Please note: this flowchart is one example of how students can graduate in 2 years. Many transfer students need longer than this. We encourage students to use this as a tool in creating their own unique quarter by quarter graduation plan.

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPE Transfer Students with articulated community college coursework equivalent to CPE 203 or additional STEM transfer college coursework, will have credit applied to the CPE 123 requirement. CPE Transfer students that do not have articulated community college coursework equivalent to CPE 203 or additional STEM transfer college coursework, will take an additional 4 units of Technical Electives in a future quarter.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Engineering Orientation</td>
<td>Systems Programming</td>
<td>Introduction to Computer Networks</td>
</tr>
<tr>
<td>CPE 100 (1)</td>
<td>CPE 357 (4)</td>
<td>CPE 444 (4)</td>
</tr>
</tbody>
</table>

**Please note:** This flowchart is one example of how students can graduate in 2 years. Many transfer students need longer than this.

**Updated 5/15/20**

**Fall Winter Spring Fall Winter Spring**

1 **Introduction to Computing**
   - CPE/CSC 123 (4) (or Technical Electives)*

2 **CPE/CSC 316 (3)**
   - Concurrent: CPE 225, 229, or 329 (CPE 133, EE 306 & 346; previously CSC 348) (CPE 101, 233)

3 **Digital Design**
   - CPE 133 (4)†
   - Coreq: CPE 233

4 **Computer Design and Assembly Language Programming**
   - CPE 233 (4)
   - (CPE 111)

5 **Probability and Random Processes for Engineers**
   - STAT 350 (4)
   - (CPE/CSC 497)

6 **Electronic Circuit Analysis & Lab III**
   - EE 212 (3)
   - EE 242 (3)
   - EE 246 (1)
   - EE 306 (3)
   - EE 346 (1)
   - EE 367 (3)
   - EE 368 (1)
   - Electives

7 **Microcontrollers & Embedded Applications**
   - CPE 316 (4)‡
   - EE 317, CPE 497

8 **Microprocessor Digital Electronics & Lab**
   - EE 400 (5)
   - EE 404 (5)
   - EE 406 (5)
   - Electives

9 **Computer Hardware Architecture & Design**
   - CPE 333 (4)†
   - (CPE 311, 233)

**Electronics Manual & Circuit Analysis Lab**
- EE 149 (1)

**Graduation Writing Requirement**
- GWR*

**Major Support Elective**
- GE AREA A1
- GE AREA A2
- GE AREA C1
- GE AREA C2
- EE 113 (112)
- EE 211
- EE 241
- CPE 101
- CPE 202

**Notes:**

- **MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET**
- * Refer to current catalog for prerequisites.
- ** Refer to the catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).
- USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, D Elective, or E Support Elective.
- *** Refer to your catalog for course selection.

- **SOME CPE COURSES WILL NEED TO BE ENROLLED IN BY PERMISSION NUMBER ONLY. MAKE SURE TO READ ALL THE SECTION NOTES IN SCHEDULE BUILDER EACH QUARTER TO IDENTIFY THESE COURSES.**
- 1 Course can be taken previously or concurrently.
- 2 Or can take CPE 146
- 3 CSC 248 in the 20-21 catalog is new offered as CSC 248. CSC 348 is no longer offered.
- 4 Only if the student has previously completed EE 141 or EE 142.
- 5 See catalog for course options. Consultation with advisor is recommended prior to selecting technical electives or approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals. No course credits may be used simultaneously to satisfy both engineering support and technical elective requirements.
- 6 ENGR 453, 460, 461, & CPE 404, or ENGR 463, 464, 465, & CPE 404 may substitute for CPE 395 and CPE 490.
- 7 The following courses may not be used to satisfy this requirement: DOOP units, BUS 499, CSC 302, CSC 305, CSC 315, CSC 410, CSC 500; EE 321, EE 322, EE 331, EE 400, EE 460, EE 500, EE 563.
- 8 Take CPE 333 (4) or CPE 315 (4).
- 9 Take CPE 316 (4); or CPE/EE 329 (4); or EE 336 (4).