

Pre-Calculus/Calculus (Seniors) Full Year 1 Credit

Prerequisite: Algebra, Geometry, and Algebra II/Trigonometry or equivalent

Recommended: approval of previous Math Instructor

This is a full year course intended to prepare students for college math courses required at most liberal arts colleges as well as to prepare students for required courses for a career in engineering or some other phase of mathematics. Most importantly, it will help “train the brain,” enabling students to become better problem solvers and logical thinkers. Concepts presented in previous math courses will be reviewed as necessary.

Students will be taught pre-calculus during the first semester and will be introduced to basic calculus topics during the second semester.

Pre-Calculus – Accelerated Grade 11 Full Year 1 Credit

Prerequisite: Algebra ACC, Geometry ACC, and Algebra II/Trigonometry ACC or equivalent

Recommended: approval of previous Math Instructor

This is a full year course intended to prepare students for a full year of calculus next year. It will also help students prepare for college math courses required at most liberal arts colleges or for required courses for a career in engineering or some other phase of mathematics. Most importantly, it will help “train the brain,” enabling students to become better problem solvers and logical thinkers.

This is a rigorous course designed for students that have mastered the concepts presented in previous math courses.

Introduction to Calculus AP Full Year 1 Credit

Prerequisite: Algebra, Geometry, and Algebra II/Trigonometry or equivalent

Recommended: Pre-Calculus or approval of previous Math Instructor

This course is designed for highly motivated seniors; particularly those who will need to study Calculus in college. The course will cover limits and continuity; derivatives and their applications; basic integrals and their applications, particularly with respect to area and volume; logarithmic and exponential functions, and their applications. This course should provide the student with an excellent background in Calculus. Students may receive 4 hours college credit through Clinton Community college for this course.

Introduction to Statistics One Semester ½ Credit

Prerequisite: TBA (This is being updated by CCC)

Recommended: Approval of previous Math Instructor

Statistics is a one-semester course designed for the college-bound student. The course involves the analysis of data, measures of central tendencies and dispersion of data. The normal curve and normal distribution will be covered along with their applications of random sampling, statistical hypothesis, confidence limits, and statistical inferences. This course should be an elected in addition to and not in place of math courses needed for college. Students may receive 3 hours college credit through Clinton Community College for this course if prerequisites are met and fees are paid.

Media Arts (aka Introduction to Computer Multimedia) One Semester ½ Credit

Prerequisite: At least one semester of keyboarding

Introduction to Computer Multimedia is an elective that accentuates using the computer “as a tool.” Students will be introduced to beginning web design, presentation software, and multimedia development software. Students will use the software to develop multimedia presentations in curriculum areas. The students will also be required to teach another student or staff member one of the tools they have learned.

Advanced Computer Multimedia**One Semester****½ Credit**

Prerequisite: Media Arts

Recommended: By the instructor

Advanced Computer Multimedia is an elective. Students will be introduced to advanced web design using HTML, web graphics development using Flash, and the filming and making of videos and commercials using Windows Movie Maker, Adobe Premiere and iMovie on the iMacs. A video podcast will also be made using several video tools and Garage Band on the iMacs. There will be a strong emphasis on the ethical and safe use of technology.