

RCSJ-GC ENGINEERING SCIENCE					
Associate in Science (A.S.) - Transfer					
Course Schedule at RCSJ-GC					
FIRST YEAR - Fall Semester			FIRST YEAR - SPRING SEMESTER		
Course #	Course Name	Cr	Course #	Course Name	Cr
CHM 111	General Chemistry I	4	MAT 202	Linear Algebra	3
CSC 205	C++ Programming	4	PHY 201	Physics with Calculus I	4
ENG 101	English Composition I	3	ENR 103	First Year Engineering Clinic II	2
MAT 108	Calculus I	4	ENR 207	Engineering Materials	3
ENR 102	First Year Engineering Clinic I	2	MAT 122	Calculus II	4
				Humanities	3
	Total Credits	17		Total Credits	19
FIRST YEAR - Spring Semester			SECOND YEAR - FALL SEMESTER		
Course #	Course Name	Cr	Course #	Course Name	Cr
ENG 102	English Composition II	3	MAT 205	Differential Equations	4
ENR 201	Sophomore Engineering Clinic I	1		Humanities	3
MAT 221	Calculus III	4	ENR 202	Sophomore Engineering Clinic II	1
PHY 202	Physics with Calculus II	4	ENR 212	Mechanics of Materials	3
ENR 211	Engineering Statistics	3	PHI 104	Ethics	3
	Humanities	3	ENR 213	Dynamics	3
	Total Credits	18		Total Credits	17
CERTIFICATE PROGRAM					
Course #	Course Name	Cr			
SPE 101	Oral Communication	3			
	Total Credits	3			
ROWAN UNIVERSITY - MECHANICAL ENGINEERING					
Courses to take at Rowan University					
BEFORE Transferring into RU					
Course #	Course Name	Cr			
ME 10.310	Intro to TFS*	4			
	Total Credits	4			
THIRD YEAR - Fall Semester			THIRD YEAR - Spring Semester		
Course #	Course Name	Cr	Course #	Course Name	Cr
ENGR 01303	Junior Clinic	2	ENGR 01303	Junior Clinic	2
ME 10330	Fluid Mechanics for ME	3	ME 10335	Heat Transfer for ME	3
ECE 09205	Principles & Apps of ECE for nonmajors	3	ENGR 01410	Finite Element Analysis	3
ME 10210	Mfg. & Meas. Tech	3	MATH 01332	Numerical Analysis	3
	Rowan Core Elective (see note)	3	ME 10301	Machine Design	4
			ME 10101	Intro to Mech Design	3
	Total Credits	14		Total Credits	18
FOURTH YEAR - Fall Semester			FOURTH YEAR - Spring Semester		
Course #	Course Name	Cr	Course #	Course Name	Cr
ENGR 01403	Senior Clinic	2	ENGR 01403	Senior Clinic (WI)	2
ME 10345	Dynamic Systems & Control I	4		Technical Elective I	3
ME 10342	Quality & Reliability	3		Technical Elective II	3
	Rowan Core Elective (see note)	3		Business Elective (see note)	3
				Ethics Elective (see note)	3
	Total Credits	12		Total Credits	14

Note: This is intended for guidance purposes only. All students should consult with their advisors before registration.

Note: Rowan University has established a new general education curriculum called the Rowan Core. The policy at Rowan remains that if a student has been awarded a degree at a partner institution and has completed the general education requirements there, they will have met the general education requirements here. Students must, however, meet additional graduation requirements in fulfillment of the Rowan Experience.

Note: RCSJ-GC's Sophomore Engineering Clinic I plus English Comp. II=RU Sophomore Clinic I; RCSJ-GC's Sophomore Engineering Clinic II plus Oral Communication = RU's Sophomore Engineering Clinic II

Note: MAT 202 Linear Algebra and MAT 205 Differential Equations at RCSJ-GC are equivalent to MEA at Rowan University

Note: ENR 102 and ENG 201 would match ENGR 01.201; ENR 202 and SPE 101 would match ENGR 01.202

Note: ENR 207 Eng Materials transfers to Rowan University as ENGR 01.283 Materials Science & Manufacturing

Note: CSC 205 C++ Programming at RCSJ-GC is equivalent to CS 01.104 Intro to Scientific Programming at Rowan University

Note: ENR 212 Mechanics of Materials at RCSJ-GC is equivalent to ENGR 01.273 Strength of Materials at Rowan University

Note: RCSJ-GC PHI 104 Ethics will count as RU PHIL 0925 Intro to Ethics

Note: First Year and Sophomore Engineering Clinics at RCSJ-GC are equivalent to the First Year and Sophomore Engineering Clinics at RU

Note: *Offered during the spring; is a pre-req for Fluid Mechanics for ME and also & Heat Transfer for ME so would have to be taken before third year at RU

Note: Courses in **bold** are not a pre-req for junior year courses

Updated: April 14, 2021