<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
<th>Hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yr. 1</td>
<td>Math 151</td>
<td>5</td>
<td>Math 152</td>
</tr>
<tr>
<td></td>
<td>Chemistry 121</td>
<td>5</td>
<td>Physics 131</td>
</tr>
<tr>
<td></td>
<td>Eng 181</td>
<td>3</td>
<td>Eng 183</td>
</tr>
<tr>
<td></td>
<td>En Graph 167</td>
<td>4</td>
<td>Math</td>
</tr>
</tbody>
</table>

* EnGraph 167 (EnGraph 167C is preferred) or satisfactory placement exam score required as prereq for CS&E 221. NOTE: CS&E 221 is not included in SPHR if EnGraph 167 (or its equiv) was taken for a grade.

Yr. 2

| Math 254 | Math 415 | Math 571* or 568 | 3    |
| Physics 133 | 5    | ECE 205 | 3    | ECE 206 | 1    |
| CS&E 222 | 4    | ECE 261 | 3    | ECE 209 | 2    |
| CS&E 321 | 4    | Preferred ECE | 3    |
| ECE 251 | 3    | ECE 351 | 3    | ECE 560 | 5    |
| ECE 567 | 2    | ECE 561 | 3    |

Yr. 3

| ECE 481 | 1    | ECE 682 or 683 | 3    |
| CS&E 660 | 3    | ECE 682 or 683 | 3    |
| Ind Eng 504 | 3    | 683 Syllabus |

Yr. 4

| Total Selec Core (____) | Total Other TEs (____) | Total from list (____) |

**Technical Electives and Selected Core: 33 Hours Total**

**Technical Electives**

- **VLSI (Very Large Scale Integrated Circuits) & Computer-Aided Design**
  - ECE 720 (3) ECE 721 (3) CS&E 778 (4)
  - Microprocessor Based Systems
    - ECE 765 (3)
  - Digital Design and Computer Architecture
    - ECE 667 (3) ECE 762 (3) ECE 764 (3) CS&E 775 (3)
  - Computer Interfacing and Protocols, Computer Networks
    - ECE 766 (3) CS&E 677 (3)
  - Robotics and Control for Automation
    - ECE 551 (3) ECE 755 (3) ECE 757 (3) ECE 763 (3)
  - Neural Networks, Artificial Intelligence
    - ECE 779 (3) CS&E 630 (3)
  - Digital Signal Processing/Image Processing
    - ECE 600 (3) ECE 609 (2) ECE 700 (3) ECE 706 (3)
    - ECE 707 (3)
  - Applied Software Engineering
    - ECE 668 (3) ECE 767 (3) ECE 769 (3)
  - Semiconductors
    - ECE 637 (4) ECE 730 (3)
  - Communication Theory
    - ECE 501 (3) ECE 702 (3)
  - Numerical Analysis
    - ECE 759 (3) CS&E 541 (3)

**Other Tech Electives**

**Selected Core**

- Total (____)

**Notes:**

- 0-9 hours may be taken from this list:
  - Bio 113 (5), Chem 122 (5) or 125 (4), Chem 231 or 251 (3), Earth Sci 121 (5), ME 250 (4), ME 410 (4), ME 420 (4), ME 430 (4), MSE 401 or ME 500 (4)

- One GEC must be a SOCIAL DIVERSITY course.
- One GEC must be an ETHICS course.
- Students must take 25 hours across Social Sciences, Historical Study, and Arts & Humanities with a minimum of 5 hours and maximum of 10 hours per category.

**Social Sciences (5-10 hrs)**

- English 110 (5)
- 2nd Wrtg Crs
- ECE 582 (3)

**Historical Study (5-10 hrs)**

**Arts & Humanities (5-10 hrs)**

- English 110 (5)
- 2nd Wrtg Crs
- ECE 582 (3)

**Transfer students:**

- Math & B. Science: 48 hrs?

**Final CPHR:**

**Final MGPA:**

**OK to Graduate?** Yes No

**Program Approved:**

**Hours Req’d for Degree:**

**Total Hours to Date:**

**Total Proposed Hours:**

**Advisor’s Signature**

**Date**