

## Computer Science Applications

Computer Applications provides students with active learning experiences related to the productive use of computer-based applications. Students use word processing, desktop publishing, spreadsheet, presentation, Web page development, and Internet research skills to complete meaningful and authentic projects. This course focuses on the selection and use of appropriate technology tools and resources to accomplish a variety of tasks and solve problems. Course outcomes are based on national and state technology standards such as the International Society for Technology in Education, the National Workforce Center for Emerging Technologies, and the Maryland Technology Literacy Standards.

By the end of this course, students will be able to do the following:

- Use keyboarding, word processing, and desktop publishing skills to communicate and publish information.
- Use spreadsheet software to design, organize, and manipulate text and numerical data, as well as create charts to display data.
- Research and evaluate the accuracy, relevance, and appropriateness of Internet-based sources.
- Design, develop, publish, and present products using technology resources that demonstrate and communicate curriculum concepts to audiences inside and outside the classroom.
- Use graphics, multimedia, hypermedia, Web editors, and telecommunications tools to organize and present information.
- Demonstrate an understanding of the principles involved in computer network operations and the functions of hardware and software.

## Multimedia and Visual Communications

Have you ever wondered what multimedia or visual communications really are? Everybody reads about it, talks about it, and wants it.

This fun and dynamic course will allow students to learn about computer technology through engaging lessons and project-based learning experiences. This course will focus on incorporating the elements of text, image, sound, speech, video, and computer programming in Web-based applications. Students will learn to use technology to enhance information, resulting in effective communication through interactive projects. Course outcomes are based on national and state technology standards such as the International Society for Technology in Education, the National Workforce Center for Emerging Technologies, and the Maryland Technology Literacy Standards.

By the end of this course, students will be able to do the following:

- Use the Internet effectively to research information.
- Investigate the impact of technology on society and career development.
- Complete numerous hands-on projects related to Web-based application.
- Use decision-making skills and critical thinking to design projects.
- Collaborate with peers using technology tools to solve problems.
- Identify and use appropriate technology tools to solve problems.
- Develop oral presentation skills.