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: __________________________@osu.edu Phone number: __________________________

http://www.ece.osu.edu

**CORE (87 HRS)**

**Yr. 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>AU</th>
<th>SP</th>
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<tbody>
<tr>
<td>Engr (Survey)</td>
<td>1100</td>
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<tr>
<td>Engr (Fund. Of Engr I)</td>
<td>1181</td>
<td>2</td>
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<tr>
<td>Math (Calculus I)</td>
<td>1151</td>
<td>5</td>
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<tr>
<td>Physics I</td>
<td>1250</td>
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**Yr. 2**

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<tr>
<td>Physics II</td>
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<tr>
<td>Math (Linear Algebra)</td>
<td>2568</td>
<td>3</td>
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<tr>
<td>ECE (Digital Design)</td>
<td>2060</td>
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<td>CSE (Dev Software I)</td>
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**Yr. 3**

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<tr>
<td>ECE (Electronics)</td>
<td>3020</td>
<td>3</td>
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<tr>
<td>ECE (Ethics &amp; Prof.)</td>
<td>3080</td>
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<tr>
<td>ECE (Adv. Digital Design)</td>
<td>3561</td>
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<tr>
<td>ECE (Microcontrollers Lab)</td>
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<td>Math (Ord &amp; Part Diff Eqns)</td>
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**Yr. 4**

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<td>ISE (Engr. Econ.)</td>
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<td>ECE (Tech. Writing)</td>
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<td>ECE (Capstone Design I)</td>
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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. SS □ or AH □

**English & Comm Skills (6 hr)**

English 1110.xx 3

2nd writing 3

**Social Sciences (6 hrs)**

Only one course per Social Science group may count

Grp 3

Grp 3

**Literature** 3

**Visual & Performing Arts** 3

**Historical Study** 3

2nd Hst. Stdy. or Culture & Ideas 3

**ELECTIVES (17 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 8 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.

- 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)  CSE 5523

- Numerical Analysis
  - CSE 5361 (3)

- Database/Algorithms
  - CSE 5241 (3)  CSE 5242 (3)

- High Performance Computing
  - CSE 5441 (3)

**CSE DIRECTED ELECTIVES**

**OTHER ECE TECH ELECTIVES**

**NON-CSE DIRECTED ELECTIVES**

- Total Non-CSE DE ( )

- 5000-level

**Transfer students:**

- 30 OSU ECE hrs? □
- Math & B. Science: 32 hrs? □

**Final CPHR:**

**Final MGPA:**

**OK to Graduate?** Yes No

**Program Approved:**

**Revised 9/1/17: gjv**