

# CeHS AP Computer Science

There are **2** AP courses students may take. We teach both courses here at Centennial. They are very different and are not sequential. Students may take either one or both!

<b>AP Computer Science Principles</b>	<b>AP Computer Science A</b>
<p>The AP® Computer Science Principles course introduces students to the essential ideas of computer science and helps them to understand how computing and technology can influence the world around them. As part of this course, students will be exposed to a <b>broad range</b> of computing tools and skills while creatively addressing real-world issues and concerns.</p>	<p>AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the <b>Java</b> programming language.</p>
<p>AP Computer Science Principles can help students prepare for success not only in <b>computer science majors and careers</b> but also throughout a broad range of <b>other fields and interests</b>.</p>	<p>AP Computer Science A is equivalent to a first-semester, college-level course in computer science. <u>Typically</u> for <b>CS majors and/or math and engineering majors</b>.</p>
<p>The Exam consists of:</p> <ul style="list-style-type: none"> <li>• Explore Performance Task – 16%</li> <li>• Create Performance Task – 24%</li> <li>• 74 Question MC Exam – 60%</li> </ul>	<p>The Exam consists of:</p> <ul style="list-style-type: none"> <li>• 40 Question MC Exam – 50%</li> <li>• 4 Free Response Handwritten Coding Solutions – 50%</li> </ul>
<p>Students must complete the explore and create task on their own with a minimum of 8 and 20 classroom hours provided respectively. To prepare for the multiple-choice test it is highly recommended students check out or purchase a review book. The exam is one of the newest exams and there are not a lot of materials available outside of those resources.</p>	<p>Students will be given exams and projects that reflect the level of understanding required for the exam; however, students <b>MUST</b> study outside of class writing code without a computer. There are materials online and books available for preparation for the exam and those are necessary for successful exam results.</p>

~More Information about Computer Science Courses at CeHS provided  
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