



BRUNSWICK HIGH SCHOOL

2024-2025 Elective Offerings

Class offerings are not finalized until the end of the registration process. Course offerings are dependent upon student enrollment and staffing. *Some courses require prerequisites before enrollment. Please check*

the Course Offerings Guide at <https://www.fcps.org/hscourseguide> for more information and full course descriptions.

§ = Courses that meet the Financial Literacy graduation requirement

AGRICULTURE EDUCATION

Intro to Agricultural Science & Technology (§): Examines the impact of financial literacy and technology within the agricultural industry. Students explore agricultural leadership, animal science, plants, agricultural engineering and environmental and natural resource management.

Engineering Design & Applications (formerly Foundations of Technology): Meets the Tech Ed graduation requirement - Students use creative problem solving and computational thinking to develop solutions using Computer Aided Design, modeling and prototyping, and basic computing concepts.

Engine & Power Technology 1 & 2, and Advanced Mechanics: An intensive study of the theory, operation, maintenance, and repair of two- and four-cycle small and multi-cylinder engines. Students work on engines, applying academic skills to real practice.

Auto Mechanics 1 - 3: This program prepares students to service and maintain all types of automobiles. It includes instruction on the diagnosis of malfunctions and repair of engines, and fuel, electrical, cooling, brake, drive train and suspension systems.

Horticulture (Plant Science) 1-3: Students raise plants for themselves and for sale in the school's greenhouse. They learn how to reproduce plants and make flower arrangements.

Forestry & Wildlife: Students develop skills in wildlife identification, wildlife management, soil and water conservation, forest ecology, forest management, aquaculture, and outdoor recreation.

Pre-Vet: Small Animals: Provides basic knowledge and skills needed to care for and work with small animals.

Pre-Vet: Large Animals: Provides basic knowledge and skills needed to care for and work with large animals.

ART

Level 1 courses meet Fine Art graduation requirement except Publications

Ceramics: Students will use their hands to work with clay to create completed sculptures. Students will learn about clay, the firing process, glazing, safety in the studio, materials associated, etc.

Sculpture: Students will work with their hands to explore a variety of materials to create 3-dimensional artworks that will make up their portfolio (a collection of their work: notes, sketches, artist research, self evaluations, critiques, etc.).

Computer Graphics: Students will create designs utilizing Adobe Photoshop and Illustrator, as well as learn how to understand and exploit how the human brain reacts to visual stimuli. The basic four components- What is graphic design? The design process. Composition. The computer programs Adobe Photoshop and Illustrator will be explored.

Digital Photography: Students will learn the basic concepts of digital photography, learning the basics of Photoshop CS3 software and its applications to digital photography. Students will photograph, manipulate, and print a wide variety of quality photographic art works to create a process portfolio.

Drawing & Painting: This course allows the student to explore and produce a wide variety of artworks in two dimensions in order to create a process portfolio. The class will cover a unit in drawing, painting, and art history.

AP Studio Art 2D: Through studio practice, application of design concepts, and informed decision making, students will assemble a body of artwork (Sustained Investigation) that demonstrates a high level of quality and growth over time of content, technique, and process. (Students must have taken at least Drawing & Painting 1-3 to sign up for this course.)

AP Studio Art 3D: Through studio practice, application of design and sculpture construction concepts, and informed decision making, students will assemble a body of artwork (Sustained Investigation) that demonstrates a high level of quality and growth over time of content, technique, and process.

(Students must have taken at least Ceramics or Sculpture 1-3 to sign up for this course.)

Publications: This course in yearbook journalism has two primary objectives: (1) to teach students the skills required to create a publication and (2) to produce the school yearbook.

Unified Art: This course provides students with and without disabilities the opportunity to co-experience all forms of art activities in their least restrictive environment for the Art 1 curriculum. Students focus on improving competency in creative problem solving, fine motor, and communicative skills through art. Selected students will assist others.

THEATER

Theatre 1 - 4: Level 1 meets the Fine Art graduation requirement. Theater 2-4 explores acting principles and theories to develop student's ability to perform and appreciate theater independently and with others. Higher levels require a C or better in the previous course and teacher approval.

Tech Theatre 1 - 2: Must take Theater 1 as a prerequisite. Students will use terminology learned in Theater 1 to develop an understanding of various technical aspects of theater including set design and construction, lighting, sounds, hair and makeup, costumes, and even stage management. Higher levels require a C or better in the previous course and teacher approval.

BUSINESS

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FCC BMGT 103 Intro to Business (§): Meets the Personal Financial Literacy graduation requirement only when taken at BHS, not at FCC - BMGT103 allows students to experience a college level business course focusing on foundational components of business.

Principles of Business Management and Entrepreneurship (§): This course enables students to acquire a realistic understanding of business processes and activities, the role of business in society, and the importance of entrepreneurship in our market economy.

Principles of Finance and Accounting (§): This course introduces students to a wide range of accounting and finance concepts and skills, focusing predominantly on the accounting cycle, financial statements, and short-and long-term financial management.

Advanced Accounting: This course expands students' understanding of financial accounting, payroll and accounts receivable and payable as well as introduces them to more advanced topics including managerial accounting, corporate accounting, and capital investing.

Advanced Business Management: This course expands students' understanding of management and entrepreneurship Topics include: leadership styles, types of business ownership, creating a business plan, management functions, manager/entrepreneur responsibilities, and career information. Focus will be on the role of business in society; the changing nature of contemporary business practices; major management concepts, the processes of management, business law and ethics, and business communications. Activities are used to develop skills in decision making, leadership, stress management, communications, marketing, finance, and selecting and managing employees.

Principles of Marketing: This course Introduces the student to the essential concepts of marketing theory required to provide the goods and services to meet the consumers' wants and needs. Includes analysis of social media marketing and consumer influencing.

Interactive Digital Media 1: This NEW course combines digital video production, web page design and animation skills in the development and creation of digital video productions that are relevant to and representative of the numerous and varied activities that take place within a high school. Products may include school-based broadcasts, public service announcements, and a video compilation of the year's events. Students will prepare to successfully earn Adobe certification.

COMPUTER SCIENCE

Foundations of Computer Science (Honors): Meets the Tech Ed graduation requirement - Students are introduced to a broad base of computer science topics including web development, Python programming, hardware, and cybersecurity. Students will engage in activities designed to develop problem solving skills and gain an understanding of computer science principles necessary for 21st century careers.

AP Computer Science Principles (Honors): A rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This course prepares students for the AP Comp Sci Principles test in the Spring. (Students must have taken Foundations of Comp Sci to sign up for this course.)

Advanced Computer Concepts (Honors): This course provides students with an understanding of cybersecurity and ethical hacking concepts as it relates to web development, programming, and everyday life. Students will learn to design and create projects with a greater understanding of securing systems and the need for encryption of data. This class features U.S. Cyber Range Kali Linux virtual machine labs where students can practice security and ethical hacking skills in a safe and enclosed digital environment. (Students must have taken either AP Principles or AP A (Java) to sign up for this course.)

AP Computer Science A (Java) (Honors): The course emphasizes both object-oriented and problem solving design using the Java programming language. Topics include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. This course prepares students for the AP Comp Sci A (Java) test in the Spring. (Students must have taken Foundations of Comp Sci to sign up for this course.)

ENGLISH

Creative Writing: This is an elective course for students who wish to apply composition skills in fiction, poetry, autobiographical essays, and other forms of creative writing.

Film Study: This course is an analytical and interpretive study of film masterworks. The course covers the artistic, technological, social, and economic impact of film on viewers in our society.

Journalism: This course helps students learn and apply skills related to news, writing, editing, interviewing, and publication for the school newspaper.

AP Language & Comp: This college-level course prepares students for the AP examination in English Language and Composition.

AP Literature & Comp: This college-level class prepares students for the AP examination in English Literature and Composition.

FCC ENGL 101 English Composition: Develops students' ability to use writing, reading, research, and thinking processes to create documented essays that demonstrate the conventions of academic writing.

FCC ENGL 102 English Composition and Literature: Reinforces, through an examination of literature, the reading, writing, critical thinking, and informational literacy skills introduced in English Composition.

CHILD DEVELOPMENT ASSOCIATE (CDA) & HUMAN SERVICES

CD1: Child Growth & Development

CD2: Learning in the Preschool Environment (\$)

CD3: Child Development Associate Portfolio & Internship 1 - or -

FCC ECED 125 - Methods and Materials in Early Childhood - Virtual Class

CD4: Child Development Associate Portfolio & Internship 2

These courses introduce students to the study of children through classroom activities, observations of children and actual experience with children in the Preschool setting.

MATHEMATICS

Intermediate Transitional Algebra (ITA): This course is for students who have completed Geometry and Algebra 1 yearlong. It provides students with more practice with those skills before taking Algebra 2.

Contemporary Financial Algebra (formerly "Contemporary Math") (\$): This course engages students with real-world financial applications while maintaining deep mathematical rigor. Each unit in the course blends core personal finance topics with core mathematics content to support students as they become financially and mathematically literate consumers.

Advanced Algebra: This course is for students who have completed Algebra 2 and need more practice with those topics in preparation for Pre-Calculus. This course is typically taken in the fall along with Pre-Calculus in the Spring.

Pre-Calculus Honors: This course is for students who have successfully completed Algebra 2 Honors and/or Advanced Algebra. Topics are continued and extended from Geometry, Algebra 2 Honors, and Advanced Algebra. This course prepares students to take AP Calculus.

Statistics & Probability Honors: This course is for students who successfully completed Algebra 2. The two main topics are descriptive and inferential statistics, breaking down each one per term.

FCC MATH 120 Statistics: A dual enrollment course that includes topics in statistics and probability. Algebra 2 is a prerequisite for this course.

FCC MATH 145 College Algebra: A dual enrollment course that is similar to Advanced Algebra. Algebra 2 is a prerequisite for this course.

AP Calculus 1A/1B: In this rigorous yearlong AP course students learn about functions, limits and continuity, differentiation, integrals, etc. Pre-Calculus is required. It is expected that students will take the AP Calculus I test in May.

AP Calculus 2BC: This rigorous AP course continues the study of Calculus 1. It is expected that students will take the AP Calculus II test in May.

MUSIC

Level 1 courses meet Fine Art graduation requirement

Performing Ensembles:

Concert Band: Perform a variety of music in our spring concert and at graduation. Must play an instrument, but new members are welcome to join the percussion section.

Marching Band: Perform at all home football games and competitions. This ensemble is co-curricular. Must play an instrument, but new members are welcome to join our front ensemble.

Color Guard: Members perform with the marching band by both spinning various equipment and dancing. No prior experience required.

Mixed Chorus: Perform a variety of music in our concert and at graduation. No prior experience required.

String Orchestra 1-4: Perform a variety of music in our concert and at graduation (if in spring semester). Must play an instrument.

General Music Classes:

Guitar 1-4: Learn to play guitar starting from the basics up to advanced playing styles. No prior experience needed for Guitar 1

Piano 1-4: Learn to play piano starting from the basics up to advanced piano literature. No prior experience needed for Piano 1

PHYSICAL EDUCATION

Team Sports: This course focuses on a variety of team sports and allows students to improve their skills and knowledge of the game.

Team Sports Volleyball: This course focuses on skill development, volleyball conditioning, team play, and rules of the game.

Strength Training: Improve your muscle strength and fitness levels while learning life skills.

Unified PE: This course focuses on cooperative sports and skill development for all students.

Athletic Coaching: This course focuses on the skills required to teach and coach. Students are given the opportunity to peer teach and create a teaching portfolio.

Sports Medicine: This course focuses on athletic injuries and the care and prevention of those injuries.

SCIENCE

Completion of Physics, Biology, & Chemistry Required Before Science Electives

Anatomy & Physiology: A deep look into the form and function of body systems and the underlying chemistry and physics that govern them.

AP Biology: Students will build off of concepts covered in Biology and explore them on a much deeper level. This class can potentially be used for college credit depending on their score on the AP Exam in May. As such, this is a very rigorous course designed to mimic a Freshman college Biology class. Students should have a strong background in Biology and Chemistry.

AP Chemistry: Students will build off of concepts covered in Chemistry Honors and explore them on a much deeper level. This class can potentially be used for college credit depending on their score on the AP Exam in May. As such, this is a very rigorous course designed to mimic a Freshman college Chemistry class.

AP Environmental Science: Provides students with the conceptual framework, knowledge, and analytical skills necessary to deal critically with the sciences of the environment. This class can potentially be used for college credit depending on their score on the AP Exam in May. As such, this is a very rigorous course designed to mimic a Freshman college Environmental Science class.

Climate, Ocean, Weather & Space Science: An upper level, project-based elective in earth and space science. The course is designed to answer four guiding questions in earth and space science: 1) How do we know the age of the universe? 2) How do we know the earth is changing? 3) How do we know the age of the earth? 4) How do we determine the past, present and future climates of the earth? Students will answer these questions through a variety of projects, presentations and laboratory experiences.

Forensic Science: An upper level lab based course. You will work with your lab partner or collaboratively with others using the lab skills you have developed in the 3 prior science classes to solve staged crime scenes. This is a course which integrates biology, chemistry, earth science, physics, mathematics and professional/technical writing.

SOCIAL STUDIES

Law & Society: Students will explore and examine controversial issues that affect our society. This course is an investigative course.

Black and African American Studies: Charts the accomplishments and struggles of people of African descent in America; emphasizes how African Americans have worked to determine the trajectory of their own lives while navigating extensive challenges to freedom, advancement, and prosperity.

AP Government/Politics: Meets the 10th grade Government requirement. Introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the US.

Psychology: Providing a broad overview of the field of Psychology. The goal of this course is to think consciously, deliberately and skillfully about human behavior.

FCC PSYC 101 General Psychology: Emphasizes the major factors that influence human behavior, including behavioral neuroscience, perceptual processes, consciousness, intelligence, personality and psychological disorders.

Sociology: The scientific study of society, including patterns of social relationships, social interaction, and culture. Sociology can help us to understand ourselves better, since it examines how the social world influences the way we think, feel, and act.

World War 2: Students will study the causes, activities and effects of the largest war in history, including the rise of Fascism, the Holocaust, and weapons of war that led us into the modern age.

AP U.S. History: Meets the 9th grade American Studies 2 requirement. Taken in two semesters. Students will investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present.

AP World History: Meets the 11th grade Modern World History requirement. Students investigate significant events, individuals, developments, and processes in six historical periods from approximately 1200 CE to the present.

WORK BASED LEARNING

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Career & College Prep (formerly "Independent Living") (\$): Explores the skills needed to make informed decisions as students progress through high school related to further education and/or employment in a career field of their interest upon graduating from high school.

Advanced Career Research & Development (CRD) (\$): Provides supportive experiences for young employees. Content includes job-seeking skills, job-holding skills, and topics designed to prepare the student to be a wise consumer. Students use financial management information to plan future purchases, prepare and adjust budgets, assess living costs, plan for savings, retirement, and stock market investments.

Work Study: Requires prerequisite of Career & College Prep and concurrent enrollment in Advanced CRD. Students attend classes for part of the day and then are granted release time to earn credit for going to work. Students keep records of their work schedules and submit timecards online every two weeks for a grade.

Mentor/Intern Program: An internship provides you opportunities to explore careers that you may consider studying in a post-secondary setting. Students are placed with adult mentors to explore the responsibilities, benefits, advantages, and disadvantages of a career choice.

WORLD LANGUAGES

Latin 1, 2, 3, 4: Latin is the study of language, culture and history. We do not speak it but instead focus on translation and word study, aiding students in their English classes and SATs. There is also a primary focus on Roman history and culture as well as the study of Greek Mythology.

FCC LATIN 101 Latin 1 / LATIN 102 Latin 2: College credit! The curriculum is the same as traditional Latin 1&2. Latin is the study of language, culture and history. We do not speak it in class. Instead we focus on word study, aiding students in their English classes and SATs as well as focusing on Roman History and Greek Mythology.

Spanish 1, 2, 3, 4, AP: Four basic skill areas are emphasized in language study: listening, speaking, reading, and writing. In addition, the understanding and appreciation of the culture associated with the language are integrated at all levels. Four levels of study are recommended in order to use a language proficiently, and up to Advanced Placement for fluency.

Mythology! This is a new course, taught in all English. The purpose of the course is not to learn another language but to dive into the study of Greek Mythology through storytelling. Topics to be covered include: The Major Gods/Goddesses, Trojan War, Aeneid, Odyssey, The Underworld and so much more!