MAT 270 Calc I	4			
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MA: MAT 271 Calc II	4			
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MA: MAT 272 Calc III	4			
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MA: MAT 274 Elem Diff Eq	3			
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MAT 242 Elem Lin Alg	2			
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Sub Total (II) _____

Submitted by _____

Student Signature

Date

2/02 mlh

III. Engineering Core (19 hrs)

	Hrs Cr		Trans from	Gr
	ASU	Tr		
CS: ECE 100 Intro Engineering Design	3			
ECE 201 Elec Ntwks	4			
ECE 210 Statics	3			
ECE 313 Intro Def Solids	3			
ECE 350 Struc/Prop Matls	3			
MSE 430 Thermodynamics of Matls	3			

Sub Total (III) _____

IV. Major (49 hrs)

CS: ECE 380 Prob/Stat for Engr Prob Slvg	3			
MSE 111 Challenges in Matls Engrg	1			
MSE 353 Intro Matls Proc & Synth	3			
MSE 354 Exp Matls Synth & Proc I	2			
MSE 355 Intro Matls Sci & Engr	3			
MSE 420 Physical Metallurgy	3			
MSE 421 Phys Metallurgy Lab	1			
MSE 440 Mech Props Solids	3			
MSE 450 X-ray & Electron Diffract	3			
MSE 470 Polymers & Composites	3			
MSE 471 Intro Ceramics	3			
MSE 490 Capstone Design Project	3			
Select six hours from the following 4 courses:	(6)			
CHM 325 Analytical Chem (3)				
CHM 331 Genl Organic Chemistry (3)				
CHM 341 Elem Phys Chem (3)*				
PHY 361 Modern Physics (3)				

Technical Electives/Area of Study (12 hrs)

Sub Total (IV) _____

*CHM331 is prereq for CHM341; if CHM341 is selected, CHM331 must also be selected.

Graduation Requirements

Regular Curriculum - 128 hrs

(plus pre-major (non-degree) credits)

Total Upper Div. Hrs _____

(Min required: 50 hrs)

Semester Hour Summary

	Hrs/ASU	Tr Hrs	Total
I. English Proficiency			
II. General Studies			
III. Engineering Core			
IV. Major			
Total Program Hours			

Approved _____

Advisor

Date

Approved _____

Department Chair

Date

Approved _____

Dean

Date