

SBHS Summer Institute-2022 Course Booklet

Course registration for in-district students will open on February 18th. Students will enroll via the Community Pass website. Enrollment for Out of District students will open on March 1. Out of District students must download a paper application and mail it to South Brunswick high school with a check for course fees.

The 2022 Summer Institute will begin on Monday June 27th and courses will follow the schedule below.

- 6-week session: June 27th to August 5th.
- 3-week session I: June 27th to July 15th
- 3-week session II: July 18th to August 5th.

Classes will run Monday to Thursday in person with the possibility of virtual Friday classes. (synchronous or asynchronous). Visit the SBHS Summer Institute webpage for program updates and announcements.

Courses for Advancement- These courses earn credit for SBHS students	Grade Levels	Fee	Dates
<p>Advanced Biology I (5 Credits) Advanced Biology I is designed to introduce students to Life Science. Students in Advanced Biology I will carry out experiments, learn concepts, and use a variety of strategies to learn about ecology, biochemistry, classification, cells, reproduction, genetics, evolution, botany, and a survey of living things. Emphasis will be on higher level thinking skills, writing assignments, oral reports and projects.</p> <p>Advanced Biology I meets the requirements of colleges and universities as a lab science course. Therefore, a college-level textbook will be used. Students are expected to have independent study skills, a strong interest in science, and the motivation to work hard and successfully complete all labs throughout the duration of the course. Students' grades are based upon class assignments, class activities, presentations, laboratory work, laboratory reports, homework, tests, quizzes and a variety of other assessments.</p> <p>Prerequisite: 1) 95% in English I, or 95% English II, or 90% in English I/Academic I, or 90% in English Academic II, or 83% in Honors English I or 83% in Hon. English II and 2) 90% in PES or 83% in Chemistry or 77% in Hon. Chemistry</p> <p>Note: Space is limited so register early. In addition, students cannot be placed in AP-level science for the 2022-2023 school year. They will qualify for 2023-2024 if they meet all pre-requisites.</p>	<p>10,11</p>	<p>\$1100 In district</p> <p>\$1210 Out of District</p>	<p>Mon-Fri June 27 - August 5, 7:15-12:00</p>

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<p>Advanced Chemistry I (5 Credits) This course emphasizes content and theory. It is designed for students planning careers related to science. The main topics included are: measurement, modern atomic theory, the mole concept, formulas and equations, chemical calculations, acids and bases, chemical bonding, periodic properties, equilibrium, oxidation, reduction.</p> <p>Prerequisite: 83% in Algebra I <u>or</u> 77% in Algebra II or 65% in Adv. Algebra II <u>or</u> 65% in Honors.</p> <p>Note: Space is limited so register early. In addition, students cannot be placed in AP Chemistry/Biology for the 2022-2023 school year. They will qualify for 2023-2024 if they meet all prerequisites.</p>	9, 10, 11	\$1100 In district \$1210 Out of District	Mon-Fri June 27-August 5, 7:15-12:00
<p>Advanced Geometry (5 Credits) This course is designed to help students develop an understanding of geometric concepts and an ability to apply them in a variety of situations. Topics will include properties of angles and segments, parallel lines, triangles, quadrilaterals, polygons, and circles. Students will be able to use these properties to solve problems involving congruence and similarity, right triangles, area and volume, and coordinate geometry. This course enables students to accelerate in mathematics and prepare students for Advanced Algebra II.</p> <p>Prerequisite: Algebra I with a grade of 93% or better for T1 and T2 and going into 9th for the 2022-23 school year.</p> <p>Note: Space is limited so register early. To be considered for advancement, the student must achieve an 85% or better as a final grade. Completion of the summer course in Advanced Geometry will not qualify students for AP-level science courses.</p>	9,10, 11	\$1100 In district \$1210 Out of District	Mon-Fri June 27-August 5, 8:00 12:00
<p>Intro to Web Design (2.5 credits) With technology jobs on the rise, coding skills will be in high demand. Intro to Web Design introduces students to the basics of coding through the essential languages for web design, which includes HTML, CSS, Bootstrap, and jQuery. Students will be able to create and host web pages using the same tools professionals using including Sublime and GitHub. By the end of the course students will be able to build a full website with a navigation bar, a footer bar, a home page, and article pages. This is a great course to open the door to the world of computer languages and web development.</p> <p>Note: Space is limited so register early. This is a hybrid <i>in-class</i> and <i>online</i> course. In class lessons will meet on Mondays, Wednesdays and Fridays. *</p>	10,11, 12	\$550 In district only	Mon-Fri June 27-July 15, 8:00-12:00 *
<p>Personal Financial Management Session I (2.5 Credits) offered during <u>session I</u> This course is designed to inform students how personal finance directly correlates to their future success. Students will be exposed to the following topics: income and careers, money management, credit and debt management, planning, saving, and investing, becoming a critical consumer, and risk management and insurance. Students will learn how to set and prioritize financial goals, develop spending plans, obtain financial security,</p>	11,12	\$550 In district only	Mon-Fri June 27-July 15, 8:00-12:00

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<p>distinguish between wealth and income, and calculate the time value of money. This course will empower students to make informed financial decisions and recognize outcomes that promote financial independence.</p> <p>Note: This course is offered during Session I: 6/27 – 7/15. Space is limited so register early.</p>			
<p>Personal Financial Management Session II (2.5 Credits) offered during <u>session II</u> This course is designed to inform students how personal finance directly correlates to their future success. Students will be exposed to the following topics: income and careers, money management, credit and debt management, planning, saving, and investing, becoming a critical consumer, and risk management and insurance. Students will learn how to set and prioritize financial goals, develop spending plans, obtain financial security, distinguish between wealth and income, and calculate the time value of money. This course will empower students to make informed financial decisions and recognize outcomes that promote financial independence.</p> <p>Note: This course is offered during Session II: 7/18 – 8/5. Space is limited so register early.</p>	11, 12	\$550 In district only	Mon-Fri July 18 – August 5 8:00 – 12:00
<p>Online Personal Financial Management (2.5 Credits) This course is designed to inform students how personal finance directly correlates to their future success. Students will study the following topics: income and careers, money management, credit and debt management, planning, saving, and investing, the traits of a critical consumer, risk management, and insurance. Students will learn how to set and prioritize financial goals, develop spending plans, obtain financial security, distinguish between wealth and income, and calculate the time value of money. This course will empower students to make informed financial decisions and recognize outcomes that promote financial independence.</p> <p>Note: Space is limited so register early. This course will be filled on a “first come, first served” basis.</p> <p>This course will run from June 28th to July 23rd. Daily coursework is expected to be 3 hours a day of work with 2 required hours of synchronous zoom sessions (1 Monday & 1 Wednesday between 9am -10am or 12pm -1pm). Students are required to log into one of the zoom sessions for an hour during the assigned time. Session registration for specific synchronous time slots will be available after the registration window closes</p> <p>The teachers of the online course will contact their class via their sbstudent accounts to give the class zoom link, designated hour of instruction for their Monday/Wednesday sessions and a syllabus. A mandatory zoom orientation session will take place on Thursday, June 16th at 3pm. Again, links and reminders will be emailed to students, by their summer instructors.</p>	11, 12	\$550 In district only	June 27- July 21 In person final exam on 7/21/22 at 9am
Courses for Enrichment	Grade Levels		
<p>College Academy (non-credit course) Each September high school seniors begin the process of submitting college applications. This academy is designed for 12th graders who want an early start to the college application process. This academy will provide seniors with that early start to the college application process. Initially participants will be provided the opportunity to create a well-balanced list of colleges and universities. The full Common Application with updated essay prompts is made available to students each year on August 1st, which allow participants the opportunity to complete a major portion of this college application. We ask that you do not set up an account until the workshop begins in order to ensure consistency with this process.</p> <p>This application is one that is utilized by over 900 institutions nationally. A portion of the academy will also focus on the initial development of the college essay. Early admission options, interview process and the development of a resume will also be covered.</p>	SBHS 12th graders	\$225 In district only	August 8 - 11 9:00-12:00

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<p>Participants will also become more familiar with the Naviance program as it relates to the college application process.</p>			
<p>College Essay Seminar (Non-credit course) 3 Week Online Hybrid Course The college essay is one of the only areas in the college essay that students are able to present themselves as individuals, and not just as a compilation of test scores, activities, and grades, mirroring most other students in the application pool. This makes the college essay an integral part of the student’s application.</p> <p>Students will view and consider exemplars and model essays, learn and understand what college admissions officers expect, and write several essays on a variety of common application topics, including the short responses and supplemental essays that most competitive colleges also require.</p> <p>Students will receive guidance and continuous feedback from the teacher through the online format throughout the writing process. Students will also have the option to meet in-person once a week for conferencing. Essay topics will be those used on previous college applications, the common application, and specific topics students receive from their own colleges of interest, so as to be tailored to their needs.</p> <p>Note: This hybrid/online course is taught and facilitated by an SBHS English teacher. The course is conducted primarily online through Google classroom with an (optional) weekly in-school meeting for the teacher to conference with students.</p>	<p>12th grade</p>	<p>\$275 In district only</p>	<p>Online course June 27 to July 15 Optional Zoom conferences available throughout the duration of the course</p>
<p>Jump-Start Algebra (Non-credit course) This course centers on building the foundation of algebra in preparation for an Algebra I course. Using Chrome Books as a digital tool for learning, this course will focus on variables, expressions, order of operations and basic problem-solving skills. Students will build on their basic knowledge of absolute value, the coordinate plane and different algebraic properties by learning how to solve multi-step equations and inequalities, and the complex algebraic functions that accompany them, such as exponents. They will build on their existing knowledge of fractions by examining ratios, proportions and probability, and converting to/from decimals.</p> <p>Note: Space is limited so register early. This course is designed for students completing Concepts of Algebra with a grade of 70% – 80% in grade 8. Based on the teacher’s recommendation, students completing this course may be moved from Elements of Algebra I into Algebra I.</p>	<p>9, 10</p>	<p>\$550 In district \$605 Out of District</p>	<p>Mon-Fri June 27-July 15, 8:00- 12:00</p>
<p>Prep for Advanced Physics (Non-credit course) This course centers on building the foundations and ensuring a smooth transition into the advanced courses in physics offered at the high school – namely, Honors Physics and AP Physics 1. This course includes, but is not limited to, a review of fundamental concepts in Physics, computational skills, calculator skills, analysis of data, and graphing skills essential to building a strong foundation for a successful learning experience. It is intended for students who would benefit from additional support, such students that are on the cusp of meeting the requirements, and students who are concerned about their readiness and grasp of essentials necessary to meet the rigor and challenge expected for success in either Honors Physics or AP Physics 1. Students taking this course will be exposed to many of the skills and physics content covered in the first quarter of the year, and so, they will have a much easier time when they encounter the material during the school year.</p> <p>Prerequisite: Students must have met the prerequisites and be registered in either Honors Physics or AP Physics 1 for the 2022-2023 school year.</p> <p>Note: This is not a test preparation course for the AP</p>	<p>8, 9, 10, 11</p>	<p>\$550 In district \$605 Out of District</p>	<p>Session I Mon-Fri June 27-July 15, 8:00- 12:00 Session II Mon-Fri July 18 – August 5 8:00 – 12:00</p>
<p>SAT/ACT Preparation: Reading, Writing & Language Sections (Non-credit course) Preparing for the Reading, Writing & Language, and Essay sections of the SAT and ACT tests can be daunting. This course will inform students of test-taking strategies specific to</p>	<p>10, 11, 12</p>	<p>\$550 In district</p>	<p>Mon-Fri June 27-July 15, 8:00-</p>

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<p>these sections of the SAT and ACT. In addition, students will prepare for these sections using SAT and ACT practice texts (including taking one full timed test each week to mark progress), as well as other sources. This course is a not-to-be missed opportunity for focused instruction and guidance in preparing for college entrance tests.</p> <p>Note: Space is limited so register early.</p>		\$605 Out of District	12:00
<p>SAT/ACT Preparation: Mathematics (Non-credit course) Preparing for the Mathematics Section of the SAT and ACT tests can be challenging. This course will inform students of test-taking strategies specific to the mathematics section of the SAT and ACT. In addition, students will prepare for the Mathematics sections using practice texts, as well as other sources. This course is a not-to-be missed opportunity for focused instruction and guidance in preparing for college entrance tests.</p> <p>Note: Space is limited so register early.</p>	10, 11, 12	\$550 In district \$605 Out of District	Mon-Fri July 18 – August 6 8:00 – 12:00

Courses for Enrichment	Grade Levels		Dates
<p><i>Robotics with VEX IQ and Coding with ROBOTC</i></p> <p>The Robotics with VEX IQ and Programming with ROBOTC course is designed to introduce students to and explore ideas, concepts and skills of robotic engineering and coding using the VEX IQ robotics kit and ROBOTC coding language. Students will design, build and write code to program their robots to accomplish a variety of tasks under the guidance of a Technology Education teacher. Through their work, students will explore many engineering topics such as sensors, gears, pulleys and linkages while solving many different real-world challenges. In addition, students will be expanding their knowledge of the world of coding using the ROBOTC language to bring their creations to life!</p>	Entering 7th Gr. - 12th Gr.	\$550 In district \$605 Out of District	Session I: June 27 - July 15 Session II: July 18 - August 5 8:00 – 11:00
<p><i>Electronics Engineering, Coding & Robotics with SparkFun</i></p> <p>The Electronics Engineering, Coding and Robotics with SparkFun course is designed to introduce students to electronic engineering, coding and robotic engineering. Students will be challenged to design, build and program many different real-world challenges with their SparkFun kit during the three-week course under the guidance of the classroom teacher. Students will be learning about how to program in C/C++ with the Arduino IDE, basic electrical engineering by breadboarding and design principles while creating custom robots.</p>	Entering 7th Gr. - 12th Gr.	\$550 In district \$605 Out of District	Session I: June 27 - July 15 Session II: July 18 - August 5 8:00 – 11:00
<p>Digital Video and Media Creation</p> <p>This course is designed to introduce students to digital video production as well as visual design software. Students will write, plan, rehearse, videotape and edit several short video projects. Materials such as cameras, tripods, and computer editing software will be used, giving students the opportunity to improve their skills in public speaking, collaboration, language arts and media technology. Additionally, in the second half of the course, students will participate in several digital photography projects that utilize software similar in nature to Photoshop. All work will be downloaded to students' Google Drive accounts to keep and share.</p>	Entering 7th Gr. - 12th Gr.	\$550 In district \$605 Out of District	Session I: June 27 - July 15 Session II: July 18 - August 5 8:00 – 11:00
<p>Digital Design and Architecture</p> <p>This course is designed to introduce students to design, engineering, and architecture through the use of various platforms such as Vectr, Tinkercad, 3D printing, and Laser cutting. Students will consider the design process as they work through each challenge. They will have a hands-on approach to designing, troubleshooting, and building. Each skill developed in this course will prepare them for future engineering and design courses</p>	Entering 7th Gr. - 12th Gr.	\$550 In district \$605 Out of District	Session I: June 27 - July 15 Session II: July 18 - August 5 8:00 – 11:00

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