Rowan University
Henry M. Rowan College of Engineering

Mechanical Engineering Curriculum Guide

F '18

*Courses in **bold** require minimum grade of C-*

Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall Semester	**17**	**Fall Semester**	**16**	**Fall Semester**	**15**	**Fall Semester**	**17**
Freshman Clinic 1 (ENGR 01.101)	2	Sophomore Clinic 1 (ENGR 01.201)	4	Junior Clinic (ENGR 01.303)	2	Senior Clinic (ENGR 01.403)	2
Calculus I (MATH 01.130)	4	**Calculus III (MATH 01.230)**	4	Thermal-Fluid Sciences I (ME 10.321)	6	Systems Dynamics & Control I (ME 10.343)	3
Chemistry (CHEM06.100)	4	Intro Elect. & Magnetism (PHYS 00.222)	4	Machine Design (ME 10.301)	4	Finite Element Analysis (ENGR 01.410)	3
Computer Sci. & Prog (CS 04.103)	4	Statics (ENGR 01.271)	2	*Rowan Core elective*	3	Major Elective I (ME 10.4xx)	3
Rowan Core elective	3	Dynamics (ENGR 01.291)	2			Major Elective II (ME 10.4xx)	3
						Ethics Elective (see notes below)	3
Spring Semester	**16**	**Spring Semester**	**16**	**Spring Semester**	**17**	**Spring Semester**	**14**
Freshman Clinic 2 (ENGR 01.102)	2	Sophomore Clinic 2 (ENGR 01.202)	4	Junior Clinic (ENGR 01.303)	2	Senior Clinic (ENGR 01.403)	2
Calculus II (MATH 01.131)	4	**Math for Engr Analysis (MATH 01.235)**	4	Thermal-Fluid Sciences II (ME 10.322)	6	Systems Dynamics & Control II (ME 10.343)	3
College Comp I (COMP 01111)	3	Strength of Materials (ENGR 01.273)	3	Quality & Reliability (ME 10.342)	3	Major Elective III (ME 10.4xx)	3
Introductory Mechanics I (PHYS 00.220)	4	ME Lab (ME 10.211)	2	*Business Elective (see notes below)*	3	Major Elective IV (ME 10.4xx)	3
Intro to Mech. Design (ME10.101)	3	Materials Science & Mfg. (ENGR 01.283)	3	Principles & Apps. of ECE (ECE09.205)	3	*Rowan Core elective*	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), which 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-Literacies	**Fulfilled by:**
Artistic (ARTL)	*elective*
Global (GLBL)	*elective*
Humanistic (HUML)	*elective*
Communicative (COML)	Comp I, SEC I and II
Quantitative (QNTL)	Calculus I
Scientific (SCIL)	Chemistry I

Rowan Experience	**Fulfilled by:**
Rowan Seminar (RS)	Freshman Engineering Clinic I
Writing Intenstive (WI)	Senior Engineering Clinic
Broad-based lit. (LIT)	*Literature-designated elective*

Notes

Ethics options:

PHIL 09250, 09322, 09341, 09346, 09392 or 09393; INTR 01148 or 01174

Business elective options:

ECON 04101 or 04102; INTR 01138; BUS 01105; ENT 01240, 06346 or 06450; MIS 02526