Optical Sciences and Engineering (2009 - 10)

Below is the *advised sequencing* of courses for this degree.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SOPHOMORE YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td><strong>Second Semester</strong></td>
</tr>
<tr>
<td><strong>Course</strong></td>
<td><strong>Units</strong></td>
</tr>
<tr>
<td>ENGR 102</td>
<td>3</td>
</tr>
<tr>
<td>MATH 125 or 124*</td>
<td>3/5</td>
</tr>
<tr>
<td>CHEM 151</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>3</td>
</tr>
<tr>
<td>Tier 1 INDV*</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL 16/18</strong></td>
<td><strong>TOTAL 17</strong></td>
</tr>
</tbody>
</table>

**TOTAL UNITS = 128**

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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SENIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td><strong>Second Semester</strong></td>
</tr>
<tr>
<td><strong>Course</strong></td>
<td><strong>Units</strong></td>
</tr>
<tr>
<td>OPTI 310</td>
<td>3</td>
</tr>
<tr>
<td>OPTI 370</td>
<td>3</td>
</tr>
<tr>
<td>OPTI 380A</td>
<td>1</td>
</tr>
<tr>
<td>Tech Elect**</td>
<td>3</td>
</tr>
<tr>
<td>MATH 322</td>
<td>3</td>
</tr>
<tr>
<td>Tier 2 Hum or Arts</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL 16</strong></td>
<td><strong>TOTAL 16</strong></td>
</tr>
</tbody>
</table>

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# MATH 124 is a 5 unit version of MATH 125. Students taking MATH 124 should consider delaying the Tier 1 INDV course to maintain a reasonable academic load.

## Students who choose to take technical electives from the optical materials track should take MSE 240 at this time and take the Tier 1 TRAD course in place of one of the later technical electives.

* INDV/TRAD/Art/Hum courses must meet University general education requirements. One course must be recognized by the University as focusing on non-western culture, race, gender or ethnicity. TRAD 101 satisfies this requirement.

** Tech Elect courses include 18 units taken from one of the following four tracks:

- Optics: 18 units of OPTI XXX or as approved by the advisor.
Opto-electronics: ECE 220, 207 (or OPTI 360), 381, and 8 units of ECE 3XX-4XX as approved by the advisor.

Optical materials: MSE 345, 365, 434, 480, and 6 units of MSE XXX as approved by the advisor.

Opto-mechanics: CE 214, AME 324A, and 11 units of AME XXX as approved by the advisor.

*** Students following the Opto-Electronics track may take ECE 207 instead of OPTI 360.

Please visit the Optical Science Center homepage for further information.