

Name _____

Major MECHANICAL ENGINEERING Degree BSE

ASU ID _____

AGEC-A, AGECE-B, AGECE-S; Completed: Yes No

Pre-Major (Non-Degree) Credits	Hrs Cr		Trans from	Gr
	ASU	Tr		
CHM 113 Gen Chem I	4			
MAT 170 Precalculus	3			
PHY 105 Intro Physics	3			

I. English Proficiency (6 hrs)

(University requirement - "C" (2.00) min grade 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)				

Sub Total (I)

II. General Studies & School Requirements (53 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) two courses minimum; all three areas must be met

C/G/H:				
C/G/H:				
C/G/H:				

B. Literacy/Critical Inquiry (6 hrs)

+ L: ECE 300 Intermed Engrg Design	3			
++ L: MAE 490 Projects Design Develop	3			

C. Natural Sciences/Basic Sciences (15 hrs)

+ SQ: CHM 114 or 116 Chem	4			
+ SQ: PHY 121 Physics I	3			
+ SQ: PHY 122 Phys Lab I	1			
+ SQ: PHY 131 Physics II	3			
+ SQ: PHY 132 Phys Lab II	1			
PHY 361 Mod Phys	3			

D. Mathematical Studies (17 hrs)

+ MA: MAT 270 Calc I	4			
+ MA: MAT 271 Calc II	4			
+ MA: MAT 272 Calc III	4			
+ MA: MAT 274 El Diff Eq	3			
+ MAT 242 Elem Lin Alg	2			

Sub Total (II)

III. Engineering Core (22 hrs)

	Hrs Cr		Trans from	Gr
	ASU	Tr		
+ CS: ECE 100 Intro Engrg Des	3			
+ ECE 201 Elec Ntwks	4			
+ ECE 210 Statics	3			
+ ECE 212 Dynamics	3			
+ ECE 313 Intro Def Solids	3			
+ ECE 340 Thermo	3			
+ ECE 350 Struct Prop Matls	3			

Sub Total (III)

++ IV. Major (47 hrs)

ECE 384 Num Mthds for Engrs	4			
MAE 317 Dyn Sys/Contr	3			
MAE 319 Meas & Data Analy	3			
MAE 371 Fluid Mech	3			
MAE 388 Heat Transfer	3			
MAE 422 Mech of Matls	4			
MAE 441 Princ of Design	3			
MAE 443 Engr Design	3			
MAE 491 Exp Mech Engr	3			

Mechanical Systems Design (3 hrs) Select One:

MAE 341, 442, 447				
-------------------	--	--	--	--

Thermal Systems Design (3 hrs) Select One:

MAE 382, 433, 434, 435, 446				
-----------------------------	--	--	--	--

Technical Electives/Area of Study (12 hrs)

Sub Total (IV)

Graduation Requirements:

Total Upper Division _____ (min 50 required)

Regular Curriculum - 128 Hours (plus pre-major (non-degree) credits)

+ "C"(2.00) minimum grade required

++ A GPA of 2.00 or higher is required for all courses listed under the Major plus MAE 490.

Semester Hour Summary

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

Submitted by _____
Student Signature Date

Approved _____
Advisor Date

Approved _____
Dean Date

