

Name \_\_\_\_\_

Major: Chemical Engineering

Degree BSE

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

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

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

<b>I. English Proficiency (6 hrs)</b> <i>(University requirement – "C" min required)</i>	Hrs ASU	Cr Tr	Trans From	Gr
+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	Tr	Trans	Gr

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

Hrs	Cr	Tr	Trans	Gr

*Awareness Areas*

*Cultural*

*Global*

*Historical*

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

# L: CHE 352 Transport Lab

*Satisfied by Courses in  
Major*

# L: CHE 462 Process Design

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

SQ: CHM 113 Gen Chem I

*Satisfied by Courses in  
Major*

SQ: CHM 116 Gen Chem II

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

#CS: CHE 194 ST: Intro to Chem Engr

*Satisfied by Courses in  
Major*

MA: MAT 275 Modern Diff Eq.

Sub Total (II)

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

**A. Natural Sciences/Basic Sciences (25 hrs)**

Course	Hrs	Cr	Tr	Trans	Gr
SQ: CHM 113 Gen Chem I	4				
SQ: CHM 116 Gen Chem II	4				
CHM 233 Gen Organic Chem I	3				
CHM 234 Gen Organic Chem II	3				
CHM 237 Gen Organic Chem I Lab	1				
SQ: PHY 121 Physics I	3				
SQ: PHY 122 Physics Lab I	1				
SQ: PHY 131 Physics II	3				
Bio-Science Elective : approved list	3				

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

Course	Hrs	Cr	Tr	Trans	Gr
MAT 242 Elem Linear Algebra	2				
MA: MAT 275 Mod Diff Eq.	3				
MAT 294 ST: Calc for Engrs I	3				
MAT 294 ST: Calc for Engrs II	3				

Course	Hrs	Cr	Tr	Trans	Gr
(Mathematical Studies continued)					
MAT 294 ST: Calc for Engrs III	3				
<b>C. Lower Division Engineering (15 hrs)</b>					
# CS: CHE 194 ST: Intro to Chem Engr	3				
# CHE 211 Intro to Chemical Processing	3				
# CHE 231 Intro to Trans Phen Fluids	3				
IEE 220 Business and IE	3				
200 Level Engineering Elective	3				
Sub Total (III)					

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

Course	Hrs	Cr	Tr	Trans	Gr
CHE 334 Heat Mass Trans	3				
CHE 342 Thermodynamics	3				
L: CHE 352 Transport Lab	3				
CHE 432 Principles of Design	3				
CHE 433 Modern Separations	3				
CHE 442 Reactor Design	3				
CHE 451 CHE Lab	3				
CHE 461 Process Control	3				
L: CHE 462 Process Design	3				
CS: MAE 384 Num Math Engrs	3				

Students must complete a total of 15 hours of upper division technical electives in the natural sciences, math, or engineering. These must include two three-semester-hour chemistry courses; a three semester-hour natural science or materials course; and a three-semester hour chemical engineering course.

*Advanced Chem Electives (min 6 hrs)*

Hrs	Cr	Tr	Trans	Gr

*Science/Materials Elective (min 3 hrs)*

Hrs	Cr	Tr	Trans	Gr

*Chem Eng Tech Electives min (6 hrs)*

Hrs	Cr	Tr	Trans	Gr

Sub Total (IV)

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

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

# Designates course in the Major: A minimum cumulative GPA of 2.00 required

*Designates a skill-set course*

**Graduation Requirements**

*Regular Curriculum – 120 Hours*

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

Submitted by \_\_\_\_\_ Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Approved \_\_\_\_\_ Advisor \_\_\_\_\_ Date \_\_\_\_\_