### RIT BS/MS Program in Electrical Engineering with Renewable Energy Option (Final Release FS 2/20/2020)

<table>
<thead>
<tr>
<th>Year One</th>
<th>Year Two</th>
<th>Year Three</th>
<th>Year Four</th>
<th>Year Five</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB Calc I MATH-181 (4) All</td>
<td>PB Calc II MATH-182 (4) All</td>
<td>Mult &amp; Vect Calc MATH-221 (4) All</td>
<td>Diff Eq MATH-231 (3 F,Sp)</td>
<td>Comm Sys Math EEE-709 (3 F,Sp)</td>
</tr>
<tr>
<td>General Chem for Engr CHMG-131 (3) F,Sp</td>
<td>University Physics I PHYS-211 (4) All</td>
<td>University Physics II PHYS-212 (4) All</td>
<td>EM Fields EEE-374 (4) F,Sp</td>
<td>Engineering Analysis EEE-707 (3 F,Sp)</td>
</tr>
<tr>
<td>EE Pract EEE-105* (1) F, Sp</td>
<td>Dig Sys I EEE-120* (3)</td>
<td>CMPR-271-Comp Prob Solv for Engr (3) F,Sp</td>
<td>Dig Sys II EEE-220* (3) F, Sp</td>
<td>Immersion-2 xxxx-nnn (3)</td>
</tr>
<tr>
<td>RIT 365 YOPS-10 (0) F</td>
<td>Co-op Prep Sem EGEN 99 (0 F,Sp)</td>
<td><strong>Legend</strong></td>
<td><strong>Professional Electives:</strong></td>
<td><strong>Professional Electives from other departments can be taken with approval of faculty advisor</strong></td>
</tr>
<tr>
<td>Gen Ed Elective xxxx-nnn (3)</td>
<td>Perspective-1: Global xxxx-nnn (3)</td>
<td><strong>Total Credits = 150</strong></td>
<td>Co-op Requirements: 40 Weeks</td>
<td>Note: One General Education Course must be Writing Intensive</td>
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</tbody>
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#### Co-op Requirements: 40 Weeks
- Summer after 2nd year & Fall of 3rd year
- Summer after 3rd year or Summer after 4th yr

#### Writing Intensive

#### 2 Wellness Courses

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### Course Name

- **Biomedical**
  - EEE-636 Biorobotics/Cybernetics*
  - EEE-620 Design of Digital Systems*

- **Digital & Computer Systems**
  - EEE-621 Design of Computer Systems*

- **Communications**
  - EEE-678 Digital Signal Processing
  - EEE-492 Communication Networks
  - EEE-693 Digital Data Communications

- **Electromagnetic Fields & Optics**
  - EEE-605 Modern Optics for Engineers
  - EEE-617 Microwave Circuit Theory
  - EEE-629 Antenna Theory & Design

- **Control/RoboticsSystems**
  - EEE-647 Artificial Intelligence
  - EEE-685 Principles of Robotics*
  - EEE-636 Biorobotics & Cybernetics*

- **Devices and Integrated Circuits**
  - EEE-610 Analog Electronic Design
  - EEE-679 Analog Filter Design

- **Signal Processing**
  - EEE-686 Principles of Robotics*
  - EEE-636 Biorobotics & Cybernetics*

- **Energy Conversion**
  - EEE-321 EEE-321

- **Elect Power Trans & Dist**
  - EEE-622

- **Immersion-2**
  - EEE-6xx

- **Grad Elective**
  - EEE-6xx

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### Prerequisites

- **Math**
- **Comp Science**
- **Physics**
- **Chemistry**
- **Liberal Arts**
- **Elect Engr**
- **Graduate**
- **Math Elect**
- **Liberal Elect**

### Definitions

- **A**
- **B**
- **C**
- **D**
- **E**
- **F**
- **G**
- **H**
- **J**
- **K**
- **L**
- **M**
- **N**
- **P**
- **Q**
- **R**
- **S**
- **T**
- **U**
- **V**
- **W**
- **X**
- **Y**
- **Z**

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**Refer to your advisement report in SIS for a full list of professional electives**