

Name _____

 Major MECHANICAL ENGINEERING

 Degree BSE

ASU ID _____

 AGECE-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)				
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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) 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 491 Exp Mech Engrg	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 (18 hrs)

+ MA: MAT 270 Calc I	4			
+ MA: MAT 271 Calc II	4			
+ MA: MAT 272 Calc III	4			
+ MA: MAT 275 Mod Diff Eq	3			
+ MAT 343 App Lin Alg	3			

Sub Total (II) _____

III. Engineering Core (20 hrs)

	Hrs Cr		Trans from	Gr
	ASU	Tr		
+ CS: ECE 100 Intro Engrg Des	3			
+ ECE 201 Elec Ntwks	4			
+ ECE 214 Mechanics	4			
+ ECE 313 Intro Def Solids	3			
+ ECE 340 Thermo	3			
+ ECE 350 Struct Prop Matls	3			

Sub Total (III) _____

++ IV. Major (48 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 394 CAE I	1			
MAE 422 Mech of Matls	4			
MAE 441 Princ of Design	3			
MAE 488 ME Design I	3			
MAE 489 ME Design II	3			

Mechanical Systems Design (3-4 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 (11-12 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 in engineering core courses that are prerequisite to any course in the major
++ A GPA of 2.00 or higher is required for all courses listed under the Major plus MAE 491.
Semester Hour Summary

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

10/05 mlh

 Submitted by _____
Student Signature
Date

 Approved _____
Advisor
Date

 Approved _____
Dean
Date

