**2014-2015**  
**Major:** Electrical and Computer Engineering  
**Program of Study:** Computer Engineering  
**Degree:** Bachelor of Science in Electrical and Computer Engineering (BSECE)  
**Hrs. 128**  

**Name:**  
**ID:**  
**New to OSU:**  
**Email:**  
**Phone number:**  

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### General Education (24 Hrs)

- **One GE must be a US Social or Global Diversity Course.**
- **One GE must be an ETHICS course.**
- English & Comm Skills (6 hr)
  - English 1110.xx 3
  - English 1110.xx 3
- Social Sciences (6 hrs)
  - Only one course per Social Science group may count
  - Group 3
  - Group 3
- **Literature** 3
- Visual & Performing Arts 3
- Historical Study 3
- 2nd Hst. Stdy. or Culture & Ideas 3

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### Core (84 Hrs)

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<tr>
<th>Course (Survey)</th>
<th>AU</th>
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<td>Engr (Survey)</td>
<td>1100 1</td>
<td>Engr (Fund. Of Engr I) 1182 2</td>
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<tr>
<td>Engr (Fund. Of Engr I)</td>
<td>1181 2</td>
<td>Math Engr. (Calculus II) 1172 5</td>
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<tr>
<td>Math (Calculus I)</td>
<td>1151 5</td>
<td>Chemistry for Engineers 1250 4</td>
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<tr>
<td>Physics I</td>
<td>1250 5</td>
<td>CSE (Programming C/C++) 1222 3</td>
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**Yr. 1**

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<td>Physics II</td>
<td>1251 5</td>
<td>CSE (Foundations I) 2321 3</td>
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<td>Math (Linear Algebra)</td>
<td>2568 3</td>
<td>ECE (Intro to ECE II) 2100 4</td>
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<tr>
<td>ECE (Intro to ECE)</td>
<td>2000 4</td>
<td>ECE (Microcontrollers) 2560 2</td>
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<tr>
<td>CSE (Dev Software I)</td>
<td>2221 4</td>
<td>CSE (Dev Software II) 2231 4</td>
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<tr>
<td>CSE (Microcontrollers Lab)</td>
<td>3567 1</td>
<td>CSE (Adv. Prog. In C) 2451 2</td>
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**Yr. 2**

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<tr>
<td>Stat (Prob&amp;Stat)</td>
<td>3470 3</td>
<td>ECE (Comp. Arch. Design) 5362 3</td>
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<tr>
<td>ECE (Electronics)</td>
<td>3020 3</td>
<td>CSE (Sys II/OS) 2431 3</td>
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<td>ECE (Adv. Digital Design)</td>
<td>3561 3</td>
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<tr>
<td>Math(DiffEq&amp;CmplxMath)</td>
<td>2415 3</td>
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<tr>
<td>ECE (Microcontrollers Lab)</td>
<td>3567 1</td>
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**Yr. 3**

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<tr>
<td>ISE (Engr. Econ.)</td>
<td>2040 2</td>
<td>ECE (Capstone Design) 4900 3</td>
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<td>ECE (Ethics &amp; Prof.)</td>
<td>3080 1</td>
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<td>ECE (Tech. Writing)</td>
<td>3090 1</td>
<td>☐ 4901 syllabus</td>
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**Yr. 4**

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### Electives (20 Hrs)

- At least 9 hours of the Technical Electives must be ECE or CSE courses selected from the lists below.
- Must include at least one 5000 level ECE or CSE Technical Elective.
- Up to 11 hours of the Electives may be Directed Electives from the ECE approved list. Directed Electives generally include: courses required for entry into other engineering majors; required and technical elective courses in other engineering majors; pre-med courses, business or entrepreneurship courses; math, statistics, physics and chemistry courses at higher level than required in the ECE core; and other physical science or biological science courses. For physical science or biological science courses a maximum of 7 hours numbered below 2000 may be counted as Directed Electives.

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### VLSI (Very Large Scale Integrated Circuits) & Computer Aided Design

**ECE 5020 (3)**

### Microprocessor Based Systems

**ECE 5465 (3)**

### Digital Design and Computer Architecture

**ECE 5462 (3)**

### Computer Networks

**ECE 5101 (3) CSE 3461 (3)**

### Signals and Systems

**ECE 3050 (3)**

### Robotics and Control for Automation

**ECE 3551 (3) ECE 5463 (3) ECE 5554 (3)**

### Digital Signal Processing/Image Processing

**ECE 5200 (3) ECE 5206 (3) ECE 5460 (3)**

### Numerical Analysis

**CSE 5361 (3)**

### Database/Algorithms

**CSE 5241 (3) CSE 5242 (3)**

### High Performance Computing

**CSE 5441 (3)**

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**Hours Req’d for Degree:**  
**Earned Hours to Date:**  
**Total Proposed Hours:**  
**Final CPHR:**  
**Final MGPA:**  
**OK to Graduate?** Yes No  
**Program Approved:**

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**Advisors Signature** Date  

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Revised 1/13/15: gjv