

# BST High School Pathways for 2024-25

**College & Career Pathways** – Students will pick an ARCHway of either Entrepreneur, Innovator, or Scholar. Once a student selects an ARCHway, they then need to pick a College & Career EiSTEAM Pathway. The following are the EiSTEAM Pathways that Burns Sci-Tech offers.

## Ei – Leadership Pathway

<b>Entrepreneurship &amp; Business</b>	Entrepreneurs are required to take this pathway, but it is an optional college and career pathway for Innovators. Business Skills: Students simulate being an employee, manager, and/or company owner to solve real-world problems & understand business principles. Financial Literacy Skills: This includes preparing a budget, knowing how much to save, deciding favorable loan terms, and understanding the impacts to credit.
<b>Student Government</b>	Student government is a group of students that are charged with managing a wide range of events, activities, programs, policies, and initiatives around the school. Required to go through the election process.

## Science Pathway

<b>Exercise Science (Weightlifting)</b>	Find solutions to improve the health and wellness of people. This program leads to personal training certification & how to design workout programs.
<b>Educational Science (Teacher Intern)</b>	Work effectively with all students, educational technology, classroom management, student assessment, communication skills, and skills needed to support students' learning. Learn how to become a teacher.
<b>Agriscience &amp; Animal Science (FFA)</b>	Students use scientific principles and emerging technologies to solve complex problems related to agriculture, food, and natural resources. Includes: Agriscience Foundations, Animal Science & Services Agriculture Associate Cert, Fundamentals of Animal Science Certification
<b>Experimental Science Honors</b>	Learn how to be a research scientist through scientific inquiry, measurement, problem-solving, & experimental procedures. Participate in Science competitions.

## Technology Pathway

<b>Technology Services</b>	Provide specialized technology-oriented solutions by combining software, hardware, networks, telecommunications, and electronics processes & functions.
<b>Game &amp; Sim Design</b>	Video Game Creation, with an introduction to coding, programming, and 3D character modeling. Esports team development is also a part of this program.

## Engineering Pathway

<b>Engineering</b>	Using scientific principles to design and build machines, structures, and other items. This course will lead to either Marine or Aerospace Engineering.
<b>Technological Tools and Systems</b>	Learn a variety of vocational skills to prepare for an internship, vocational school, or a career. A focus on <b>hands-on expertise</b> (hand tools & power tools) that a student can immediately apply to their chosen career.
<b>Transportation Technology</b>	Learn about designing and building rockets, airplanes, cars, motorcycles, and boats. Innovations in transportation technology are essential.

## Artistic Design Pathway

<b>Art Portfolio Development</b>	A RIGOROUS self-directed environment to develop an online portfolio showing a collection of your work and artist statements. Learn about careers in art. Leads to an Advanced Placement course in your Senior year. There is an application & Supply fee or scholarships available. Pre-requisite: Pass 2D/3D Studio Art
<b>Musical Theatre</b>	Students learn to use acting and singing tools to create, articulate, and execute public performances.
<b>Music</b>	Learn how to play an instrument or create music through technology.
<b>Multimedia Journalism</b>	Develop skills in journalism on multiple platforms to build a traditional, digital, and video yearbook.

## Mathematics and Marketing Pathway

<b>Aviation Pilot Program</b>	This is a course of study used when learning to pilot an aircraft. The overall purpose of primary and intermediate flight training is the acquisition and honing of basic airmanship skills.
<b>Social Media and Business Marketing (Parent Permission is required)</b>	<i>Become an Influencer in your world.</i> Develop marketing skills using current social media platforms. Learn how to brand yourself, your school, and your business. Follow trends within social media and use them to your advantage. <b>Online safety skills will be emphasized.</b> This course is designed to provide students with an in-depth study of marketing in a free enterprise society and includes advertising, promotion, product development and branding, selling, and marketing research. This course also includes electronic media in marketing, and e-Commerce marketing.

# BST High School Electives for 2024-25

Course	Description	Type/ Length
Creating 2-D Art	Students investigate a wide range of media and techniques, from both a historical & contemporary perspective, as they engage in the art-making processes of creating two-dimensional works, which may include drawing, painting, printmaking, and/or collage. Students reflect on their own artwork & that of others through critical analysis to achieve artistic goals related to craftsmanship, technique, and application of 21st-century skills.	Art Semester
Creating 3-D Art	Students in Creating Three-Dimensional Art investigate a wide range of media and techniques from both a historical and contemporary perspective as they engage in the art-making processes of creating 3-D artworks, which may include sculpture, assemblage, and/or ceramics. Student artists reflect on their own artwork and that of others through critical analysis to achieve artistic goals related to craftsmanship, technique, and application of 21st-century skills.	Art Semester
2-D Studio Art 1	Students will receive weekly exposure to art history and will be exploring drawing and painting mediums to gain an understanding of a variety of 2-dimensional art techniques (drawing, painting, printmaking, collage, mixed-media). Students will follow procedures safely! Be able to use and understand vocabulary relative to 2-dimensional art processes. Learn techniques to make 2-Dimensional artwork with demonstrations and hands-on projects. <b>Prerequisite: Creating 2-D Art</b>	Art Semester
3-D Studio Art 1	Learn glass sculptural assemblage, wire, clay/ceramics, cold and warm glass work such as engraving/fusing/slumping (bending) techniques to make small 3 3-dimensional sculptural and functional objects. Students explore the science of kiln work and temperatures of ceramic and glass with demonstrations and hands-on projects. <b>Prerequisite: Creating 2-D Art or Creating 3-D Art</b>	Art Semester
Musical Theatre	Students learn to use acting and singing tools to create, articulate, and execute public performances.	Elective Year
Music	Learn how to play an instrument or create music through technology.	Music Year
Dual Enrollment Study Hall	College courses from Daytona State College. Students can take online college courses at school or at home. Must be enrolled in a Dual Enrollment course in order to be eligible.	College Credit
OJT	On-Job-Training – get high school elective credit while working at a job. Juniors and Seniors only.	Elective Semester
Team Sports	Students must take one semester of Personal Fitness and one semester of another physical education course to graduate.	PE Credits
Aerial Arts/ Acro Yoga	Principals of dance, acrobatics, and yoga combine to work toward a choreographed performance at the end of each semester with the musical theater department. Application and teacher approval are required. Will include intensive strength and conditioning. Equipment fee.	PE Credit
Spanish 1	Spanish 1 introduces students to the target language and various cultures. Students should expect to become familiar with common vocabulary terms and phrases.	Elective Year
Spanish 2	Spanish 2 builds upon the students' knowledge while comprehending a wide range of grammar patterns, participating in conversations with thoughtful responses, and perspectives of the various Spanish-speaking countries. Mid-year class is conducted completely in Spanish. <b>Prerequisites: Spanish 1</b>	Elective Year
Spanish 3	Spanish 3 builds upon the students' knowledge. Students are expected to understand advanced grammar patterns, participate in conversations both simple and more complex, and understand the products and perspectives of the various Spanish-speaking countries. The class is conducted completely in Spanish. <b>Prerequisites: Spanish 1 and 2</b>	Elective Year
Spanish 4	Spanish 4 expands the skills acquired by the students in Spanish 3. Specific content includes, but is not limited to, more advanced language structures and idiomatic expressions, with emphasis on conversational skills. There is additional growth in vocabulary for practical purposes, including writing. Reading selections are varied and taken from the target language newspapers, magazines, and literary works. <b>Prerequisites: Spanish 1, 2, &amp; 3</b>	Elective Year
Culinary	Food preparation, food sanitation procedures, nutrition and healthy cooking, culinary cuisine, recipe modification, and preparation for Serv-Safe certification.	Elective Semester
Transportation Technology	Learn about designing and building rockets, airplanes, cars, motorcycles, and boats. Innovations in transportation technology are essential.	Elective Year

Course	Description	Type/ Length
Leadership / SGA	The purpose of this course is to teach leadership skills, parliamentary procedure, problem-solving, decision-making, communication skills, group dynamics, time and stress management, public speaking, human relations, public relations, team building, and other group processes.	Elective Year
Weight Training	Find solutions to improve the health and wellness of people. This program leads to personal training certification & how to design workout programs.	Elective Semester
Teacher Aide	Work effectively with all students, educational technology, classroom management, student assessment, communication skills, & skills needed to support learning.	Elective Semester
Agriscience	Students use scientific principles and emerging technologies to solve complex problems related to agriculture, food, and natural resources. Includes: Agriscience Foundations, Animal Science & Services Agriculture Associate Cert, Fundamentals of Animal Science Certification	Elective Year
Animal Science	This course will explore the sciences involved in animal production. Instruction will lead students through animal anatomy and physiology, reproduction, nutrition, health issues, marketing, and animal products. <b>Prerequisite: Agriscience</b>	Elective Year
Agritechnology	Develop competencies in the areas of agriscience industry careers; prevention and treatment of livestock diseases; livestock anatomy; wholesale cuts of meat; animal reproduction and identification; animal safety; animal-health certification; plant growth; plant fertilization; safe use of pesticides; maintenance of tools and equipment; record keeping; and employability skills. <b>Prerequisite: Agriscience</b>	Elective Year
Experimental Science	Learn how to be a research scientist through scientific inquiry, measurement, problem-solving, & experimental procedures. Participate in Science competitions.	Elective Year
Technology Services	Provide specialized technology-oriented solutions by combining software, hardware, networks, telecommunications, and electronics processes & functions. <b>Prerequisite: Digital Information Technology (DIT)</b>	Elective Year
Game & Sim Design	Video Game Creation, with an introduction to coding, programming, and 3D character modeling. Esports team development is also a part of this program. <b>Prerequisite: Digital Information Technology (DIT)</b>	Elective Year
Engineering	Using scientific principles to design and build machines, structures, and other items. This course will lead to either Marine or Aerospace Engineering.	Elective Year
Multimedia Journalism	Develop skills in journalism on multiple platforms to build a traditional, digital, and video yearbook.	Elective Year
Aviation Pilot Program	This is a course of study used when learning to pilot an aircraft. The overall purpose of primary and intermediate flight training is the acquisition and honing of basic airmanship skills.	Elective Year
Social Media & Business Marketing	<i>Become an Influencer in your world.</i> Develop marketing skills using current social media platforms. Learn how to brand yourself, your school, and your business. Follow trends within social media and use them to your advantage. This course is designed to provide students with an in-depth study of marketing in a free enterprise society and includes advertising, promotion, product development and branding, selling, and marketing research. This course also includes electronic media in marketing, purchasing, and e-Commerce marketing.	Elective Year
Writing for College Success	This course incorporates language study, the practice of writing craft strategies, and the analysis of writing selections to develop critical writing skills necessary for success in college courses, preparing students for successful completion of college English courses requiring extensive grade-level writing.	Elective Semester
Student Life Skills (SLS) (College Course)	Developing critical thinking skills, cultivating personal responsibility, learning organizational and study skills, and encouraging academic achievement.	Elective Semester