

Courses in **BOLD** require minimum grade of **C**. Minimum grade **C-** for all **MATH** courses

Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall Semester	16	Fall Semester	15	Fall Semester	17	Fall Semester	17
First-Year Engineering Clinic 1 (ENGR 01101)	2	Sophomore Clinic 1 (ENGR 01201)	4	Junior Clinic (ENGR 01303)	2	Senior Clinic (ENGR 01403)	2
Calculus I (MATH 01130)	4	Calculus III (MATH 01230)	4	Signals & Systems (ECE 09341) (min. grade C)	2	Electrical Comm. Systems (ECE 09433)	3
Introductory Mechanics I Lect/Lab (PHYS 00220/PHYS L0220)	4	Computer Architecture (ECE 09243)	3	Science Elective (see options under notes below)	4	Very Large Scale Integration (VLSI) Design (ECE 09414)	3
Computer Sci. & Prog (CS 04103)	4	Princ. Elec. Circuit Analysis (ECE 09203) (min. grade C)	4	Engineering Electromagnetics (ECE 09303)	3	ECE Elective 2 (see notes below)	3
ECE: Solving Tomorrow's Problems (ECE 09101) - new fall '21	2			ME for ECEs (ME 10320)	3	ECE Elective 3 (see notes below)	3
				Business elective (see options under notes below)	3	<i>Rowan Core elective</i>	3
Spring Semester	15	Spring Semester	17	Spring Semester	15	Spring Semester	16
First-Year Engineering Clinic 2 (ENGR 01102)	2	Sophomore Clinic 2 (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	Systems & Control I (ECE 09321)	3	Engr. Clinic Consultant (ECE 09461)	1
College Comp I (COMP 01111)	3	Princ. Data Structures for Engineers (CS04225)	3	Digital Signal Processing (ECE 09351)	3	Seminar: Frontiers (ECE 09498)	1
Intro Elec. & Mag. Lect/Lab (PHYS 00222/L0222) (min. grade C)	4	Embedded Systems (ECE 09342) (min. grade C)	3	Modules in ECE (ECE 09363)	1	ECE Elective 4 (see notes below)	3
Intro to Digital Systems (ECE 09241)	2	Electronics I (ECE 09311) (min. grade C)	3	ECE Elective I (see notes below)	3	ECE Elective 5 (see notes below)	3
				Prob & Stat for ECEs (STAT 02286) new fall '21	3	<i>Rowan Core elective</i>	3
						<i>Rowan Core elective</i>	3
Total Credits						128	

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.

Rowan Core (RC) Literacies fulfilled as follows:	
Communicative (COML)	Comp I, SEC I and II
Scientific (SCIL)	Introductory Mechanics
Quantitative (QNTL)	Calculus I
Courses to fulfill following literacies are selected by student and may be taken in any order	
Humanistic (HUML)	elective
Artistic (ARTL)	elective
Global (GLBL)	elective
Rowan Experience fulfilled by:	
Rowan Seminar (RS)	First-Year Engineering Clinic I
Writing Intensive (WI)	Senior Engineering Clinic
Broad-based literature (LIT)	Literature-designated elective may be combined with Rowan Core elective

NOTES:

Science elective options: Chem I (Chem06100); Gen Bio: Human Focus (BIOL 01113); Human Anat. & Phys (BIOL 10210); Mod. Physics (PHYS 00300); or Intro Thermo, Fluid, Waves & Op (PHYS 00221).

Business elective options: Intro Microecon (ECON 04102); Intro Macroecon (ENT 04101); Entrepreneurship & Innovation (ENT 06240) or Small Business Management (ENT 06326)

Technical Electives: are chosen w/ consent of faculty advisor to meet student and program goals. Of the 5 ECE electives, one can be a course outside of ECE. Most 400-level courses offered within the College of Engineering can be used towards one ECE elective. Approved courses outside of Engineering may also be used as long as they are 400-level and reasonably related to engineering – please contact your advisor, ECE UG Chair or ECE Department Head for approval before choosing a non-ECE class as an elective.

OOD/Multidisciplinary exp. satisfied by one of the following:

- a. Participating in one out-of-discipline clinic project
- b. Providing consulting services to a non-ECE clinic or another research project through Clinic Consultant;
- c. Taking a non-ECE class as an elective, or an elective offered by the ECE Department but one that is clearly outside of the
- d. Completing a Minor in any field (which automatically satisfied item (c) above)