

Chemical Engineering Curriculum Guide

Class of 2027 or earlier

Courses in **bold** require minimum grade of C-

First Year		Sophomore Year		Junior Year		Senior Year	
Fall Semester	17	Fall Semester	14	Fall Semester	14	Fall Semester	17
First Year Eng. Clinic I (ENGR 01101)	2	Sophomore Clinic I (ENGR 01201)	4	Junior Clinic (ENGR 01303)	2	Senior Clinic (ENGR 01403)	2
Chemistry I (CHEM 06100)	4	Calculus III (MATH 01230)	4	Process Fluid Transport (CHE 06309)	2	Chem Process Component Design (CHE 06401)	3
Calculus I (MATH 01130)	4	Principles of Chemical Processes I (CHE 06201)	2	ChE Thermodynamics I (CHE 06310)	3	Process Dynamics & Control (CHE 06405)	3
Introductory Mechanics (PHYS 00220)	4	Organic Chemistry I (CHEM 07200)	4	Heat Transfer Processes (CHE 06311)	3	Unit Operations Lab (CHE 06403)	3
Rowan Core elective (ARTL or HUML)	3			Separation Processes I (CHE 06312)	2	Approved ChE Elective I (CHE 06____)	3
				ChE Modeling (CHE 06385)	2	Rowan Core elective (GLBL + LIT)	3
Spring Semester	16	Spring Semester	15	Spring Semester	14	Spring Semester	13
First Year Eng. Clinic II (ENGR 01102)	2	Sophomore Clinic II (ENGR 01202)	4	Junior Clinic (ENGR 01303)	2	Senior Clinic (ENGR 01403)	2
Calculus II (MATH 01131)	4	Math for Engrg Analysis (MATH 01235)	4	Separation Processes II (CHE 06314)	3	Chemical Plant Design (CHE 06406)	3
Chemistry II (CHEM 06101)	4	Principles of Chemical Processes II (CHE 06202)	2	ChE Thermodynamics II (CHE 06315)	3	Chemical Process Safety (CHE 06407)	2
College Comp I (COMP 01111)	3	ChE Fluid Mechanics (CHE 06241)	2	Chem Reaction Engineering (CHE 06316)	4	Approved ChE Elective II (CHE 06____)	3
Rowan Core elective (ARTL or HUML)	3	Approved Advanced Chemistry Elective	3	ChE Materials (CHE 06381)	2	Approved ChE Elective III (CHE 06____)	3

Total Credits

120

University Requirements

The *Rowan Core* is the University's general education model. It is based on six literacies and *Rowan Experience* (see below) that reflect contemporary priorities while maintaining a strong liberal arts foundation.

Some literacies are incorporated in your major-specific courses. Others you will fulfill by taking elective courses in the required literacy.

☐	Artistic (ARTL)	3	Rowan Core Elective
☐	Global (GLBL)	3	Rowan Core Elective
☐	Humanistic (HUML)	3	Rowan Core Elective
☐	Literature Intensive (LIT)		