## Engineering Entrepreneurship Curriculum Guide - ECE Track

### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>17</strong></td>
<td><strong>15</strong></td>
<td><strong>14</strong></td>
<td><strong>14</strong></td>
</tr>
<tr>
<td>First-Year Clinic (ENGR 01.101)</td>
<td>Sophomore Clinic 1 (ENGR 01.201)</td>
<td>Junior Clinic (ENGR 01.303)</td>
<td>Senior Clinic (ENGR 01.403)</td>
</tr>
<tr>
<td>Calculus I (MATH 01.130)</td>
<td>Calculus III (MATH 01.230)</td>
<td>ME for ECE's (ME 10320) or Statics/Dynamics</td>
<td>Business/Entr Elective</td>
</tr>
<tr>
<td>Introductory Mechanics I (PHYS 00220)/Lab (PHYS L0220)</td>
<td>Intro Dig Sys (ECE 09241)</td>
<td>Advanced ECE Core Course</td>
<td>Technology Entrepreneurship (ENT 06450)</td>
</tr>
<tr>
<td>Rowan Core elective</td>
<td></td>
<td>New Venture I: Investg thru Dev (ENT 06426)</td>
<td>Rowan Core elective</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Spring Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>16</strong></td>
<td><strong>17</strong></td>
<td><strong>15</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td>First-Year Clinic 2 (ENGR 01.102)</td>
<td>Sophomore Clinic 2 (ENGR 01.202)</td>
<td>Junior Clinic (ENGR 01.303)</td>
<td>Senior Clinic (ENGR 01.403)</td>
</tr>
<tr>
<td>Calculus II (MATH 01.131)</td>
<td>Math for Engr Analysis (MATH 01.235)</td>
<td>Math/Science Elective</td>
<td>Approved Engineering Elective</td>
</tr>
<tr>
<td>College Comp I (COMP 01111)</td>
<td>Comp Arch (ECE 09243)</td>
<td>Approved Engineering Elective</td>
<td>Business/Entr Elective</td>
</tr>
<tr>
<td>Intro Elec. &amp; Mag. (PHYS 00.222)/Lab (PHYS L022)</td>
<td>Electronics I (09311)</td>
<td>Finan. &amp; Legal Aspect of Entrep (ENT 06342)</td>
<td>Business/Entr Elective</td>
</tr>
<tr>
<td>Entrepr. &amp; Innov (ENT 06240)</td>
<td>Principles of Marketing (MKT 09200)</td>
<td>Rowan Core elective</td>
<td>Engineering Entr. Clinic Consultant</td>
</tr>
</tbody>
</table>

### Total Credits

120

### 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)**
  - elective
- **Global (GLBL)**
  - elective
- **Humanistic (HUML)**
  - elective
- **Communicative (COML)**
  - Comp I, SEC I and II
- **Quantitative (QNTL)**
  - Calculus I
- **Scientific (SCIL)**
  - Introductory Mechanics

#### Rowan Experience

- **Rowan Seminar (RS)**
  - Freshman Engineering Clinic I
- **Writing Intensive (WI)**
  - Senior Engineering Clinic
- **Broad-based lit. (LIT)**
  - One Rowan Core elective above must be literature-designated

#### Notes:

- All courses must be passed with a grade of C- or better.
- All courses marked with an asterisk (*) must be completed within the first two years of study.
- Programming Language (SOF 09.011) is required for students interested in the Software Engineering emphasis.
- Entrepreneurship seminar (ENT 09203) is required for all entrepreneurship students.
- Engineering seminar (ENT 09202) is required for all engineering students.
- Business seminar (BUS 09201) is required for all business students.
- Legal seminar (LAW 09201) is required for all law students.
- Art seminar (ART 09201) is required for all art students.
- Science seminar (SCI 09201) is required for all science students.
- Humanities seminar (HUM 09201) is required for all humanities students.
- Mathematics seminar (MAT 09201) is required for all mathematics students.
- Communication seminar (COM 09201) is required for all communication students.
- Engineering Design (ENG 09201) is required for all engineering design students.
- Business Core (BUS 09202) is required for all business core students.
- Legal Core (LAW 09202) is required for all legal core students.
- Art Core (ART 09202) is required for all art core students.
- Science Core (SCI 09202) is required for all science core students.
- Humanities Core (HUM 09202) is required for all humanities core students.
- Mathematics Core (MAT 09202) is required for all mathematics core students.
- Communication Core (COM 09202) is required for all communication core students.
- Engineering Design Core (ENG 09202) is required for all engineering design core students.
- Business Core Elective (BUS 09203) is required for all business core elective students.
- Legal Core Elective (LAW 09203) is required for all legal core elective students.
- Art Core Elective (ART 09203) is required for all art core elective students.
- Science Core Elective (SCI 09203) is required for all science core elective students.
- Humanities Core Elective (HUM 09203) is required for all humanities core elective students.
- Mathematics Core Elective (MAT 09203) is required for all mathematics core elective students.
- Communication Core Elective (COM 09203) is required for all communication core elective students.
- Engineering Design Core Elective (ENG 09203) is required for all engineering design core elective students.
- Business Core Elective (BUS 09204) is required for all business core elective students.
- Legal Core Elective (LAW 09204) is required for all legal core elective students.
- Art Core Elective (ART 09204) is required for all art core elective students.
- Science Core Elective (SCI 09204) is required for all science core elective students.
- Humanities Core Elective (HUM 09204) is required for all humanities core elective students.
- Mathematics Core Elective (MAT 09204) is required for all mathematics core elective students.
- Communication Core Elective (COM 09204) is required for all communication core elective students.