

**Simi Valley High School
Software and Systems Development
featuring Robotics**

INFORMATION & COMMUNICATION TECHNOLOGIES



PATHWAY IN INFORMATION & COMMUNICATION TECHNOLOGIES

Software & Systems Development

Prepare for careers related to computer science that involves the design, development, implementation, maintenance and management of systems that rely on software programs to satisfy the operational needs of modern business organizations.

Students will gain experience in the following:

- Identifying and applying the systems development process
- Defining and analyzing systems and software requirements
- Creating effective interfaces between humans and technology
- Developing software using programming languages
- Testing, debugging, and improving software
- Integrating a variety of media into development
- Developing Web and online projects
- Developing databases
- Developing software for a variety of devices, including robotics

Simi Valley High School

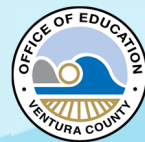
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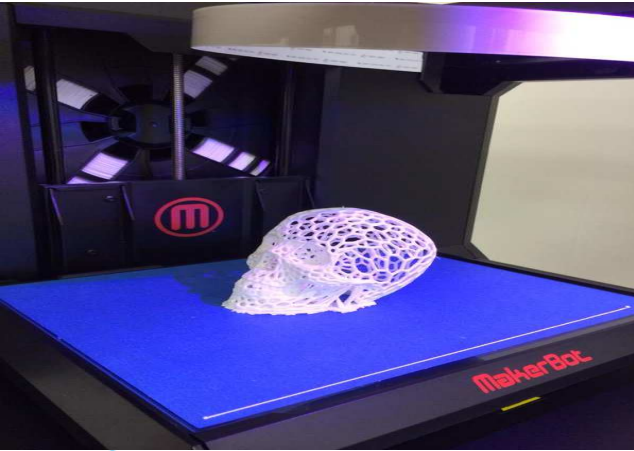
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vcinnovates.org





ABOUT

Information and Communication Technologies have expanded the need for employees who can understand, manage, and support all rapidly emerging, evolving, and converging computer, software, networking, telecommunications, Internet, programming, and information systems.

How big is the industry?

The United States accounts for more than 55% of global ICT research and development.

What about CA?

Between 2014 and 2022, Computer & Information Systems Managers are projected to have over 1,600 job openings annually.

Is the industry growing?

According to the Bureau of Labor Statistics, employment of software developers is projected to grow 17% from 2014 to 2024, much faster than the average for all occupations. IDC surveys show that infra-structure projects are a high priority for U.S. businesses, and interest is growing rapidly in collaborative tools, green IT, cloud computing and mobile applications.

INFORMATION & COMMUNICATION TECHNOLOGIES

If you like working with computers and other technology, this career sector could be for you. Information technology careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration services. No other career sector offers as much diversity as information technology.

CAREERS

Computer Programmer
Software Developer/Applications
Information Security Analyst
Web Developer
E-business/E-Commerce Specialist



COURSEWORK

AP Computer Science

AP Computer Science Principles

Robotics

Computer Programming 1 and 2

Web Design

Exploring Computer Science

Geometry and Computer Visualization

Algebra 2 for the 21st Century

