

Name \_\_\_\_\_

Major: Industrial Engineering

Degree BSE

ASU ID \_\_\_\_\_

Anticipated Grad. Date \_\_\_\_\_

AGEC-A, AGECE-B, AGECE-S;

Completed:  Yes  No

<b>ASU Requirement for all incoming Freshmen</b>			
	Hrs Cr	Trans	Gr
ASU 101 The ASU Experience	ASU Tr	From	
ASU 101 The ASU Experience	1 credit		
<b>I. English Proficiency (6 hrs)</b> <i>(University requirement – "C" min required)</i>			
+ENG 101 / 107 First-Year Comp (3) and			
+ENG 102 / 108 First-Year Comp (3)			
<b>Or</b> , if eligible (see Catalog for eligibility),			
+ENG 105 Adv First-Year Comp (3) and			
An Applicable Elective (3) – see Department			
Sub Total (I) _____			

**II. General Requirements (15 hrs)** *(See Catalog for approved courses)*

**A. Humanities & Social Sciences (15 hrs min)**

*(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 also within the awareness areas.)*

**Humanities, Fine Arts, and Design (6 hrs min)(HU)**

	Hrs Cr	Trans	Gr
	ASU Tr	From	

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

	Hrs Cr	Trans	Gr
	ASU Tr	From	
ECN 211 Macroeconomics Prin (SB)	3		

**Awareness Areas:**

	Hrs Cr	Trans	Gr
	ASU Tr	From	
<b>Cultural</b>			
<b>Global</b>			
<b>Historical</b>			

**B. Literacy/Critical Inquiry (6 hrs)**

*Satisfied by required courses in Major*

**C. Natural Sciences/Basic Sciences (8 hrs)**

*Satisfied by required courses in Major*

**D. Mathematical Studies (6 hrs)**

*Satisfied by required courses in Major*

Sub Total (II) \_\_\_\_\_

**III. Required Lower Division Courses (54 hrs)**

**A. Natural Sciences/Basic Sciences (15 hrs)**

	Hrs Cr	Trans	Gr
	ASU Tr	From	
BME 111 Engr Persp on Bio Sys	3		
CHM 114 or 116 <sup>1</sup> Chemistry (SQ)	4		
PHY 121 University Physics I (SQ) <sup>2</sup>	3		
PHY 122 Univ. Physics Lab I (SQ) <sup>2</sup>	1		
PHY 131 University Physics II (SQ) <sup>2</sup>	3		
PHY 132 Univ. Physics Lab II (SQ) <sup>2</sup>	1		

**B. Mathematical Studies (14 hrs)**

	Hrs Cr	Trans	Gr
	ASU Tr	From	
MAT 242 Elem. Linear Algebra	2		
+ MAT 265 Calc for Engrs I	3		
+ MAT 266 Calc for Engrs II	3		
MAT 267 Calc for Engrs III	3		
MAT 275 Mod Diff. Eqs (MA)	3		

**C. Lower Division Engineering (25 hrs)**

	Hrs Cr	Trans	Gr
	ASU Tr	From	
CEE 211 Engr Mechanics: Stat & Dyn <b>OR</b>	4		
MAE 212 Engr Mechanics			
CSE 110 Prin. of Prog. with Java (CS)	3		
CSE 205 Con of CS & Data Struc(CS)	3		
EEE 202 Circuits I	4		
+IEE 100 Intro Engr Dsgn For IE (CS)	3		
+IEE 210 Intro to Indust Engr	2		
+IEE 220 Business & Ind. Engr.	3		
MSE 250 Structure / Prop. of Matter	3		
Sub Total (III) _____			

**IV. Required Upper Division Courses (45 hrs)**

	Hrs Cr	Trans	Gr
	ASU Tr	From	
+IEE 300 Econ. Analysis. For Engrs	3		
+IEE 305 Information Systems Eng. (CS)	3		
+IEE 368 Facilities Analysis & Dsgn (L) <b>OR</b>	3		
+IEE 369 Work Analysis & Design (L)			
+IEE 376 Deterministic Operation Res. (CS)	3		
+IEE 380 Prob./Stat. for Engr Prob (CS)	3		
+IEE 385 Engr. Statistics With Probability (CS)	3		
+IEE 461 Production Control	3		
+IEE 470 Stochastic Oper Research	3		
+IEE 474 Quality Control (CS)	3		
+IEE 475 Sim Stochastic Syst (CS)	3		
+IEE 490 Project in Design (L)	3		

**Career-Focused Area Electives (9 hrs) See Dept**

	Hrs Cr	Trans	Gr
	ASU Tr	From	

**+IE Technical Elective (3 hrs) See Dept**

	Hrs Cr	Trans	Gr
	ASU Tr	From	

Sub Total (IV) \_\_\_\_\_

**Total Upper Division \_\_\_\_\_ (minimum 45 required)**

+ A minimum grade of "C" (2.0) required

*Designates a skill-set course*

<sup>1</sup> CHM 113 is prerequisite and does not apply toward degree credit

<sup>2</sup> Must complete lecture and lab to receive SQ credit.

**Graduation Requirements:**

*Regular Curriculum – 120 Hours*

<b>Semester Hour Summary</b>	Hrs/ASU	Tr Hrs	Total
I. English Proficiency			
II. General Studies			
III. Required Lower Division			
IV. Required Upper Division			
<b>Total Program Hours</b>			