

Dual Enrollment Agreement
Thaddeus Stevens College of Technology AND Bucks County Technical HS

BCTHS Course	TSCT Course
<p>Honors English 12: This course will integrate all of the communication skills including reading, writing, listening, and speaking through a thematic approach. This course is intended for students who are serious about reading extended pieces of literature as well as writing on a regular basis. Students will be required to complete a research paper each semester. SAT preparation is included in this course.</p>	<p>English 106 English Composition 1: Develops fluency in writing. Creates interest in and respect for proper usage, sentence structure, and precise expression.</p>
<p>Honors Pre-Calculus: This course will prepare college-bound students for the study of calculus at an accelerated pace. The course includes a thorough study of algebraic concepts, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometry, sequences and series, introduction to limits and calculus. A limited number of sections will be available.</p>	<p>Math 137 Intermediate Algebra: This course reviews the structure and use of algebra through a combination of topics including polynomials, first-degree equations, quadratic equations, exponents, radicals, and systems of linear equations. Graphing first and second-degree equations is emphasized.</p>
<p>Academic Physics 12: Provides students with a practical science course that will give them both the hands-on experience industry demands and the fundamental problem-solving skills that they will need to face the changing environment of their career fields. It applies physics principles to technological situations and concentrates on the use of physics formulas in the workplace rather than on their derivation or optimization. The format is unique because it introduces relationships of the four energy systems - mechanical, fluids, electrical and thermal. Students work primarily in small groups and practice their problem-solving and mathematical skills while learning physics. They learn to differentiate among different types of experimental, equipment and operator error by comparing the results of all teams. An explanation of what goes wrong is often more valuable in the work world than knowing the ideal answer. Math is used to extend the understanding of the concepts. This course is recommended for students considering college.</p>	<p>Physics 106 Physics for Everyday Life: Brief overviews of physics. Includes motion, work, power, energy, and properties of matter, sound, and light. Electrodynamics, atomic physics, and nuclear physics are also discussed. Basic mathematical and algebra skills utilized.</p>
<p>Honors Physics 12: This class is intended for students who are planning to study a technical or engineering subject at a four-year college. The principles of mechanics are introduced via a math-based college freshman text. Labs and small group projects are utilized to explain real-world differences from the textbook 'pure' answers. This is not just a higher-level version of the Academic Physics course; the analytical depth and breadth is extensive.</p>	<p>Physics 213 General Physics I: This is a four-credit, algebra-based physics course in which one of the credits is devoted toward lab work. The course is an in-depth study of statics, kinematics, dynamics, work, power, energy, and the properties of matter.</p>

TSCT Info:

http://www.nxtbook.com/stevenscollege/ThaddeusStevens/2018_2019_Academic_Catalog/index.php#/114