## 2009-2010

### Major: Electrical and Computer Engineering  
**Specialization:** Computer Engineering  
**Degree:** Bachelor of Science in Electrical and Computer Engineering (BSECE)

### Ces/Gec

### Hrs. 196

#### Name:  
ID:  
New to OSU:  
email:  
Phone number:  
http://www.ece.osu.edu

### Core (125 Hrs)

<table>
<thead>
<tr>
<th>Math</th>
<th>151.0x</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>131</td>
<td>5</td>
</tr>
<tr>
<td>Eng</td>
<td>183</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Math</th>
<th>152.0x</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>131</td>
<td>5</td>
</tr>
<tr>
<td>CS&amp;E</td>
<td>202*</td>
<td>4</td>
</tr>
</tbody>
</table>

* EnGraph 167 or CS&E 202 or satisfactory placement exam score required as prereq for CS&E 221.

#### Yr. 1

<table>
<thead>
<tr>
<th>Math</th>
<th>254</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>415</td>
<td>4</td>
</tr>
<tr>
<td>CS&amp;E</td>
<td>321</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Yr. 2

<table>
<thead>
<tr>
<th>Math</th>
<th>530</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE</td>
<td>331</td>
<td>3</td>
</tr>
<tr>
<td>ECE</td>
<td>351</td>
<td>3</td>
</tr>
<tr>
<td>CS&amp;E</td>
<td>561</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Yr. 3

<table>
<thead>
<tr>
<th>Math</th>
<th>481</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS&amp;E</td>
<td>660</td>
<td>3</td>
</tr>
<tr>
<td>Ind Eng</td>
<td>504</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Yr. 4

<table>
<thead>
<tr>
<th>Math</th>
<th>571(^1) or 568</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>206</td>
<td>1</td>
</tr>
<tr>
<td>CS&amp;E</td>
<td>265</td>
<td>3</td>
</tr>
<tr>
<td>Stat or Math</td>
<td>301</td>
<td>3</td>
</tr>
<tr>
<td>ECE</td>
<td>352</td>
<td>3</td>
</tr>
<tr>
<td>ECE</td>
<td>662</td>
<td>3</td>
</tr>
<tr>
<td>CS&amp;E</td>
<td>560</td>
<td>5</td>
</tr>
</tbody>
</table>

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

#### Technical Electives

Of the 24-33 Technical Elective hours:
- 12 hours must be selected from the list below; and
- 15 hours must be ECE, which includes Tech Elecs and EES core not in CES core (311, 312, 327, 341, 432, 447). ECE courses counted in the 12 hour requirement count in this requirement as well.

**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

| ECE 582 | 3 |

### Selected Core

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 125 (5), ME 250 (4), ME 410 (4), ME 420 (4), ME 430 (4), MSE 401 or ME 500 (4)

#### Total from list

| (   ) | (   ) |

#### Total Other TEs

| (   ) | (   ) |

#### Total Selec Core

| (   ) | (   ) |

#### Total

| (   ) | (   ) |

### Gen Ed Curriclm (38 Hrs)

#### Pre-Admission Condition

- Met  
- One GEC must be a Social Diversity course.

#### One GEC must be an Ethics course.

- SS  
- AH

#### English & Comm Skills (13)

- English 110  
- 2nd Wrtg Crs  
- ECE 582  
- 3

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)

| (   ) | (   ) |

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

| (   ) | (   ) |

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

| (   ) | (   ) |

#### Selected Core

| ECE 551 | 3 |

### Technical Electives

Of the 24-33 Technical Elective hours:

- 12 hours must be selected from the list below; and
- 15 hours must be ECE, which includes Tech Elecs and EES core not in CES core (311, 312, 327, 341, 432, 447). ECE courses counted in the 12 hour requirement count in this requirement as well.

**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

| ECE 582 | 3 |

### Selected Core

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 125 (5), ME 250 (4), ME 410 (4), ME 420 (4), ME 430 (4), MSE 401 or ME 500 (4)

#### Total from list

| (   ) | (   ) |

#### Total Other TEs

| (   ) | (   ) |

#### Total Selec Core

| (   ) | (   ) |

#### Total

| (   ) | (   ) |

### Hours Req’d for Degree:

| Transfer students: |

#### Earned Hours to Date:

| Math & B. Science: |

#### Final CPFR:

| Final MGPA: |

#### OK to Graduate?

| Yes |

#### Program Approved:

| Date |

### Advisor’s Signature

| Date |