

Technology Applications Courses for High School Students

**NEW FOR
2001-2002**

ALL COURSES:

1. Meet the technology requirement for graduation
2. Are one credit courses
3. Have a prerequisite of CIS I, CS I, or 8th grade Advanced Computer Technologies
4. Are open to students in grades 9-12 who meet the prerequisite

Desktop Publishing

Students will publish a variety of digital products, including newsletters, business cards, stationary, book jackets, magazines, brochures, Web pages, videos, advertisements, and novelty items. A variety of development tools will be used.

Software Includes:

- Quark XPress
- Adobe PhotoShop
- Adobe Illustrator
- Macromedia Dreamweaver
- Macromedia Freehand
- Adobe Premiere
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Topics of Study Include:

- Text
- Digital Graphics
- Headlines
- White space
- Layout
- Leading/kerning
- Automatic text flow and linked columns
- Widows/orphans
- Tiling
- Style sheets
- Drop caps
- Decorative letters
- Embedded text frames

Digital Graphics & Animation

Students will create graphics, animations, lettering, and other digital media for use in products such as Web pages, videos, and diverse forms of electronic and print media.

Software Includes:

- Adobe Illustrator
- Adobe PhotoShop
- Adobe Premier
- Macromedia Director
- Macromedia Fireworks
- Macromedia Flash
- Macromedia Freehand
- Inspire 3D Animation

Topics of Study Include:

- Process color, spot color, and black/white
- Animation programs including cast, score, stage, and the animation control panel
- Proportion, balance, variety, emphasis, harmony, symmetry and unity in type, color, size, line thickness, shape, and space
- Use perspective including backgrounds, light, shade/shadows, and scale to create a focal point and create depth

Multimedia

Students will use a variety of development tools to design presentation and interactive multimedia.

Software Includes:

- Adobe Illustrator
- Adobe PhotoShop
- Adobe Premier
- Macromedia AuthorWare
- Macromedia Director
- Cool Edit
- Macromedia Dreamweaver
- Macromedia Flash
- Inspire 3D Animation
- Microsoft PowerPoint

Topics of Study Include:

- Linear/non-linear authoring tools
- Image/video editing tools
- Compression programs
- Draw/paint/text creation tools
- Scripting
- 3-D modeling
- Video capture
- Animation
- Digital audio recording

Web Mastering

Students create interactive Web sites for authentic customers, using specific authoring tools and established design principles.

Software Includes:

- Macromedia Dreamweaver
- Macromedia Flash
- Macromedia Fireworks
- Macromedia Director
- Windows Notepad
- Netscape Composer
- GIF Construction Set

Topics of Study Include:

- Structure, design, and functionality of Web sites
- Design elements
- Graphics
- Animation
- HTML
- WYSIWYG editors
- JavaScript
- Server considerations
- Future trends
- File formats
- Needs assessments and building a client base

Web Mastering Online

This two-semester course has the same content as the traditional Web Mastering course, but **students access the course from a computer at home outside of the regular school day.** Student qualities for success in this online course include: strong reading and writing skills, ability to make decisions and solve problems creatively, responsible and self-directed, possess honesty and integrity, excel at time management and possess exemplary organizational skills.

This course requires two teacher recommendations. Grades will be posted to the student's official record in December and again in May.

NEED MORE INFORMATION?

Ask your Counselor, Campus Instructional Technologist, current technology teacher, or call Instructional Technology at 522-8125 (Kelly Smith).