Rowan University

Fall 2024 ECE Curriculum Flow Chart

Electrical & Computer Engineering

Semester I	Semester II	Semester III	Semester IV	Semester V	Semester VI	Semester VII	Semester VIII
ENGR 01.101 First Year Eng. Clinic I (1-1)	ENGR 01.102 First Year Eng Clinic II (1-1)	ENGR 01.201 Soph. Eng. Clinic I (3-1)	ENGR 01.202 Soph. Eng. Clinic II (3-1)	ENGR 01.303 Jun. Eng. Clinic (0-2)	(x2) ENGR 01.303 Jun. Eng. Clinic (0-2)	ENGR 01.403 Sen. Eng. Clinic (0-2)	(x2) ENGR 01.403 Sen. Eng. Clinic (0-2)
MATH 01.130 Calculus I (4-0)	C- MATH 01.131 Calculus II (4-0)	C- MATH 01.230 Calculus III (4-0)	C- MATH 01.235 Math Eng. Analysis (4-0)	ECE 09.341 Signals & Systems (1-1)	C- ECE 09.321 Systems & Control I (2-1)	Varies ECE 09.4XX ECE Elective (3-0)	concurrent ECE 09.461 Prof. & Consultant (0-1)
PHYS 00.220 Intro. to Mechanics (3-1)	PHYS 00.222 Intro. to Elec&Magn (3-1)	A Break! Make It Count (0-0)	CS 04.225 Prin. of Data Struc. (3-0)	C- ME 10.320 Mech Eng. for ECEs (2-1)	C- ECE 09.351 Dig. Signal Processing (2-1)	or ECE 09.433 El. Comm. Systems (2-1)	Varies ECE 09.4XX ECE Elective (3-0)
CS 04.103 Comp. Sci. & Program. (4-0)	COMP 01.111 College Comp I (3-0)	C- ECE 09.203 P. E. Circuit Analysis (3-1)	C- ECE 09.311 Electronics I (2-1)	ECE 09.303 Electro-magnetics (2-1)	ECE 09.363 Modules in ECE (1-0)	Varies ECE 09.4XX ECE Elective (3-0)	Varies ECE 09.4XX ECE Elective (3-0)
ECE 09.101 ECE: Solving Tomorrow's Problems (1-1)	ECE 09.241 Intro. to Digital Sys. (1-1)	ECE 09.243 Computer Architecture (2-1)	C- ECE 09.342 Embedded Systems (2-1)	Varies SCIENCE Science Elective (3-1)	Varies ECE 09.4XX ECE Elective (3-0)	ECE 09.414 VLSI Design (2-1)	concurrent ECE 09.498 Engineering Frontiers (1-0)
				BUS/ENT Business Elective (3-0)	STAT 02.286 Prob & Stat for ECEs (3-0)	ROWAN CORE Humanistic Literacy (3-0)	ROWAN CORE Artistic Literacy (3-0)
							ROWAN CORE Global Literacy (3-0)

- Engineering Clinics
- Mathematics
- Physical & Eng. Sciences
- Electrical Eng. Core
- Signals & Systems Core
- Computer Eng. Core
- Rowan Core
- ECE Cross Cutting

Min. Prereq. Grade Required: C

Course (hegis) number

Pre-requisite

Co-requisite

ECE 09.XYZ
Course Name
(2-1)

Lect. – Lab credit hours

(x2) A project class to be taken twice. Same prerequisites apply to each.

Double frame indicates the class carries a minimum grade requirement to advance to certain other classes

This is the ECE curriculum for AY 2023-24. ECE Department works continuously to improve curriculum, hence future / final curriculum may differ from this.