

COURSE DETAILS



INFORMATION TECHNOLOGY

Computer I - Multimedia and Robotics

Dive into the dynamic world of multimedia with our comprehensive course covering Adobe Premiere Pro, Adobe After Effects, Adobe Animate, and VEX Robotics. Students will master video editing in Premiere Pro, crafting professional-quality projects. Adobe After Effects will empower them to create stunning motion graphics and visual effects. With Adobe Animate, they will bring characters and scenes to life through animation. Additionally, students will explore the fundamentals of robotics with VEX, learning to design, build and program robots. This course offers a blend of creativity and technical skills, preparing students for future careers in digital media and robotics engineering.

- Adobe Premiere Pro
- Adobe After Effects
- Adobe Animate
- VEX Robotics

Computer II - Web Design and Robotics

This course offers an exciting blend of web design and robotics, providing students with the skills to excel in both fields. Students will learn the essentials of web design using HTML, CSS, and JavaScript, creating responsive and interactive websites from scratch. They will gain hands-on experience in coding, styling, and scripting, turning their creative ideas into full functional web pages. Additionally, the course includes a focus on robotics with VEX, where students will design, build and program robots, understanding the principles of automation and engineering. This course equips students with a strong foundation in both web development and robotics, preparing them for the technological challenges of the future.

- HTML
- CSS
- JavaScript
- VEX Robotics

Computer III - Web Development

Embark on a comprehensive journey into web development with this course, covering HTML, CSS, JavaScript, SQL, PHP and Content Management Systems (CMS). Students will start by mastering the basics of web design with HTML and CSS, creating visually appealing and responsive websites. They will then enhance their sites with interactivity using JavaScript. The course delves into back-end development with SQL and PHP, teaching students how to manage databases and build dynamic, data driven websites. Additionally, students will learn using popular CMS platforms, streamlining website creation and management. This course equips students with the full spectrum of web development skills, preparing them for advanced projects and careers in the web industry.

- HTML
- CSS
- JavaScript
- SQL
- PHP
- CMS

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Computer IV - Computer Programming

This course offers an in-depth exploration of computer programming using two powerful languages: C++ and Python. Students will begin with C++, learning fundamental concepts such as data types, control structures, functions and object-oriented programming. They will then transition to Python, gaining proficiency in its syntax, libraries, and versatile applications. Through hands-on projects and problem-solving exercises, students will develop strong programming skills, enabling them to tackle complex coding challenges. This course provides a solid foundation in both languages, preparing students for advanced studies in Computer Science and various programming careers.

- Python
- C++

AP Computer Science Principles

This advanced program delves into the core principles of Computer Science, providing students with a comprehensive understanding of computational thinking, programming, and system design. Students will explore topics such as algorithms, data structures, software development, and cybersecurity. They will engage in hands-on projects and collaborative problem-solving, applying theoretical concepts to real-world scenarios. This course emphasizes critical thinking and innovation, prepares students for higher education in Computer Science and technology-driven careers. Through rigorous coursework and practical experience, students will gain the skills and knowledge necessary to excel in the dynamic field of Computer Science.

