

**CHEMICAL ENGINEERING CURRICULUM GUIDE - 120cr**

						Applicable to class entering - Fall 2020 and beyond	
Courses in <b>BOLD</b> require minimum grade of C-							
Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall Semester	17	Fall Semester	14	Fall Semester	14	Fall Semester	16
First Year Engr Clinic 1-RS (ENGR 01101)	2	Sophomore Clinic 1 (ENGR 01201)	4	Junior Clinic (ENGR 01303)	2	Senior Clinic - WI (ENGR 01403)	2
<b>Chemistry I Lecture/Lab (CHEM 06100/CHEM L6100)</b>	4	<b>Calculus III (MATH 01230)</b>	4	Process Fluid Transport (CHE06309)	2	<b>Chem. Process Component Design (CHE06401)</b>	3
<b>Calculus I (MATH 01130)</b>	4	<b>Princ. Chemical Processes I (CHE 06201)</b>	2	<b>ChE Thermodynamics I (CHE06310)</b>	3	Process Dynamics & Control (CHE06405)	3
<b>Introductory Mechanics Lecture/Lab (PHYS 00220/PHYS L0220)</b>	4	Organic Chemistry I Lecture/Lab (CHEM07200/CHEM L7200)	4	Heat Transfer Processes (CHE06311)	3	Approved ChE Elective I (CHE06___)	3
<i>Rowan Core elective (ARTL or HUML)</i>	3			<b>Separation Processes I (CHE06312)</b>	2	Chemical Process Safety (CHE 06407)	2
				Chemical Engr. Modeling (CHE06385)	2	<i>Rowan Core elective (GLBL + LIT)</i>	3
Spring Semester	16	Spring Semester	15	Spring Semester	14	Spring Semester	14
First Year Engr Clinic 2 (ENGR 01102)	2	Sophomore Clinic 2 (ENGR 01202)	4	Junior Clinic (ENGR 01303)	2	Senior Clinic - WI (ENGR 01403)	2
<b>Calculus II (MATH 01131)</b>	4	<b>Math for Engrg Analysis (MATH 01235)</b>	4	Separation Processes II (CHE06314)	3	Chemical Plant Design (CHE06406)	3
<b>Chemistry II Lecture/Lab (CHEM 06101/CHEM L6101)</b>	4	<b>Princ. Chemical Processes II (CHE06202)</b>	2	ChE Thermodynamics II (CHE06315)	3	Unit Opns Lab (CHE06403)	3
College Comp I (COMP 01111)	3	<b>ChE Fluid Mechanics (CHE06241)</b>	2	<b>Chem Reaction Engineering (CHE06316)</b>	4	Approved ChE Elective II (CHE06___)	3
<i>Rowan Core elective (ARTL or HUML)</i>	3	Approved Advanced Chemistry Elective (3 cr min - see GRAD for complete listing) Examples: Industrial Org. Chem (default), Organic Chem II (See complete list in GRAD)	3	ChE Materials (CHE06381)	2	Approved ChE Elective III (CHE06___)	3
						<b>Total Credits</b>	<b>120</b>

**University Requirements**

**The Rowan Core** is the University's general education model, which is based on six literacies and *Rowan Experience*. They reflect contemporary priorities while maintaining a strong liberal arts foundation. The Scientific, Quantitative and Communicative Literacies are fulfilled through your major-specific course requirements. The remaining literacies are satisfied by elective courses you select from designated courses within the literacy.

<b>Artistic (ARTL)</b>	3	<i>Rowan Core Elective</i>
<b>Global (GLBL)</b>	3	<i>Rowan Core Elective</i>
<b>Humanistic (HUML)</b>	3	<i>Rowan Core Elective</i>
<b>Literature Intensive (LIT)</b>		<i>Rowan Experience (may be combined with one of RC electives)</i>