What does it take to earn a BS degree in Computer Engineering?

A BS degree in Computer Engineering (CpE) is earned through a 4-year program involving a fundamental understanding of electronic circuits, digital logic, and computer software systems.

Computer engineers get to work with the modern embedded computer processors that provide the electronic brains for mobile phones, autonomous vehicles, game consoles, aerospace systems, biomedical devices, and computer networks. This vast range of opportunities requires preparation and a strong understanding of scientific principles, electronic circuits, computer software, and engineering innovation and design.

If you have already taken some college-level courses it is very likely that those credits will cover CpE degree requirements — especially in the math, science, and general education areas.

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<th>Basic Math and Science Requirements</th>
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<td>Calculus I</td>
<td>Calculus II</td>
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<tr>
<td>Multivariable Calculus</td>
<td>Differential Equations</td>
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<td>Physics I (calculus-based)</td>
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<th>General Education Courses</th>
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<td>“General Education” means “all the things educated people need to know,” such as social science, artistic expression, writing, public speaking, history, philosophy, economics, psychology, cultural diversity, etc.</td>
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<th>Digital Computer Introduction</th>
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<td>Algorithms and Software Design</td>
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<th>Elective Courses in Engineering, Science, and Mathematics</th>
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<td>Courses you choose to provide greater depth and breadth for establishing your initial career path as a computer engineer. Examples include advanced software, wireless communications, embedded computer design, lasers and optics, robotics, audio engineering, and computer vision.</td>
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610 Cobleigh Hall, Bozeman, MT 59717-3780, 406-994-2505, http://ece.montana.edu