



INFORMATION TECHNOLOGY & COMPUTER SCIENCE 2023-2024

GRADE	COURSES	
9	Introduction to Information Technology 1-Credit	NOTE: Anyone starting the IT Pathway in 10 th grade, may not be able to obtain the <i>CTE Endorsement</i> or the <i>Advanced Regents</i> through this pathway
10	<i>Passed Introduction to Information Technology</i> Computer Hardware & System Support 1 – Credit	Introduction to Information Technology 1-Credit
11 or 12	<i>Passed Computer Hardware & System Support OR Passed Computer Essentials</i> Computer Programming 1 - Credit	<i>Passed Introduction to IT</i> Computer Hardware 1 - Credit
	<i>Passed Computer Hardware & System Support OR Passed Computer Essentials</i> Advanced Computers & Digital Media 1 - Credit	<i>Passed Computer Hardware</i> Computer Programming 1 - Credit OR Advanced Computers 1 - Credit
	Dual Enrollment Course – MCC CRC-125	
	Required for CTE Endorsement Careers & Financial Management- BUSINESS 1 - Credit	

📝 PATHWAY EXAMS = 4 + 1 (5th Regent)

PRECISION EXAMS 801 – INFORMATION TECHNOLOGY FUNDAMENTALS

OPPORTUNITY FOR AN ADVANCED REGENTS → WITH THIS 5 CREDIT PATHWAY



COURSE DESCRIPTIONS

Intro to Information Technology 9th Grade

Description: In this course you will be introduced to the field of Information Technology (Computer Science). You will be looking at the many ways you use IT in your own life from the Internet to video gaming to Chromebook and even cell-phones (pocket-pc's). Each unit includes opportunities to explore using robots, drones, laptops and PC's. On the software side, you will look behind the scenes at how humans have used the computer and software to change the world and the impact of this change on society and the future. Your potential as a video game designer, robotics master or web developer will be explored as you code in: Scratch, Minecraft, Python, and HTML.

Computer Hardware & Systems Support 10th Grade

Description: Computers are everywhere at work, home and in schools. Support for PCs and mobile devices is one of the largest service industries in the world and those who are skilled in how to maintain, support and upgrade are always in demand. Even if tech support is not for you anyone who is thinking of a career in computer networking, programming, or any of the computer sciences, a good foundation in computer technology make learning the other technical areas, such as networking and cybersecurity, much easier. As part of the course you will participate in a series of hands-on labs that lead to you building a PC from scratch, maintaining and repairing PC's, laptops and handheld devices. Since all computers are connected in today's world of cloud computing and Internet of Things you will also learn skills on setting up and troubleshooting network connections using Bluetooth, Wi-Fi and server technologies.

Computer Programming 11-12th Grade

Description: This course is setup for everyone so even if you have little or no programming experience, you will get an comprehensive introduction to Python, one of the top five most popular and user-friendly programming languages. Class time will consist of a mix of instruction in the basics of coding as well as in class hands-on coding exercises to practice applying these concepts. In addition, you will be enrolled in CodeHS where you will get additional independent practice creating fun mini programs that ensure you have ample opportunities to work with designing and writing computer code.

Description: This class has two units

Advanced Computers & Digital Media 11th - 12th Grade

Advanced Computer Applications ** Dual-Enrollment (4 credit) Course MCC CRC 125

This first unit provides you with an in-depth, hands-on introduction to Microsoft Office. You will become proficient in using Word (word processing), Excel (spreadsheet), Access (database management), and PowerPoint (presentation). As this is a dual enrollment with MCC you will have a series of college level projects to complete in each of these programs.

Digital Media Design: This second half of the class you will learn the basics of web design and development, while designing and creating multimedia projects for the web.