BUSINESS AND COMPUTER SCIENCE

Freshman Requirement

Computer Applications CP *(Semester)*
Course No: 74411702

This course is designed to introduce and reinforce the concepts of word processing, spreadsheet design, publishing, video editing, and presentation software as well as networking. Instruction is given for the production of letters, research papers and online databases, tables, spreadsheets, websites, QR codes, apps, document templates, 3-D printing, and multimedia presentations utilizing the computer.

Electives (Business)

Business Law CP *(Semester)*
Course No: 64150702   Grade Level: 10, 11, 12

This course is designed to enable students to relate law to current cases and situations as well as to see the law's implications in their futures. The course is challenging and rewarding with topics including the nature and sources of law, criminal law, trial procedures, contracts, consumer law, employment, family law, and property law.

Principles of Accounting CP *(Semester)*
Course No: 74120701   Grade Level: 10, 11, 12

This course provides students with an opportunity to develop a sound understanding of the basic accounting principles and procedures, to handle daily records and financial activities of a small or medium-sized business, and to use accounting records to make decisions. Technology is used in many of the accounting application problems.

Principles of Marketing *(Semester)*
Course No: 847400701   Grade Level: 10, 11, 12

This course is designed to provide an understanding of the basic principles, theories, problems, and practices involved in marketing in our changing economic environment. Emphasis is placed on the marketing functions including the distribution of goods and services from the producer to the ultimate consumer. Market research and information technology tools will be explored. Students will collaborate with students in other Business and Computer Science classes in an effort to successfully market a service or good.

Electives (Computer Science)

PRE-REQUISITE: Computer Applications. See individual course descriptions for any additional requirements.

AP Computer Science A
Department Approval Required

Course No: 110160741   Grade Level: 10, 11, 12
                                        PRE-REQUISITE: Computer Programming I or AP Computer Science Principles

   NOTE: This course can be used to satisfy the Science Elective graduation requirement.

AP Computer Science is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with computing. Students will study computer systems, primitive data types, standard computer algorithms, and data structures in an object-oriented environment using the Java programming language. This advanced course follows the curriculum set up by the College Board for the AP Computer Science course. Although students will be using the Java programming language, programming skills are the focus of this course. All students are required to take the AP Computer Science exam in the spring.

AP Computer Science Principles

Course No: 110190742   Grade Level: 9, 10, 11, 12

Department Approval Required

NOTE: This course can be used to satisfy the Science Elective graduation requirement.

AP Computer Science Principles introduces students to the central ideas of Computer Science, by encouraging them to be creative as they develop digital artifacts and use simulations to explore questions that interest them. This rigorous course is designed to appeal to a broad audience, and is intended to allow students to develop computational thinking skills as they engage in creative aspects of the field. Concepts from a variety of current programming languages will be utilized to focus on using technology and programming to solve problems that require computational solutions. All students enrolled in this course are required to take the AP Computer Science exam in the spring.

Computer Programming I *(Semester)*

Course No: 110130703   Grade Level: 9, 10, 11, 12

This is a hands on computer programming course that introduces students to computational thinking using various programming languages. The student will focus on problem solving, logic, critical thinking, language syntax, top-down structure, reading internalization and documentation. Class activities include programming in several languages. The knowledge and skills gained in this course can easily be transferred into real-world projects such as mobile applications and robotics.

Computer Publishing and Graphics CP *(Semester)*

Course No: 70000703   Grade Level: 9, 10, 11, 12

This course is designed to enable students to develop a high level of operational skill on the computer integrating graphics software programs such as Photoshop and Animate. Authentic assessment is through the production of projects and multi-media presentations displayed on a student designed and created web site.

Media Technology CP *(Semester)*

Course No: 114280702   Grade Level: 9. 10, 11, 12

Students create professional quality video utilizing computing technology integrating Premiere, After Effects, and Audition software. Students plan and develop videos demonstrating filming techniques and create promotional media for school events. The course provides an environment for students to develop competency in media literacy, including critical thinking and self- expression. Students progress through different production roles, including those of videographer, director, and producer. There will be additional time spent out of class shooting footage and editing video.

Web Design CP *(Semester)*

Course No: 114310701   Grade Level: 9, 10, 11, 12

This web design class provides a thorough introduction to implementing a full-featured web site on the Internet or intranet. The course starts with an introduction to the Internet and progresses to the implementation of dynamic client- side content using HTML 5, CSS 3 JavaScript, and web design software. Students enrolled in this course will be introduced to simple computer programming, in addition to creating, designing, and developing actual web pages.