

# INFORMATION, ARTS, AUDIO-VISUAL TECHNOLOGY AND COMMUNICATION

♦ **ONE (1) CREDIT REQUIRED FOR GRADUATION.**

♦ **Course offerings not having sufficient enrollment after registration will be discontinued for the 2018-2019 school year.**

Using technology as a tool to research, create, organize, design, produce, evaluate and communicate. It is a necessity to promote and instill lifelong learning and troubleshooting skills when preparing students to become College, Career, and Life ready.

### **So What Computer Class Should I Take?**

It is highly recommended and strongly encouraged that all incoming freshman or student with little to no computer skills take Computer Applications (formerly Information & Communications Technology (ICT I)), which is considered a foundational course. After successful completion of Computer Applications, students are encouraged to look at other courses that fit their specific interests and career pathways.

<b>Computer courses available by grade level and credits earned</b>	
Each course listed here is a <b>semester</b> course earning .5 (1/2) credit	<b>Grades 9-12</b> Computer Applications Advanced Computer Applications
	<b>Grades 10-12</b> Graphic Design 1 Media Production Web Development Graphic Design 2
Each course listed here is a <b>year-long</b> course earning 1 credit	<b>Grades 10-12</b> Exploring Computer Science

<b>Course Recommendations by Grade Level and Experience</b>	
<ul style="list-style-type: none"> <li>• <b>Incoming Freshman</b></li> <li>• <b>Students with Little or No Computer Experience</b></li> </ul>	<p>The Computer Applications course is highly recommended if you have not mastered basic formatting and operations in Microsoft Office programs (Word, Excel, Access, and PowerPoint). This is a foundational course that also covers file management, time management skills, digital citizenship, technical reading and other related skills needed in order to be successful in more advanced computer courses.</p>
<ul style="list-style-type: none"> <li>• <b>Upper Classmen with <u>Computer Experience</u></b> <ul style="list-style-type: none"> <li>○ Successful completion of Computer Applications or 8<sup>th</sup> grade computers with a C or better grade.</li> </ul> </li> </ul>	<p>Focus on other more specific computer courses that that fit your specific interests and career pathways.</p> <p style="text-align: center;"><b>**Read the following descriptions below to find the perfect course for you!</b></p>

## **Computer Applications (9-10-11-12)**

**One Semester - 1/2 Credit**

*(formerly Information and Communication Technology I)*

► ***This course goes beyond the basics taught in Middle School. If the student feels he/she is proficient in this area, please make arrangements for a test-out.***

► ***Approved Career and Technical Education Course***

Students will learn to identify the general usage of technology, software, and applications. Utilizing that knowledge, this course will cover topics such as, but not be limited to, Word, Excel, PowerPoint, Access, operating systems, Internet browsers, search engines, preventive maintenance and security, digital literacy, netiquette and citizenship. This course expands the student's skills, knowledge, and confidence in various forms of software platforms and applications.

## **Advanced Computer Applications(9-10-11-12)**

**One Semester – 1/2 Credit**

*(formerly Information and Communication Technology II)*

► ***Earn industry recognized MOS certifications for specific Office programs.***

► **PRE-REQUISITE: Successful completion of Computer Applications is a pre-requisite for this class.**

► ***Approved Career and Technical Education Course***

Demonstrate that you have the skills needed to get the most out of Microsoft Office by learning the advanced features and techniques of Word, Excel, Access, and PowerPoint in order to earn a Microsoft Office Specialist (MOS) certification in a specific Office program. MOS certifications give you the tools to build a brighter future by achieving industry-recognized certifications, learning the computing skills companies are looking for, boosting your workforce resume, differentiating yourself from other job applicants, heighten your earning potential (\$), and preparing yourself for a successful future.

## **Media Production (10-11-12)**

**One Semester - 1/2 Credit**

*(formerly Digital Video and Audio / Visual Production)*

► ***Completion of Computer Applications is highly recommended for success in this class.***

► ***Approved Career and Technical Education Course***

Media Production focuses on technical skills and knowledge in all phases of Media Production. Students will explore equipment operations, employability skills, software applications, careers, social networking and media law. Our students not only learn the creative process of filmmaking, but inevitably learn reading/writing (scripting and storyboards), drama (directing, casting, and acting), market (media production and distribution), ambiance (lighting) and technology (visual effects and editing).

## **Graphic Design I (10-11-12)**

**One Semester - 1/2 Credit**

*(formerly Multimedia I & Computer Graphics)*

► ***Completion of Computer Applications is highly recommended for success in this class.***

► ***Approved Career and Technical Education Course***

Expand your skills and knowledge to bring presentations, animations, and graphics together using Adobe Photoshop, Illustrator, Animate, and presentation software. Spend time exploring legal and ethical issues, career opportunities, fundamentals of computer graphics, raster vs vector graphics, tools used to create graphics, 2D & 3D basic animations.

## **Graphic Design II (10-11-12)**

**One Semester - 1/2 Credit**

*(formerly ePublishing II & Commercial Graphic Design)*

- ▶ **PRE-REQUISITE:** *Successful completion of Graphic Design I is a pre-requisite for this class.*
- ▶ **Approved Career and Technical Education Course**

Do you have a design flare but don't know what to do with it? Take what you learned in Graphic Design I, and "step it up a notch!" Graphic Design II takes you down a pathway to exploring advanced graphic design methods, page layouts, typography, color theory, design principles and learning about design elements. Create amazing media projects and learn about various forms of published media. Find out about legal and ethical issues along with career opportunities in the world of design.

## **Web Development (10-11-12)**

**One Semester - 1/2 Credit**

*(formerly Web Page Design I & Web Publishing and Design)*

- ▶ **Completion of Computer Applications is highly recommended for success in this class.**
- ▶ **Approved Career and Technical Education Course**

Web Development is a course designed to guide students in a project-based environment implementing web development techniques. Through the use of hypertext markup language (HTML5) coding, Cascading Style Sheets (CSS), and JavaScript students will plan, design, develop, deploy, and maintain website projects. Students will learn fundamentals for a career in web development as they complete projects and create their own website.

## **Exploring Computer Science (10-11-12) (Central and Stevens only)**

**One Year – 1 Credit**

- ▶ **Completion of Integrated Math 1 is recommended.**
- ▶ **Approved Career and Technical Education Course**

Ever wondered why an algorithm behaves the way it does? Ever needed to "Scratch" a small itch for game programming? How about combining your artistic side and your brainiac side by generating your own data collection and creating an info-graphic using that data? The Computer Science Industry is a dynamic and entrepreneurial environment that has a revolutionary impact on the economy and society. In this year-long course, you'll be part of a team that will learn to be creative in designing computer-based solutions to real-world problems. The tools of your trade will include basic programming, data analysis, game design, navigating the Web, Web page programming and design.