

**CHEMICAL ENGINEERING DEGREE AUDIT - 5 year (2 at community College and 3 at Rowan)**

FALL	FIRST YEAR		Equivalent
	Equivalent	SPRING	
Composition I COMP01.111	3	Intro Prgrm CS01.102 (3 CR) OR Intro to Sci Prog CS01.104 (3 CR) OR Comp Sci & Prgm. CS04.103 (4 CR)	3
Calculus I MATH01.130	4	Calculus II MATH01.131	4
Advanced College Chemistry I CHEM06.105	4	Advanced College Chemistry II CHEM06.106	4
		Replaced with intro to engineering course or approved technical elective (e.g. microbiology etc.)	
Fresh. Engineering Clinic I ENGR01.101	2	Fresh. Engineering Clinic II ENGR01.102	2
<a href="#">General Education ( See Cell A50 )</a>	3	Introductory Mechanics PHYS02.200	4
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

FALL	SECOND YEAR		Equivalent
	Equivalent	SPRING	
Principles Chemical Processes I CHE06.201	2	Principles Chemical Processes II CHE06.302	2
Math for Engineering Analysis I MATH01.235	4	Math for Engineering Analysis II MATH01.236	4
Biological Systems & Applications BIOL01.210	4	Fluid Mechanics I ENGR01.341	2
Organic Chemistry I CHEM07.200	4	Approved Advanced Chemistry Elective I <sup>1</sup>	3
Soph. Engineering Clinic I ENGR01.201	4	Soph. Engineering Clinic II ENGR01.202	4
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>15</b>

FALL	THIRD YEAR		Equivalent
	Equivalent	SPRING	
Chemical Engineering Thermodyanmics I CHE06.310	3	Chemical Engineering Thermodyanmics 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	2
Junior Engineering Clinic I ENGR01.301	2	Junior Engineering Clinic II ENGR01.302	2
Heat Transfer Processes CHE06.311	2	<a href="#">General Education ( See Cell A50 )</a>	3
Material Science ENG01.281	2		
		This is sometimes taken at the Community College level	
Microeconomics ECON04.102	3		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>

FALL	FOURTH YEAR		Equivalent
	Equivalent	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
<a href="#">General Education ( See Cell A50 )</a>	3	<a href="#">General Education ( See Cell A50 )</a>	3
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>16</b>

**TOTAL 131**

Notes:  
<sup>1</sup> Industrial Organic Chemistry will be scheduled as the default choice

Explanation of General Education Requirements  
<http://www.rowan.edu/provost/registrar/forms/GenEd%20and%20RE%20AY08-09%20-web.pdf>

**General Education Checklist for Chemical 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	M/G	