

Introducing

AP<sup>®</sup> Computer Science Principles at Redlands High School

AP<sup>®</sup>

CollegeBoard

## WHAT IS AP CS PRINCIPLES?

- Introduction to the **essential ideas of computer science**.
- Exploration of the **global impact** of computing and technology.
- Creation of a **cross-disciplinary foundation of knowledge**.
- Allows you to **conceptualize and build digital projects**.
- Teaches how to **identify threats to cybersecurity**.

## WHAT DOES THIS COURSE COVER?

- **Algorithms** - Express an algorithm in a language.
- **Programming** - Collaborate to develop a program.
- **Creativity** - Create a computational artifact for creative expression.
- **Abstraction** - Explain how binary sequences are used to represent digital data.
- **Data and Information** - Extract information from data to discover and explain connections, patterns, or trends.
- **Global Impact** - Analyze the beneficial and harmful effects of computing.
- **The Internet** - Explain characteristics of the Internet and the systems built on it.

## WHO SHOULD ENROLL?

- Previous **completion of Integrated Math II** is highly recommended.
- Open to all grade levels, but recommended for **juniors and seniors**.
- Previous coding experience is **not required** to be successful in this course.

