STEAM
Science Technology Engineering Art Math

In the Sehome Design Lab Science, Technology, Engineering, Art and Math combine to bring us full STEAM into the future. Learn to connect both sides of your brain to solve design problems. Unlock your creativity and start innovating. Computing has opened up wonderful new ways for people to connect, design, research, play, create, and express themselves. However, just using a computer is only a small part of the picture. The real transformative and empowering experience comes when one learns how to translate ideas into reality. This pathway introduces students to the maker movement through project based learning. With projects centered on application of the Design Loop, students will learn collaboration skills, presentation skills and hone an ability to bring a product from concept to completion. This pathway is designed to give students experience in a large variety of career opportunities. Students begin learning fundamentals and progress in many directions.

Visual Communication

Start your STEAM journey here. This course combines photography, art, digital imaging technology, and communication with special emphasis on computer graphics while exploring careers. Digital media has exploded all around us; learn the skills that move you from media user to media producer; including interactive art, graphical user interface, the Internet, and mobile phones.

Computer Programming

From web design to Python you'll learn how to code computer programs and design algorithms that make computers more efficient and discover what a career in computing could be.

AP Computer Science Principles

Introduction to the foundational concepts of computer science. Explore how computing and technology can impact the world. Focus on creative problem solving and real-world applications.

AP Computer Science A

Learn to code in Java with an emphasis on data abstraction, object-oriented programming, design methodology, algorithms, and data structures.

Video Game Design

Turn your passion for video games, art/graphic design or technology into a future in the multi-billion-dollar video game industry. You will use both halves of your brain to design and program games. Explore the field of computer science with an emphasis on games.

Video Production

Through video creation, students will explore the impact and power of media, develop an ability to critique various productions and apply ethical standards for public viewing.

Interior Design

Apply your passion for art to improving interior spaces. You'll apply the elements and principles of design along with design styles and floorplans.

Architecture

From technical sketches to creating your own 3D home models you'll learn what it takes to get into this industry.

Sustainable Design

Explore and discover what innovators are doing to lower our impact on the earth's resources. Topics will include renewable resources, power generation, and green innovations in design and manufacturing.