

AP Computer Science Principles

A-G approved: category D

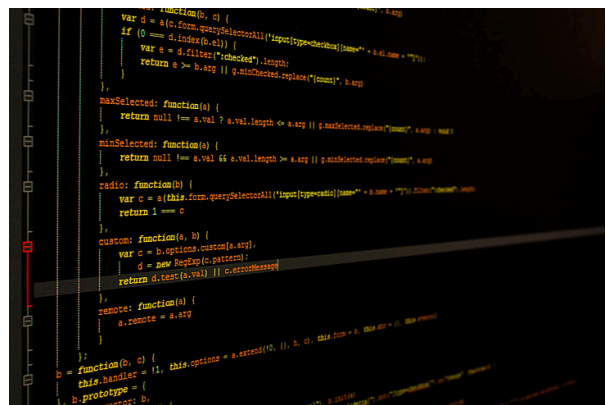
NHS science elective

Workload: 10 min reading + 30 min practice per class

COURSE DESCRIPTION/SUMMARY

An introductory college-level computing course.

Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.



What skills/concepts are learned in APCSP?

- The impacts of computing
- Connections between computing concepts.
- Design and development of computational artifacts
- Application and problem-solving with computing techniques
- Types of abstractions and managing complexity
- Development of models and simulations
- Justification of computational choices
- Describing behavior and output of artifacts
- Effective collaboration

INSTRUCTORS

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You will enjoy this class if you:

- Want an introduction to programming
- Ever wondered what goes on inside a computer
- Like to create your own art or engineer your own solutions
- Are looking for knowledge applicable to any field

GRADE DETERMINATION

Homework/classwork - 15%
 Exams - 35%
 Projects - 50%