### RIT BS Microelectronic Engineering (MCEE) 3/18/2022

<table>
<thead>
<tr>
<th>Year One</th>
<th>Year Two</th>
<th>Year Three-Spring</th>
<th>Year Four-Fall</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),Sp</td>
<td>Thin Films MCEE-320 (3)Sp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EM Fields MCEE-330 (3)Sp</td>
<td>Sr. Design I MCEE-495 (3)Sp</td>
</tr>
<tr>
<td>General Chem CHMG-131 (3) F,Sp</td>
<td>University Physics I PHYS-211 (4) F,Sp</td>
<td>University Physics II PHYS-212 (4) F,Sp</td>
<td>Restricted Stem Elective (3) F,Sp</td>
<td>Lith Mat MCEE-505* (3) F</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CMOS IC MCEE-550 (3)F</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Prof Elective MCEE-SXX (3)F</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Open Elective-1 xxxxx-nnn (3) F, Sp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Open Elective-2 xxxxx-nnn (3) F, Sp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Open Elective-3 xxxxx-nnn (3) F, Sp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total Credits 129</td>
</tr>
</tbody>
</table>

### Legend
- **Math**
- **Comp Science**
- **Physics**
- **Chemistry**
- **Liberal Arts**
- **Elect Engr**
- **Microelectronic Engr**
- **Year One**
- **Restr STEM Elect**
- **Open Elective**
- **Co-op**

### Professional Electives:
- EEEE-520 (Design of Digital Systems)
- PHYS-213 (Modern Physics)
- EEEE-587 (MEMS Evaluation), MATH-241 (Linear Algebra)
- EEEE-592 (Communication Networks), MATH-251 (Probability & Statistics I)
- EEEE-610 (Analog Electronics Design), CHMG-142 (General & Analytical Chemistry II)
- EEEE-689 (Fundamentals of MEMS), CHMG-201 (Introduction to Organic Polymer Technology)
- EEEE-711 (Adv. Carrier Injection Devices), BIOT-140 (Cell and Molecular Biology for Engineers I)
- EEEE713 (Solid State Physics), EEEE-220 (Digital Systems II)

### Restricted STEM Electives:
- ISEE-682 (Lean Six Sigma Fundamentals)
- MCEE-515 (Nanolithography Systems)
- MCEE-520 (Photovoltaic Science & Engineering)
- MCEE-704 (Physical Modeling of Semiconductor Devices)
- MCEE-706 (SiGe Devices and Technology)
- MCEE-713 (Physics of Nanostructures)
- MCEE-770 (Microelectromechanical Systems)

### Co-op Requirements: 48 Weeks
- MCEE-499: Summer after 2nd year/ Fall of 3rd year
- MCEE-SXX: Summer after 3rd year/ Fall of 4th year

### Note: One General Education Course must be Writing Intensive

### Co-op Prep Sem EGEN 99 (0) F, Sp

### Wellstones
- Wellness

### Summer after 2nd year/ Fall of 3rd year
- Summer after 3rd year/ Fall of 4th year

### Professional Electives from other departments may be taken with permission of the Program Director.