

## **Engineering Entrepreneurship Curriculum Guide - ME Track**

Incoming class Fall '20

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	12
First-Year 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	Advanced Engineering I	4	Advanced Engineering V	3
Introductory Mechanics I (PHYS 00220)/Lab (PHYS L0220)		Statics (ENGR 01271)	2	Strength of Materials (ENGR 01273)	3	Technology Entrepreneurship (ENT 06450)	3
Computer Sci. & Prog (CS 04103)	4	Rowan Core elective	3	New Venture I: Investig thru Dev (ENT 06426)	3	Rowan Core elective	3
Rowan Core elective	3	Principles of Accounting I (ACC 03210)*	3	Business/Entr Elective	3	Engineering Entrepreneurship Clinic Consultar	1
		*student must have sophomore status				,	
					$\Box$		
Spring Semester	16	Spring Semester	16	Spring Semester	17	Spring Semester	11
First-Year 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	Math/Science Elective	4	Advanced Engineering VI	3
College Comp I (COMP 01111)	<u> </u>	Princ. ECE for Non-Majors (ECE 09205) or Mat. Sci. & Mfg. (ENGR 01283) or Intro to Scientific Program: Matlab/CAD (CS 01.104)	_	Advanced Engineering Elective II	4	Business/Entr Elective	3
Chemistry I (CHEM 06100)	4	Principles of Marketing (MKT 09200)	3	Advanced Engineering III	4	Math/Science Elective	3
Entrepr. & Innov (ENT 06240)	3	Dynamics (ENGR 01291)	2	Finan. & Legal Aspect of Entrep (ENT 06342)	3		
	<u> </u>						
						Total Credits	120
NOTE: At the advisor's discretion, ME track s prepare themselves for upper level ME elect		ents may take Intro to Scientific Program: MATLAB	3/CAD	in their sophomore year, moving back either Pri	nciples	of Accounting or Principles of Marketing to be	tter

## **University Requirements**

Communicative (COML)

Quantitative (QNTL)

Scientific (SCIL)

Comp I, SEC I and II

Calculus I

Chemistry I

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

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ı	Rowan Core-Literacies	Fulfilled by:	Rowan Experience	Fulfilled by:			
,	Artistic (ARTL)	elective	Rowan Seminar (RS)	Freshman Engineering Clinic I			

Global (GLBL) Writing Intenstive (WI) Senior Engineering Clinic elective Humanistic (HUML) elective Broad-based lit. (LIT) Literature-designated elective



## **Engineering Entrepreneurship Curriculum Guide - ECE Track**

Fall Semester Sophomore Clinic 1 (ENGR 01.201) Calculus III (MATH 01.230)	15 4 4	Fall Semester Junior Clinic (ENGR 01.303)	14	Senior Year Fall Semester	14
Sophomore Clinic 1 (ENGR 01.201)  Calculus III (MATH 01.230)	4	Junior Clinic (ENGR 01.303)			14
Calculus III (MATH 01.230)	+		2	0 1 00 1 (51100 04 400)	
, ,	4	NAE ( ECEL- (NAE 10000) C+-+! /D :		Senior Clinic (ENGR 01.403)	2
latra Dia Cua /ECE 003/41)		ME for ECE's (ME 10320) or Statics/Dynamics	3	Business/Entr Elective	3
Intro Dig Sys (ECE 09241)	3	Advanced ECE Core Course	3	Technology Entrepreneurship (ENT 06450)	3
Prin Elec Circuit Anal (ECE 09203)	4	Principles of Accounting I (ACC 03210)	3	Math/Science Elective	3
		New Venture I: Investig thru Dev (ENT 06426)	3	Rowan Core elective	3
Spring Semester	17	Spring Semester	15	Spring Semester	12
Sophomore Clinic 2 (ENGR 01.202)	4	Junior Clinic (ENGR 01.303)	2	Senior Clinic (ENGR 01.403)	2
Math for Engrg Analysis (MATH 01.235)	4	Math/Science Elective	4	Approved Engineering Elective	3
Comp Arch (ECE 09243)	3	Approved Engineering Elective	3	Business/Entr Elective	3
Electronics I (09311)	3	Finan. & Legal Aspect of Entrep (ENT 06342)	3	Business/Entr Elective	3
Principles of Marketing (MKT 09200)	3	Rowan Core elective	3	Engineering Entr. Clinic Consultant	1
					_
	•		<u> </u>	Total Credits	120
	Spring Semester Sophomore Clinic 2 (ENGR 01.202) Math for Engrg Analysis (MATH 01.235) Comp Arch (ECE 09243) Electronics I (09311) Principles of Marketing (MKT 09200)	Spring Semester 17 Sophomore Clinic 2 (ENGR 01.202) 4 Math for Engrg Analysis (MATH 01.235) 4 Comp Arch (ECE 09243) 3 Electronics I (09311) 3 Principles of Marketing (MKT 09200) 3	Spring Semester  Sophomore Clinic 2 (ENGR 01.202)  Math for Engrg Analysis (MATH 01.235)  Comp Arch (ECE 09243)  Electronics I (09311)  New Venture I: Investig thru Dev (ENT 06426)  Spring Semester  Junior Clinic (ENGR 01.303)  Math/Science Elective  Approved Engineering Elective  Finan. & Legal Aspect of Entrep (ENT 06342)	Spring Semester 17 Spring Semester 15 Sophomore Clinic 2 (ENGR 01.202) 4 Junior Clinic (ENGR 01.303) 2 Math for Engrg Analysis (MATH 01.235) 4 Math/Science Elective 4 Comp Arch (ECE 09243) 3 Approved Engineering Elective 3 Electronics I (09311) 3 Finan. & Legal Aspect of Entrep (ENT 06342) 3 Principles of Marketing (MKT 09200) 3 Rowan Core elective 3	New Venture I: Investig thru Dev (ENT 06426)   3   Rowan Core elective

Scientific (SCIL)

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: Notes: Artistic (ARTL) elective Global (GLBL) elective

elective

**Introductory Mechanics** 

Humanistic (HUML)

Communicative (COML) Comp I, SEC I and II

Calculus I Quantitative (QNTL)

Fulfilled by: **Rowan Experience** 

Freshman Engineering Clinic I Rowan Seminar (RS) Writing Intenstive (WI) Senior Engineering Clinic

Broad-based lit. (LIT) One Rowan Core elective above must be literature-designated