ARIZONA STATE UNIVERSITY

2007-08 Curriculum Check Sheets ***Fulton School of Engineering***

Name _____ Major: Chemical Engineering Degree BSE

ASU ID _____

Anticipated Grad. Date _____ *AGEC-A, AGEC-B, AGEC-S;* *Completed: □ Yes □ No*

ASU Requirement for all incoming Freshmen				
ASU 101 The ASU Experience	1 credit			

I. English Proficiency (6 hrs) *(University requirement – "C" min required)*	Hrs Cr ASU	Tr	Trans From	Gr
+ENG 101 / 107 First-Year Comp (3) and				
+ENG 102 / 108 First-Year Comp (3)				
Or, 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)				
Social/Behavioral Sciences (6 hrs min)(SB)				
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:* CHE100 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)*					
CHM 113 Gen Chem I *(SQ)*	4				
CHM 116 Gen Chem II *(SQ)*	4				
CHM 233 Gen Organic Chem I	3				
CHM 234 Gen Organic Chem II	3				
CHM 237 Gen Organic Chem I Lab	1				
PHY 121 Physics I	3				
PHY 122 Physics Lab I	1				
PHY 131 Physics II	3				
Bio-Science Elective (*see approved list)*	3				

B. Mathematical Studies *(14 hrs)*	Hrs Cr ASU	Tr	Trans From	Gr
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 Eq *(MA)*	3			
C. Lower Division Engineering *(15 hrs)*				
#CHE 100 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)

CHE 334 Heat Mass Trans	3			
CHE 342 Thermodynamics	3			
CHE 352 Transport Lab *(L)*	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			
CHE 462 Process Design *(L)*	3			
MAE 384 Num Math Engrs *(CS)*	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 Chemistry Electives *(min 6 hrs)*				
Science/Materials Elective *(min 3 hrs)*				
Chemical Engrg Tech Electives *(min 6 hrs)*				

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*

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