

CIVIL ENGINEERING CURRICULUM GUIDE (120 CR, with ROWAN CORE)

Effective Spring 2020

TOTAL CREDITS 120

Red/Bold - Course grade C- or better

FIRST YEAR			
FALL First Year			SPRING First Year
First Year Engineering Clinic I <i>ENGR 01101</i>	2		First Year Engineering Clinic II <i>ENGR 01102</i>
Calculus I <i>MATH 01130</i>	4		Calculus II <i>MATH 01131</i>
Chemistry I Lecture/Lab <i>CHEM 06100/CHEM L6100</i>	4		Introductory Mechanics Lecture/Lab <i>PHYS 00220/PHYS L0220</i>
Intro. to Scientific Programming <i>CS 01104</i>	3		Composition I <i>COMP 01111</i>
<i>Rowan Core (recommended: Intro to Mapping & GIS <i>GEOG 16160</i>)</i>	3		
Total	16		Total
			13
SECOND YEAR			
FALL Soph			SPRING Soph
Soph. Engineering Clinic I <i>ENGR01201</i>	4		Soph. Engineering Clinic II <i>ENGR01202</i>
Calculus III <i>Math 01230</i>	4		Math for Engineering Analysis <i>MATH01235</i>
Science Elective* (see below for options)	4		Engineering Graphics <i>CEE08102</i>
Statics <i>ENGR 01271</i>	2		Field Surveying <i>CEE08103</i>
Civil Engineering Systems <i>CEE08305</i>	3		Dynamics <i>ENGR 01291</i>
			Solid Mechanics <i>ENGR 01272</i>
Total	17		Total
			16
Cumulative GPA			
THIRD YEAR			
FALL Junior			SPRING Junior
Junior Engineering Clinic I <i>ENGR01303</i>	2		Junior Engineering Clinic I <i>ENGR01303</i>
<i>Rowan Core</i>	3		Water Resources Engineering <i>CEE08342</i>
Fluid Mechanics <i>ENGR 01341</i>	2		Environmental Engineering 1 <i>CEE08311</i>
Materials Science <i>ENGR 01281</i>	2		Transportation Engineering <i>CEE08361</i>
Civil Engineering Materials <i>CEE 08301</i>	2		Geotechnical Engineering <i>CEE08351</i>
Structural Analysis <i>CEE 08382</i>	3		Anal. and Design Steel Frames <i>CEE08383</i>
Total	14		Total
			17
Cumulative GPA			
FOURTH YEAR			
FALL Senior			SPRING Senior
Senior Engineering Clinic I <i>ENGR01.403</i>	2		Senior Engineering Clinic II <i>ENGR01.403</i>
CE Design Project I <i>CEE08.491</i>	2		CE Design Project II <i>CEE08.492</i>
Civil Engineering Practice <i>CEE08.490</i>	1		Civil Engineering Elective
Civil Engineering Elective	3		Civil Engineering Elective
Civil Engineering Elective	3		<i>Rowan Core</i>
<i>Rowan Exp (Literature)</i>	3		
Total	14		Total
			13
TOTAL	120		
*Science Elective			
<i>Gen Biology-Envir Focus (BIOL 01112); Gen Biology-Human Focus (BIOL 01113); Human Anatomy and Physiology I (BIOL 01210); Earth Science Lab I (GEOG 06130); Physical Geology (GEOG 01101); Foundations in Biology for Biomedical Sciences I (MCB 01101); Biophysics II (PHYS 00360)</i>			Depth Requirements (need three)
			<i>Environmental</i>
			<i>Water Resources</i>
			<i>Transportation</i>
			<i>Geotechnical</i>
			<i>4th CEE Elective</i>

ROWAN CORE REQUIREMENTS

Quantitative Literacy - Calculus I
 Scientific Literacy - Chemistry I
 Communicative - Composition I, Sophomore Clinic I & II

Artistic Literacy - suggested: Intro Mapping/GIS
 Global Literacy - *selected by student*
 Humanistic Literacy - *selected by student*

ROWAN EXPERIENCE REQUIREMENTS

Rowan Seminar - satisfied by Freshman Engineering Clinic I
 Broad Based Literature - *selected by student*