



# BHS

# New Courses

2019 -2020



# Orchestra

Open to all students who perform on traditional string instruments, and who have an interest in instrumental music. This performance-oriented course focuses on standard Orchestra literature and techniques designed to have the student advance and succeed. Focus will include aspects of Orchestral, Chamber, and Small ensemble music. Students will be required to attend all performances as directed by course schedule. This will include fall and spring concerts, parades, and other performances that may occur during the school year. Opportunities to advance to nationally recognized events will be available. This may include Regional, State and/or All State ensembles. All students in Orchestra will be eligible to receive honors credit by meeting criteria developed by the music department.

This course is repeatable every year for credit.

# Percussion Workshop

Open to all students regardless of musical skill or experience. This course focuses on basic beginning percussion techniques and playing. Emphasis will be on rudiments, snare drum, mallet percussion, accessory percussion, basic traditional music reading, and drum set techniques. This course may include public performances, depending on membership.

Repeating this course for credit is also possible, as more advanced material can be covered.

# STEM Tools A: 3D Modeling and Printing

You will learn essential skills in 3D CAD modeling and printing as well as laser engraving and cutting. These skills can be used in multiple STEM courses to support project based learning as well as traditional classroom work. The class will culminate with you using your knowledge and skill to complete a team problem solving project which requires your team to use 3D printed and/or laser cut functional parts, as well as write a technology report in which you gather and evaluate data from the class work.

**NOTE:** *Does not need to be taken in sequence with STEM Technology B.*

# STEM Tools B:

## Materials Processing, Tools, and Techniques

Using tools and machines to make items we need and want is the oldest of human endeavors. You will gain an understanding of how products are made as you complete a series of hands-on activities which familiarize you with various tools, materials, machines and processes used in the manufacture of products. This is followed by a discussion of problem solving strategies and will culminate with you utilizing your acquired knowledge of materials and processing techniques in a team Design/Build challenge.

**NOTE:** *Does not need to be taken in sequence with STEM Technology A.*

# Human Geography

Human Geography is the study of how human behavior relates to the physical world. This interactive course will use a range of print, video, and map resources to support student learning in the areas of Cultural Geography (how religion, language and government vary across the world), Development Geography (standards of living and quality of life across the world), Population Geography (how populations grow in different places and people migrate), and Urban Geography (the location, space, and processes that contribute to cities and built-up areas).

# International Business

International Business has grown significantly over the past 30 decades with the changes in technology, globalization of marketplaces, competition, freer trade and change in domestic markets. Students who pursue an International Business degree can work in the areas of Human Resources, Management, Finance and Banking, Communications, Law, Public Policies, Logistics. (Many of the careers in domestic US have counterparts globally). This course will provide students significant exposure to emerging economies and cross cultural opportunities while also giving them in-depth knowledge of globalization, management, business, finance, technology and languages so they can master a global approach to learning.

# American Sign Language

This is a beginning course designed for those with no previous study in ASL. Students will develop beginning level ASL receptive and expressive communication skills with vocabulary and grammar within the authentic context of the American Deaf culture and history. There will be an emphasis on making comparisons and connections to one's own culture and Deaf cultures studied. Course instruction and activities are primarily in ASL. At the end of this level, students are expected to perform at the Novice Mid or above level of ACTFL proficiency guidelines.

**\*Grades 10-12**



# AP Seminar

Students in this course will learn research methods and master writing and presentation skills. The students themselves, with input from the instructor, will select topics of personal interest to explore (topics may be cross-curricular). Students will conduct research and consider an issue from multiple perspectives; evaluate the strength of an argument; and make logical, fact-based decisions. Students will develop skills associated with writing effective thesis papers, collaborating with peers, identifying and contextualizing an issue, seeking out answers that reflect multiple perspectives, and delivering effective multimodal presentations.



Want more information?  
Go to LLC website's [AP Capstone page](#)

# Scientific Research

In an effort to better educate students in the process of formal scientific research and provide them with the communication, writing, and critical thinking skills to engage in professional scientific practice, students will be tasked with devising independent research projects under the supervision of a teacher mentor. Students will learn the methodology for conducting a literature review, creating and presenting proposals, assembling and engaging in laboratory activities, communicating results, and networking with experts in the academic field. Students interested and committed to earning Honors credit for this course must meet additional requirements set forth by the STEM Department Head and instructor.

# Algebra IIA

Algebra IIA is the first course in a two year sequence that provides a comprehensive curriculum that will help students strengthen their conceptual understanding and enable them to be better prepared for introductory college mathematics courses. Topics include properties of functions, linear functions and equations, quadratic functions and equations, and exponential functions and equations. Assessment will be based on tests, quizzes, projects, homework, and classwork. Open-ended inquiry problems requiring higher-order thinking will be utilized to assist in evaluating student progress and in preparation for Connecticut Core based assessments.

Prerequisite: *Geometry*

# Algebra IIB

Algebra IIB is the second course in a two year sequence that provides a comprehensive curriculum that will help students strengthen their conceptual understanding and enable them to be better prepared for introductory college mathematics courses. Topics include properties of functions, linear functions and equations, quadratic functions and equations, and exponential functions and equations. Assessment will be based on tests, quizzes, projects, homework, and classwork. Open-ended inquiry problems requiring higher-order thinking will be utilized to assist in evaluating student progress and in preparation for Connecticut Core based assessments.

Prerequisite: *Integrated Algebra IIA*