

**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>           | <b>3</b>   |
|  |    |  |    |  |    |                                      |            |
|  |    |  |    |  |    |                                      |            |
| 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          |
| Intro Dig Sys (ECE 09.241)                                     | 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**

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*

## 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  | 15 | Fall Semester   | 12         |
| 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 (Suggest: <i>Dynamic Systems/Control ME 10.345</i> )  | 4  | 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) or Mat. Sci. & Mfg. (ENGR 01.283) or Intro to Scientific Program: Matlab/CAD (CS 01.104) or Strength of Materials (ENGR 01.273) | 3  | Business/Entr Elective  | 3          |
| Computer Sci. & Prog (CS 04.103)                          | 4  | <i>Rowan Core Elective</i>   | 3  | New Venture Development (ENT 06.426)   | 3  | <i>Rowan Core Elective</i>  | 3          |
| <i>Rowan Core Elective</i>                                | 3  | Principles of Accounting I (ACC 03.210)*   | 3  | Technology Entrepreneurship (ENT 06.450)   | 3  | Engineering Entrepreneurship Clinic Consultant                    | 1          |
|   |    | <i>*Student must have Sophomore Status</i>   |    |  |    |   |            |
|   |    |  |    |  |    |   |            |
| Spring Semester   | 16 | Spring Semester  | 16 | Spring Semester  | 16 | 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 Engng Analysis (MATH 01.235)</b>   | 4  | Math/Science Elective  | 4  | Math/Science Elective   | 3          |
| College Comp I (COMP 01.111)                              | 3  | Princ. ECE for Non-Majors (ECE 09.205) or Mat. Sci. & Mfg. (ENGR 01.283) or Intro to Scientific Program: Matlab/CAD (CS 01.104) or Strength of Materials (ENGR 01.273) | 3  | Advanced Engineering Elective II (Suggest: <i>Machine Design ME 10.301</i> )   | 4  | Advanced Engineering V (Suggest: <i>Intro to TFS - ME 10310</i> ) | 4          |
| 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

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.

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#### 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

*1 Rowan Core Elective above must be LITerature-designated*