

AP Engineering Computer Science

8449 36 weeks

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Course Description

Suggested Grade Level: 9 or 10 or 11 or 12

Through an engineering lens, AP Engineering Computer Science offers students the opportunity to explore the seven big ideas of computer science (creativity, abstraction, data, algorithms, programming, internet, and impact); apply mathematical and scientific principles to solve problems through programming, and learn and apply the foundations of computer science to address real-world problems. The course is based on concepts outlined by the College Board and prepares students to take the [Advanced Placement Computer Science Principles Examination](#).

Curriculum Framework

International Technology and Engineering Educators Association (ITEEA) curriculum guides and course competencies are only available through ITEEA. To obtain additional information, contact ITEEA, 1914 Association Drive, Suite 201, Reston VA 20191. Telephone: 703-860-2100.

Appendix: Career Cluster Information

Career Cluster: Science, Technology, Engineering and Mathematics	
Pathway	Occupations
Engineering and Technology	Biomedical Engineer