

COMPUTER GRAPHICS 1,2 (4425, 4426)
COMPUTER EDUCATION: SITE-ADOPTED COURSE

Grades 9–12. In this two-semester course, students learn how to apply design principles to computer graphics, using subject matter that includes still life and nonobjective representation. The course expands students' investigation of art to include tools offered by technology through their use of drawing software, scanners and digitizers to express visual ideas that reflect contemporary concerns.

Credit for this course counts toward the elective credits required for high school graduation. Successful completion of the course also fulfills the district's computer literacy requirement.

Approved sites: La Jolla High School.



COMPUTER PROGRAMMING TECHNIQUES 1,2 (4441, 4442)
COMPUTER EDUCATION: SITE-ADOPTED COURSE

Grades 10–12 (P). Prerequisites: Students must be enrolled in this course by their AP Computer Science teacher.

This two-semester computer class can move in two directions, depending on students' needs. Students can either prepare for the AP Computer Science AB exam (the AP class teaches only the A part), or they can undertake computer projects on behalf of staff using their programming skills in C++ and/or Java. Projects are cleared with the teacher and staff member, timelines are developed, and the student is responsible for meeting the deadlines and requirements of the project as prescribed.

Credit for this course counts toward the elective credits required for high school graduation. Successful completion of this course also satisfies the district's computer literacy requirement. The course meets elective ('g') subject-area requirements for admission to the University of California/California State University systems.

Approved site: Morse High School.



ENVIRONMENTAL AND SPATIAL TECHNOLOGY 1,2 (6307, 6308)
COMPUTER EDUCATION: SITE-ADOPTED COURSE

Grades 10–12. Note: Although this course is assigned a number in the science sequence of courses, its content and curriculum are administered by the Computer Education Department.

Environmental and Spatial Technology (EAST) is a second-year computer-applications course in which students acquire experience in high-end professional design and engineering software in a corporate learning environment. Students use tutorials, guides and lessons to learn the new software, and then work closely with business partners to design and execute projects that use the applications to benefit the surrounding community. This course is designed to be a capstone course in the science and technology career path at the School of Science and Technology at the San Diego High Educational Complex.

Credit for this course counts toward the elective credits required for high school graduation.

Approved site: San Diego SciTech.



INTEGRATED TECHNOLOGY STUDIES 1,2 (4405, 4406)
COMPUTER EDUCATION: SITE-ADOPTED COURSE

Grades 7–8. This two-semester project-based course is designed to prepare middle school students to successfully meet the 21st century demands of higher education and the workplace through the hands-on use of technology. The course is divided into six six-week units, with each unit addressing one of the six National Educational Technology Standards for students. Areas addressed include word processing, databases, spreadsheets, presentations, graphic organizing, Internet searching, and Web site design and evaluation.

Credit: Successful completion of this course fulfills the district's computer literacy requirement for high school graduation.

Approved sites: Correia (originating site) and SCPA Middle Schools, and Memorial Prep Academy for Academics and Athletics.



TECHNOLOGY AND RESEARCH PRACTICE 1,2 (4427, 4428)
COMPUTER EDUCATION: SITE-ADOPTED COURSE

Grades 11–12. Prerequisite: Computer Science 1,2 (4411, 4412).

This two-semester course gives students the opportunity to work with a technology resource teacher to acquire the knowledge, skills, and attitude necessary for a career in technology. Students learn how to correctly set up and use computer hardware and software, and to follow correct procedures when preparing for and performing technology-related activities. They also acquire a basic knowledge of the school computer networking system, and develop an understanding of the interrelationship between hardware, software, and network operations.

Credit for this course counts toward the elective credits required for high school graduation.

Approved sites: La Jolla and Morse High Schools.



WEB DESIGN AND PRODUCTION 1,2 ADVANCED (4469, 4470)
COMPUTER EDUCATION: SITE-ADOPTED COURSE

Grades 9–12. Prerequisite: Successful completion of either Computer Science 1,2 (4411, 4412) or one of the courses in the ROP Computer Repair sequence of courses (8945–8948, and 8584, 8585) with a grade of B or better.

This two-semester course prepares students for entry-level employment in the areas of Web site design, production, and maintenance. Students are introduced to advanced programming and maintenance topics, and learn how to operate a Web server in accordance with standard industry procedures.

Credit for this course counts toward the elective credits required for high school graduation.

Approved sites: University City and La Jolla High Schools.



WEB PROGRAMMING 1–2 (4430, 4440)
COMPUTER EDUCATION: SITE-ADOPTED COURSE

Grades 10–12. Note: Although this course is assigned a number in the computer education sequence of courses, it is part of the sequence of courses that makes up the Career Technical Education Department's computer science and information systems career path.

This yearlong course offers a comprehensive introduction to the programming languages and conventions of the World Wide Web. Students begin by learning basic design and programming principles, then use Hypertext Markup Language (HTML) and JavaScript to design, program, and present basic Web pages online.

Credit for this course counts toward the elective credits required for high school graduation.

Approved sites: Mission Bay (originating site) and La Jolla High Schools.



WEBSITE ARCHITECTURE 1–2 (4467, 4468)
COMPUTER EDUCATION: SITE-ADOPTED COURSE

Grades 9–12. Note: This course was previously titled School Website Design 1–2.

This yearlong course offers students an opportunity to learn the Web design process that will enable them to create, develop, and maintain Web sites (including their particular school's Web page) relevant to the real world. Students in this course will acquire real-world, marketable skills while creating a product that meets the needs of their school community. They also will acquire time-management skills and effective communications habits that will facilitate their success in the workplace at a later time. Students will learn Web programming, information architecture, graphic design, technical writing, and promotional/public relation skills.

Credit for this course counts toward the elective credits required for high school graduation and multiple credit is allowed. Students also may earn up to two college credits upon completion of the course through articulation agreements with the San Diego Community College District's City, Mesa, and Miramar Colleges.

Approved sites: Crawford MVAS, Hoover, Madison, Mission Bay (originating site), SCPA, San Diego Business, and Serra High Schools.

