

Tiverton High School New Courses

Program of Studies 2018-2019

AP Computer Science 612 - I 4 Terms 5 Periods/Cycle 5 Credits

Course Description: This is a full-year, rigorous course that introduces students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, data, digital privacy and security. The course seeks to ensure students are prepared to engage with an increasingly digital society, economy, and culture. Enrolled students are expected to take the AP Computer Science exam in May.

Prerequisite: Completion of Summer Reading/Writing assignment is required and will count toward the term one grade.

Intermediate Algebra 468 - II 4 Terms 5 Periods/Cycle 5 Credits

Course Description: Intermediate Algebra is offered to students as a third year math course. One semester will expand on algebraic concepts and applications, including quadratic, polynomial, exponential and logarithmic functions. Topics of the second semester will concentrate on quantitative literacy and reasoning as applied to management science, social choice and business efficiency. (course aligns to CCSS).

Prerequisites: Algebra 1 and Geometry

Creative Writing 185 - I 4 Terms 3 Periods/Cycle 2.5 Credits

Course Description: This course is designed to introduce students to a style of writing that is different from traditional analytical writing. Students will be required to experiment and challenge themselves to write in varied forms. Students will be expected to keep a journal which compiles class assignments such as: journal prompts, free-writing exercises, descriptive, reflective, dramatic and narrative writings, and character sketches. Examples of major assignments include fiction, nonfiction, and poetry. Students will participate in collaborative writing, peer-editing, and revision.

Prerequisites: Expected enrolled students would be 11th and 12th grade students

Astronomy 545 - II 4 Terms 5 Periods/Cycle 5 Credits

Course Description: This course will provide students with an introduction to the concepts of astronomy, the origin and history of the Universe and the formation of the Earth and the solar system. Through the use of elemental analysis and spectroscopy, students will compare the Earth's chemical properties with those of the other planets. The laws of universal gravitation and planetary motion, Doppler Effect, Blackbody Radiation Theory, and Nuclear Fission and Fusion are among topics for class discussions in this course. In addition, students will learn how astronomers have used tools to obtain information about the universe and students will use these tools for observing current day space and space travel. Experiments will be conducted and students are expected to make observations of the nighttime sky.

Prerequisite: 9th Grade Physical science