

## Course Descriptions—Marty Powell

### ALGEBRA II -- 10, 11, 12 (Year)

Algebra II covers the structure of systems of real and complex numbers. Fundamentals of functions, lines, quadratics, matrices, conic sections, exponents and logarithms, sequences and series, and statistics and probability are studied in the course.

PREREQUISITE: Algebra I

### COLLEGE ALGEBRA -- 11, 12 (Year)

This course is a college level BCCC Course taught at EHS. This is a “Dual Credit” Course taken for high school and college credit. Algebra II covers the structure of systems of real and complex numbers. Fundamentals of functions, lines, quadratics, matrices, conic sections, exponents and logarithms, sequences and series, and statistics and probability are studied in the course. BCCC Tuition/Fees are the responsibility of the student.

PREREQUISITE: Algebra I and a valid ASSET Test Score

### CALCULUS -- 12 (Second Semester)

This course is designed to get students ready for college calculus. A pre calculus review is included, along with functions, graphs, and limits. Differentiation with applications is a course highlight. PREREQUISITE: Algebra II.

### TRIGONOMETRY -- 12 (First Semester)

Trigonometry is a semester course in which the concepts of polar coordinates, the six (6) trigonometric functions and their inverses, the fundamental relations between the trigonometric functions, the complex number system, exponential and logarithmic functions are studied. Solving triangles is covered extensively. Practical problems involving the use of the trigonometric functions are also discussed. PREREQUISITE: Algebra II

### WEB PAGE DESIGN I -- 10, 11, 12 (Year)

Web Page Design I is a course designed to have students learn to use Dreamweaver software to learn to create and design web pages. Fundamentals of good web page design and internet use are emphasized. Students learn the beginnings of creating their own personal web pages. PREREQUISITE: Business Computers I

### WEB PAGE DESIGN II -- 11, 12 (Year)

Web Page Design II is a course designed to have students learn to update and maintain the district's web site. Students will become familiar with scanning graphics, taking pictures with a digital camera, and creating their own graphics to put on web pages. Students will update various pages on the district's web site.

PREREQUISITE: Web Page Design I

### VIDEO PRODUCTION I -- 10, 11, 12 (Year)

Students will learn how to create a video production. This is accomplished doing the three phases of production: preproduction, production, and post-production. Preproduction: Writing scripts or making storyboards. Production: Using digital cameras to shoot your footage. Postproduction: Editing footage using iMovie software.

PREREQUISITE: Business Computers I

### VIDEO PRODUCTION II -- 11, 12 (Year)

Students will use advanced techniques to make video productions. This is accomplished by doing the three phases of production: preproduction, production, and post-production, and creating the all-sports highlight video.

PREREQUISITE: Video Production and Editing I

COMPUTER SCIENCE 7 -- 7 (year)

Computer Science 7 is a class designed to build a solid foundation for fundamental computer skills necessary for today's students. Key concepts incorporated throughout the course include keyboarding and word processing skills using Microsoft Word.

COMPUTER SCIENCE 8 -- 8 (year)

Computer Science 8 is a class designed to build a solid foundation for fundamental computer skills necessary for today's students. Key concepts incorporated throughout the course include keyboarding, word processing skills, and beginning spreadsheet skills using Microsoft Excel.