

This is a new program that requires a student to take 3 summer courses before their first semester at Rowan. These courses are given in Rows 30&31					
CHEMICAL ENGINEERING - 4 year Transfer Student Guide 11/1/08					
This is only a guide and the chair of chemical engineering must approve all courses					
Ideal FIRST YEAR at Community College					
FALL			SPRING		
Composition I	3		Computer Programming Course	3	
Calculus I	4		Calculus II	4	
Chemistry I	4		Chemistry II	4	
Technical Elective (Introduction to Engineering or after taking Physics I with calc, Physics II with calc)	2		Physics I (<i>Calc required</i>)	4	
General Education	3		Composition II	3	
Total	16		Total	18	
SECOND YEAR at Rowan and Community College					
FALL			SPRING		
Public Speaking or General Education Elective (HHL)	3		Public Speaking or General Education Elective (HHL)	3	
Calculus III	4		Ordinary Differential Equations (ODE)	4	
Organic Chemistry I	4		Organic Chemistry II	3	
Biology I	4		Intro to Microbiology, Biochemistry or Biology II (These 4 hours will satisfy Freshman Engineering Clinic II and the Technical Portion of Sophomore Engineering Clinic 2 hours)	4	
			Linear Algebra	3	
Total	15		Total	17	
Summer at Rowan Starting 2009					
Principles Chemical Processes I CHE06.201(Taken at Rowan)	2		Principles Chemical Processes II CHE06.302(Taken at Rowan)	2	
Fluid Mechanics I ENGR01.341(Taken at Rowan)	2				
THIRD YEAR at Rowan					
FALL			SPRING		
Chemical Engineering Thermodynamics I CHE06.310	3		Chemical Engineering Thermodynamics II CHE06.315	3	
Separation Processes I CHE06.312	2		Separation Processes II CHE06.314	4	
Process Fluid Transport CHE06.309	2		Chemical Reaction Engineering CHE06.316	4	
Junior Engineering Clinic I ENGR01.301	2		Junior Engineering Clinic II ENGR01.302	2	
Heat Transfer Processes CHE06.311	2		General Education (_____)	3	
Material Science ENG01.281	2				
Microeconomics ECON04.102	3				
Total	16		Total	16	
FOURTH YEAR at Rowan					
FALL			SPRING		
Chemical Process Component Design CHE06.401	4		Chemical Plant Design CHE06.406	3	
Unit Operations Experimental Design & Analysis CHE06.403	2		Unit Operations Lab CHE06.404	2	
Approved Advanced Chemistry Elective II	3		Process Dynamics & Control CHE06.405	3	
Approved Chemical Engineering Elective I CHE06.	3		Approved Chemical Engineering Elective II CHE06.____	3	
Senior Engineering Clinic I ENGR01.401	2		Senior Engineering Clinic II ENGR01.402	2	
General Education (_____)	3		General Education (_____)	3	
Total	17		Total	16	
TOTAL	131				
Notes: * Industrial Organic Chemistry will be scheduled as the default choice					
Explanation of General Education Requirements					
http://www.rowan.edu/provost/registrar/forms/Gen%20Ed%20and%20RE%20AY08-09%20-web.pdf					
Engineering Majors					
Artistic and Creative Experience	ACE				
Social and Behavioural Sciences	SBS				
History, Humanities and Language	HHL-1				
History, Humanities and Language	HHL-2				
Broad based literature designated course. This is part of one of the above general education courses	LIT				
Multicultural/Global designated course. This is part of one of the above general education courses	MIG				

