Rowan University
Henry M. Rowan College of Engineering

Chemical Engineering Curriculum Guide

Students Entering Sept 2021 and beyond

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

First Year		Sophomore Year		Junior Year		Senior Year	
Fall Semester	**17**	**Fall Semester**	**17**	**Fall Semester**	**14**	**Fall Semester**	**14**
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 lecture/lab (CHEM 06100/CHEM L6100)	4	**Calculus III (MATH 01230)**	4	Process Fluid Transport (CHE06309)	2	**Chem. Process Component Design (CHE06401)**	3
Calculus I (MATH 01130)	4	**Princ. Chemical Processes I (ChE 06201)**	2	**ChE Thermodynamics I (CHE06310)**	3	Process Dynamics & Control (CHE06405)	3
Introductory Mechanics lecture/lab (PHYS 00220/PHYS L0220)	4	Organic Chemistry I (CHEM07200/CHEM L7200)	4	Heat Transfer Processes (CHE06311)	3	Unit Operations Lab (CHE06403)	3
Rowan Core elective (Artistic or Humanistic)	3	*Rowan Core elective (Global + LIT)*	3	**Separation Processes I (CHE06312)**	2	Approved ChE Elective I (CHE06___)	3
				Chemical Eng. Modeling (CHE06385)	2		
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 (CHE06314)	3	Chemical Plant Design (CHE06406)	3
Chemistry II lecture/lab (CHEM 06101/CHEM L6101)	4	**Principles Chemical Processes II (CHE06202)**	**2**	ChE Thermodynamics II (CHE06315)	3	Chemical Process Safety (CHE06407)	2
College Comp I (COMP 01111)	3	**ChE Fluid Mechanics (CHE06241)**	2	**Chem Reaction Engineering (CHE06316)**	4	Approved ChE Elective II (CHE06___)	3
Rowan Core elective (Artistic or Humanistic)	3	Approved Advanced Chemistry Elective *	3	ChE Materials (CHE06381)	2	Approved ChE Elective III (CHE06___)	3
		**Industrial Org. Chem - default choice*					
						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)		