Rowan ECE Curriculum - Advising & Progress Sheet w/Rowan Core

FALL	CR	Semester Completed	Grade	SPRING	CR	Semester Completed	Grade
FIRST YEAR							
Freshman Engineering Clinic I (ENGR 01.101)	2			Freshman Engineering Clinic II (ENGR 01.102)	2		
Intro. to Digital Systems (ECE 09.241)	3			Computer Sci. & Prog (CS 04.103)	4		
Calculus I (MATH 01.130) **QUANTITATIVE**	4			**Calculus II (MATH 01.131)**	4		
Intro. Mechanics I (PHYS 00.220) **SCIENTIFIC**	4			**Intro Elec. & Mag. (PHYS 00.222)**	4		
Rowan Core	3			College Composition I (COMP 01.111) - **COMM**	3		
Total Units	16			Total Units	17		
SECOND YEAR							
Sophomore Engineering Clinic I (ENGR 01.201) with College Composition II **COMM**	4			Sophomore Engineering Clinic II (ENGR 01.202) with Public Speaking **COMM**	4		
Calculus III (MATH 01.230)	4			Math for Eng. Analysis I (MATH 01.235)	4		
Science Elective[3]	4			Principles of Data Structures (CS04.225)	3		
Electrical Circuit Analysis (ECE 09.203)	4			**Computer Architecture (ECE 09.243)**	3		
				Electronics I (ECE 09.311)	3		
Total Units	16			Total Units	17		
THIRD YEAR							
Junior Engineering Clinic (ENGR 01.303)	2			Junior Engineering Clinic (ENGR 01.303)	2		
Signals & Systems (ECE 09.341)	2			Systems & Control I (ECE 09.321)	3		
Embedded Systems (ECE 09.342)	3			Digital Signal Processing (ECE 09.351)	3		
Engineering Electromagnetics (ECE 09.303)	3			Modules in ECE (ECE 09.363)	1		
Mech. Engineering for ECEs (ME 10.320)	3			ECE Elective / CpE [4]	3		
Business Elective[4] **(Non program)**	3			Rowan Core / Gen Ed	3		
Total Units	16			Total Units	15		
FOURTH YEAR							
Senior Engineering Clinic (ENGR 01.403)	2			Senior Engineering Clinic (ENGR 01.403) (WI[1])	2		
Engineering Clinic Consultant I (ECE 09.460)	1			Engineering Clinic Consultant II (ECE 09.462)	1		
VLSI Design (ECE 09.414)	3			Seminar: Frontiers (ECE 09.498)	1		
Electrical Communication Systems (ECE 09.433)	3			ECE Elective[5]	3		
ECE Elective / EE [5]	3			ECE Elective / Technology Focus Elective [5]	3		
ECE Elective [5]	3			Rowan Core	3		
				Rowan Core	3		
Total Units	15			Total Units	16		

Rowan Core Requirements (Fill in the course information below)							
HUMANISTIC:	3			**ARTISTIC:**	3		
GLOBAL:	3			**Non Program:**	3		
LITERATURE:				**Multidisciplinary / Out of Discipline**[6]			
				Multidisciplinary / Out of Discipline experience satisfied by:			

Total Program Credits: 128

Notes:

Courses listed in **bold face** need to be completed with a minimum grade higher than D+ (C or C-, depending on the course) to satisfy the prerequisites of one or more subsequent courses.

1. Rowan Core requires six literacies: Communication, Quantitative, Scientific, Artistic, Global, Humanistic. The first three are satisfied by major courses. The remaining three must be taken from appropriate bank of courses, one of which must carry "Literature" attribute. Some business electives may satisfy HUML requirement.

2. Java-based language course if available.

3. Choose from: CHEM 06.100 College Chemistry I, BIOL 01.112 General Biology, Environmental Focus, BIOL 01.113 General Biology, Human Focus; BIOL 01.115 General Biology – Plants and People; BIOL 10.210 Human Anatomy and Physiology; PHYS 00300 Modern Physics; PHYS 00221 Introductory Thermo, Fluid, Wave and Optics.

4. Business elective satisfies a non-program elective for Rowan Core, and must be one of the following: ECON 04.101 Introduction to Macroeconomics, ECON 04.102 Introduction to Microeconomics, ENT 06.240 Entrepreneurship and Innovation, or ENT 06.326 Small Business Management.

5. The ECE program requires a total of five technical electives that can be broadly categorized as Computer Engineering (CpE), Electrical Engineering (EE), Electrical and Computer Engineering (ECE) or Tech Focus electives. The categorization is not a requirement, but just a suggestion to have a broad background. An EE/CpE elective is a class that focuses on core electrical/computer engineering topics, whereas an ECE elective is any elective offered by the ECE Department that may or may not fall within traditional EE / CpE boundaries. A Tech Focus elective is an elective that may include multidisciplinary (non-ECE) engineering courses. ECE Department suggests taking at least one CpE and one EE elective among the five total electives.

6. OOD / Multidisciplinary experience requirement can be satisfied by either
   a. Participating in one out-of-discipline clinic project
   b. Providing consulting services to a non-ECE clinic or other 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 traditional boundaries of ECE providing non-ECE content (such as bioinformatics, biomedical systems and devices)
   d. Completing a Minor in any field (which automatically satisfied item (c) above)

Your notes from meetings with your Advisor (Make sure that your advisor enters these to your record on GRAD)

Revised June 2018 - For students entering as new Freshman in Fall 2018 or later