

This model is in effect for all students entering the program after 9/1/2008

Name: _____

PROGRAM GUIDE, B.S., Chemical Engineering

- ◆ All students are required to take a minimum combined total of 42 semester hours of General Education and Rowan Experience courses. *(Italics indicate prerequisites)*

GENERAL EDUCATION REQUIREMENTS (choice from Approved Gen Ed Guide)				
Transfer	Rowan	Hegis #	COMMUNICATIONS BANK <i>minimum 6 s.h.</i>	6-7 S.H.
		COMP01.111	College Composition I (3 s.h.) or	3-4 s.h.
		COMP01.105	Integrated College Composition I (4 s.h.)	
		ENGR01.201	Sophomore Clinic I	4 s.h.
		Hegis #	SCIENCE/MATHEMATICS BANK <i>minimum 7 s.h.</i>	7 S.H.
			Math/Science (choice from Approved General Education Courses)	3
			Lab Science (choice from Approved General Education Courses)	4
		Hegis #	SOCIAL & BEHAVIORAL SCIENCES BANK <i>minimum 6 s.h.</i>	6 S.H.
		Hegis #	HISTORY/HUMANITIES/LANGUAGE BANK <i>minimum 6 s.h.</i>	9 S.H.
		Hegis #	NON-PROGRAM COURSES <i>minimum 6 s.h.</i>	6 S.H.

ROWAN EXPERIENCE REQUIREMENTS (choose from Approved RE Guide)				
(Can be taken as a Gen Ed OR within the major requirements.)				
Transfer	Rowan	Hegis #		
		ENGR 01202	Sophomore Clinic II	4 s.h.
			Artistic/Creative Experience	3 s.h.
CHECK TO BE SURE THE FOLLOWING REQUIREMENTS ARE COMPLETED				
			Broad Based Literature Course (LIT)	s.h.
			Writing Intensive Course (WI)	
			Multicultural/Global Course (M/G)	
			Lab Science Course (LAB)	
			Computer Competency Exam or Computer Literacy Course	
			Rowan Seminar (RS) – Freshmen Only	
Engineering students only:				
Sophomore Engineering Clinic I fulfills the General Education requirement College Composition II and Sophomore Engineering Clinic II fulfills the Rowan Experience requirement Public Speaking.)				

- ◆ **NOTE:** *M/G, LIT, ACE, WI and RS courses, if taken within the major program of study, CAN NOT COUNT towards the minimum total of Gen Ed 42 credits.*
- ◆ This information has been provided by the department listed above as of the date listed below and is subject to change.
- ◆ To declare this major go to the CAP Center in Savitz Hall.
- ◆ *Students should consult with their program advisor for suggested General Education and Rowan Experience courses.*

B.S. in Chemical Engineering**Student Name** _____

HEGIS #	COURSE NAME	S.H.	PREREQUISITES	s.h.
Core Requirements				
COMP01.111	College Composition I			
MATH01.140	Accelerated Calculus I			
MATH01.141	Accelerated Calculus II			
MATH01.235	Math for Engineering Analysis I	4 s.h.		
MATH01.236	Math for Engineering Analysis II	4 s.h.		
CHEM06.105	Adv. College Chemistry I			
CHEM06.106	Adv. College Chemistry II			
CHEM07.200	Organic Chemistry I	4 s.h.		
ECON04.102	Microeconomics		(This course can also count as a Social and Behavioral Sciences General Education course.)	
PHYS02.200	Physics I			
Computer Programming Elective: Choose one of:				
CS04.103	Computer Science and Programming			
	OR			
CS01.104	Intro to Scientific Programming			
	OR			
CS01.102	Introduction to Programming			
BIOL01.210	Biological Systems and Applications			
ENGR01.101	Freshman Engineering Clinics I.	2 s.h.	(This course can also fulfill the Rowan Seminar requirement.)	
ENGR01.102	Freshman Engineering Clinics II	2 s.h.		
ENGR01.201	Sophomore Engineering Clinic I	4 s.h.	(This course can also fulfill the General Education requirement College Composition II.)	
ENGR01.202	Sophomore Engineering Clinic II	4 s.h.	(This course can also fulfill the Rowan Experience Public Speaking requirement.)	
CHE06.201	Principles Chemical Processes I	2 s.h.		
CHE06.302	Principles Chemical Processes II	2 s.h.		
ENGR01.341	Fluid Mechanics I	2 s.h.		
CHE06.309	Process Fluid Transport	2 s.h.		
CHE06.311	Heat Transfer Processes	2 s.h.		
CHE06.312	Separations Processes I	2 s.h.		
CHE06.310	Chemical Engineering Thermodynamics I	3 s.h.		
CHE06.315	Chemical Engineering Thermodynamics II	3 s.h.		
ENGR01.301	Junior Engineering Clinics I	2 s.h.		
ENGR01.302	Junior Engineering Clinics II	2 s.h.		
ENGR01.281	Materials Science	2 s.h.		
CHE06.316	Chemical Reaction Engineering	4 s.h.		
CHE06.403	Unit Op Exp Design & Analysis	2 s.h.		
CHE06.404	Unit Operations Lab II	2 s.h.		
CHE06.405	Process Dynamics and Control	3 s.h.		
ENGR01.401	Senior Engineering Clinics I	2 s.h.		
ENGR01.402	Senior Engineering Clinics II	2 s.h.	(This course can also fulfill the Rowan Experience Writing Intensive requirement.)	
CHE06.401	Chemical Process Component Design	4 s.h.		
CHE06.406	Chemical Plant Design	3 s.h.		
	Approved Chemical Engineering Electives I and II	6 s.h.		
	Approved Adv. Chemistry Elective I and II	6 s.h.		

Total Credits in Program**131 S.H.**