# 2011-13 Computer Science & Engineering Program Requirements

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<tr>
<th>UC Merced Campus Requirements</th>
<th>General Education Requirements</th>
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<tr>
<td>CORE 001 (4) The World at Home I</td>
<td>MATH 021 (4) Calculus I for Physical Sci &amp; Engineer</td>
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<tr>
<td>WRI 010 (4) College Reading &amp; Composition</td>
<td>PHYS 008 (4) Physics I</td>
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<tr>
<td>MATH 022 (4) Calculus II for Physical Sci &amp; Engineer</td>
<td>MATH 032 (4) Probability &amp; Statistics</td>
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<tr>
<td>PHYS 009 (4) Physics II</td>
<td>BIO 001 (4) Contemporary Biology</td>
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<tr>
<td>PHYS 024 (4) Linear Algebra &amp; Diff. Equations</td>
<td>CSE 020 (2) Intro to Computing I</td>
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<tr>
<td>MATH 023 (4) Vector Calculus</td>
<td>CSE 021 (2) Intro to Computing II</td>
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## Arts/Humanities GE (4)  
### Social Science GE (4)

- ENGR 097/197 (3) Or SSHA GE  
- ENGR 197 (3) Or upper division SSHA GE

## Engineering Major Preparation

- CHEM 002 (4) General Chemistry
- PHYS 009 (4) Physics II
- MATH 022 (4) Calculus II for Physical Sci & Engineer
- MATH 024 (4) Linear Algebra & Diff. Equations

## Computer Science & Engineering Core

- CSE 030 (4) Intro to Computer Science I
- CSE 031 (4) Intro to Computer Science II

And choose 4 from the following:

- CSE 100 (4) Algorithm Design & Analysis
- CSE 111 (4) Database Systems
- CSE 115 (4) Discrete Mathematics  
  #Junior Standing
- CSE 120 (4) Software Engineering
- CSE 140 (4) Computer Architecture
- CSE 150 (4) Operating Systems
- CSE 160 (4) Computer Networks

**Technical Electives:** Students in the Computer Science and Engineering program are also required to choose a minimum of 16 units of any upper-division CSE courses not counted toward CSE Core or Engineering Fundamentals.

# = Class restriction

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**UC Merced School of Engineering, 9/2012**