

## Engineering Entrepreneurship Curriculum Guide - ME Track

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

*Incoming Class Fall 2020 and Beyond*

Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall Semester	17	Fall Semester	16	Fall Semester	14	Fall Semester	14
First-Year Eng 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
<b>Calculus I (MATH 01.130)</b>	4	<b>Calculus III (MATH 01.230)</b>	4	Advanced Engineering I	3	Advanced Engineering IV	3
Introductory Mechanics I (PHYS 00.220) / Lab (PHYS L0220)	4	Statics (ENGR 01.271)	2	Princ. ECE for Non-Majors (ECE 09.205) <b>or</b> Mat. Sci. & Mfg. (ENGR 01.283) <b>or</b> Intro to Scientific Program: Matlab/CAD (CS 01.104) <b>or</b> Strength of Materials (ENGR 01.273)	3	Advanced Engineering V	3
Computer Sci. & Prog (CS 04.103)	4	<i>Rowan Core Elective</i>	3	New Venture Development (ENT 06.426)	3	Business/Entr Elective	3
<i>Rowan Core Elective</i>	3	Principles of Accounting I (ACC 03.210)*	3	Technology Entrepreneurship (ENT 06.450)	3	<i>Rowan Core Elective</i>	3
		<i>*Student must have Sophomore Status</i>					
Spring Semester	16	Spring Semester	16	Spring Semester	15	Spring Semester	12
First-Year Eng 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
<b>Calculus II (MATH 01.131)</b>	4	<b>Math for Engrg Analysis (MATH 01.235)</b>	4	Math/Science Elective	3	Math/Science Elective	4
College Comp I (COMP 01.111)	3	Princ. ECE for Non-Majors (ECE 09.205) <b>or</b> Mat. Sci. & Mfg. (ENGR 01.283) <b>or</b> Intro to Scientific Program: Matlab/CAD (CS 01.104) <b>or</b> Strength of Materials (ENGR 01.273)	3	Advanced Engineering Elective II (Suggest: <i>Machine Design ME 10.301</i> )	4	Advanced Engineering VI	3
Chemistry I (CHEM 06.100)	4	Principles of Marketing (MKT 09.200)	3	Advanced Engineering III	3	Business/Entr Elective	3
Entrepr. & Innov (ENT 06.240)	3	Dynamics (ENGR 01.291)	2	Finan. & Legal Aspect of Entrep (ENT 06.342)	3		
<b>Total Credits</b>							<b>120</b>

### University Requirements

*Revised 04 Nov 22*

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-Literacies

Artistic (ARTL)  
Global (GLBL)  
Humanistic (HUML)  
Communicative (COML)  
Quantitative (QNTL)  
Scientific (SCIL)

#### Fulfilled by:

*Rowan Core Elective*  
*Rowan Core Elective*  
*Rowan Core Elective*  
Comp I, SEC I and II  
Calculus I  
Chemistry I

#### Rowan Experience

*Rowan Seminar (RS)*  
*Writing Intensive (WI)*  
*Broad-based Lit. (LIT)*

#### Notes:

#### Fulfilled by:

First Year Engineering Clinic I  
Senior Engineering Clinic  
*One Rowan Core Elective above must be Literature-designated*

## Engineering Entrepreneurship Curriculum Guide - ECE Track

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

Incoming Class Fall 2020 and Beyond

Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall Semester	16	Fall Semester	15	Fall Semester	14	Fall Semester	14
First-Year Eng 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
<b>Calculus I (MATH 01.130)</b>	4	<b>Calculus III (MATH 01.230)</b>	4	ME for ECE's (ME 10.320)	3	Business/Entr Elective	3
Introductory Mechanics I (PHYS 00.220) / Lab (PHYS L0220)	4	<b>Comp Arch (ECE 09.243)</b>	3	Advanced Engineering Elective	3	New Venture Development (ENT 06.426)	3
Computer Sci. & Prog* (CS 04.103)	4	<b>Prin Elec Circuit Anal (ECE 09.203)</b>	4	Principles of Accounting I (ACC 03.210)	3	Math/Science Elective	3
ECE: Solving Tomorrow's Problems (ECE 09.101)	2			Technology Entrepreneurship (ENT 06.450)	3	<i>Rowan Core Elective</i>	3
Spring Semester	15	Spring Semester	17	Spring Semester	15	Spring Semester	14
First-Year Eng 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
<b>Calculus II (MATH 01.131)</b>	4	<b>Math for Engrg Analysis (MATH 01.235)</b>	4	Chemistry I (CHEM 06.100)	4	Advanced Engineering Elective	3
College Comp I (COMP 01.111)	3	Entrepr. & Innov (ENT 06.240)	3	Advanced Engineering Elective	3	Advanced Engineering Elective	3
<b>Intro Elec. &amp; Mag. (PHYS 00.222) / Lab (PHYS L0222)</b>	4	Adv Elect: Electronics I (ECE 09.311)	3	Finan. & Legal Aspect of Entrep (ENT 06.342)	3	Business/Entr Elective	3
<b>Intro Dig Sys (ECE 09.241)</b>	2	Principles of Marketing (MKT 09.200)	3	<i>Rowan Core Elective</i>	3	<i>Rowan Core Elective</i>	3
<b>Total Credits</b>						<b>120</b>	

### University Requirements

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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-Literacies

*Artistic (ARTL)*  
*Global (GLBL)*  
*Humanistic (HUML)*  
*Communicative (COML)*  
*Quantitative (QNTL)*  
*Scientific (SCIL)*

#### Fulfilled by:

*Rowan Core Elective*  
*Rowan Core Elective*  
*Rowan Core Elective*  
Comp I, SEC I and II  
Calculus I  
Introductory Mechanics

#### Notes:

#### Rowan Experience

*Rowan Seminar (RS)*  
*Writing Intensive (WI)*  
*Broad-based Lit. (LIT)*

#### Fulfilled by:

First Year Engineering Clinic I  
Senior Engineering Clinic  
*One Rowan Core Elective above must be LITerature-designated*