# Computer Science & Engineering Requirements

**F2015-SP2019 REQUIREMENTS*  

<table>
<thead>
<tr>
<th>American History</th>
<th>Required</th>
<th>Satisfied</th>
<th>Subj-A/ESL/Ent-W</th>
<th>Required</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
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<td><strong>REQUISITE</strong></td>
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<tr>
<td><strong>TERMS</strong></td>
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<td><strong>REQUIRES</strong></td>
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<td><strong>FALL</strong></td>
<td><strong>WINTER</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SUMMER</strong></td>
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<tr>
<td>CS 1</td>
<td>CS 31</td>
<td>CS 32</td>
<td>CS 33</td>
<td>CS 35L</td>
<td>CS M51A or ECE M16</td>
<td>ECE 3</td>
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<tr>
<td><strong>SECOND YEAR</strong></td>
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<tr>
<td>Math 31A</td>
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<td>Math 31B</td>
<td>Math 32A</td>
<td>Math 32B</td>
<td>Math 33A</td>
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<td>Math 33A</td>
<td>Math 33B</td>
<td>Math 61</td>
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<td><strong>THIRD YEAR</strong></td>
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<tr>
<td>Physics 1A</td>
<td>Physics 1B</td>
<td>Physics 1C</td>
<td>Physics 4AL or 4BL</td>
<td>CS 111**</td>
<td>CS 118</td>
<td>CS 131</td>
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<tr>
<td>CS 111**</td>
<td>CS 118</td>
<td>CS 131</td>
<td>CS M151B or ECE M116C**</td>
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<td><strong>FOURTH YEAR</strong></td>
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<tr>
<td>CS 180**</td>
<td>CS 181</td>
<td>CS M152A or ECE M116L</td>
<td>CS 152B</td>
<td>ECE 100</td>
<td>ECE 102</td>
<td>ECE 115C</td>
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<td><strong>FIFTH YEAR</strong></td>
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<tr>
<td>CS Elective #1</td>
<td>(Upper Div CS Elective, 100-187)*</td>
<td>Courses outside this range must be petitioned (e.g. 188 or 199)</td>
<td>CS Elective #2* (Upper Div CS Elective, 100-187)*</td>
<td>CS Elective #3 (Upper Div CS Elective, 100-187)*</td>
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<td>TBR #2****</td>
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<td>TBR #3****</td>
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<td><strong>Notes:</strong></td>
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<td>English Composition 3</td>
<td>Requires a C or better to pass</td>
<td>Engineering Ethics (ENGR 181EW-185EW)**</td>
<td>Requires a C or better to pass</td>
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<td>General Education Requirement</td>
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<td>FAH - LCA/PLA/VPA*</td>
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<td>FSC - HAN</td>
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<td>FSC - SAN</td>
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<td>FSI - Life Science</td>
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**Worksheet to be used with the HSSEAS Announcement for your catalog year; however you need to refer to the current year's announcement for current term offerings as well as the updates posted at http://www.seasoasa.ucla.edu/undergraduates/curricular-requirements-department-information**

* Credit is not given for both CS 170A and ECE 133A unless at least one of them is being used as part of the TBR.
* Up to four units of 194 or 199 may be petitioned to be reviewed by Vice Chair for upper division CS elective credit.
* 4 units of approved CS 188 will satisfy upper division CS elective. Additional units must be petitioned. Up to 8 units of CS 188 may be considered for upper division CS Elective credit.
* Students must meet the minimum of 180 total units to graduate (includes transfer credit).

** The CS Dept strongly advises these courses be completed no later than Junior Year as they are Upper Division requisite courses.

* Must choose two different sub-groups (i.e., may not take two courses in the same subgroup)

[anth 06/01/18]