



# BUSAN FOREIGN SCHOOL

*Embracing Diversity, Striving for Excellence*

## Course Descriptions 2017-18

### Middle School and High School

BUSAN FOREIGN SCHOOL





## General Information

### Graduation Requirements

One diploma will be granted to each student who has:

- Attended BFS for at least the entire final semester of their 12<sup>th</sup> grade
- Satisfactorily completed 26 credits during their 9<sup>th</sup> to 12<sup>th</sup> grade
- Paid in-full fees and tuition owed to BFS

Minimum Graduation Requirements (9 <sup>th</sup> -12 <sup>th</sup> Grade)		
Subject	Credits	Remarks
Language Arts	4	Senior English mandatory
Math	3	Must include Geometry and Algebra 2
Social Studies	3	US History recommended for US citizens
Science	3	Must include two years of a lab science
Electives	9	9 required for 2017 graduates and later
Foreign Language	2	Two years of the same language
Visual, Performing, or Digital Arts	1	Art, Music, Multimedia, Computer Science classes or other classes approved by the administration
P.E./Health	1	Must include one semester of both Art and PE
<b>Total</b>	<b>26</b>	<b>26 required</b>
Community Service	Non-credit	A total of 75 community-service hours are required to graduate, of which 25 hours must be performed in a student's Senior Year.



# BUSAN FOREIGN SCHOOL

*Embracing Diversity, Striving for Excellence*

BFS GRADING SYSTEM High School		Weighting Scale	AP/(H) Weighting Scale
Letter Grade	% Grade	4.0 point scale	5.0 point scale
A+	97-100	4.0	5.0
A	93-96	3.9	4.8
A-	90-92	3.7	4.5
B+	87-89	3.3	4.0
B	83-86	3.0	3.7
B -	80-82	2.7	3.3
C+	77-79	2.3	3.0
C	73-76	2.0	2.7
C-	70-72	1.7	2.3
D+	67-69	1.3	1.9
D	63-66	1.1	1.6
D-	60-62	0.7	1
F	0-59	0.0	0

## Advanced Placement (AP) Program

- AP courses allow students to earn possible college credits while still in high school in addition to the one high school credit. Many universities and colleges in the US and internationally honor AP credits.
- For 2017-18, BFS is offering the AP Capstone™ Diploma program. Students must take the AP Seminar class to begin the program.
- It is mandatory that students receive approval from the AP Coordinator, Mr. Saunders, before enrolling in more than two AP courses.
- AP tests are administered in the spring of each school year per the College Board, and all students enrolled in AP classes are strongly encouraged to take the course exam.
- *Students / families are responsible for all fees that may occur with AP exams.*



## High School Suggested Course of Study

GRADE LEVEL			
Grade 9	Grade 10	Grade 11	Grade 12
Biology	Chemistry	Physics or Environmental Sc. or AP Science	Physics or Environmental Sc. or AP Science
Geometry	Algebra 2	Pre-Calculus or HS Calculus or AP Statistics	AP Calculus or AP Statistics
Asian History	US History or AP World History or AP Psychology	Social Studies (elec) or AP World History or AP Economics or AP Psychology	Government & Economics or AP World History or AP Economics or AP Psychology
Intro to Literature	American Literature	Critical Reading & Writing or AP English	Senior English (mandatory)
Foreign Language	Foreign Language	Foreign Language or Elective 1	Foreign Language or Elective 1
PE-Health	Visual, Performing or Digital Arts	Elective 2	Elective 2
Elective 1	Elective 1	Elective 3	Elective 3



## CORE COURSES

---

### English/Language Arts

#### ***Grade 6 Reading Workshop***

***Ms. Jones***

This course will provide students with a solid foundation in reading narrative, informational, and persuasive texts. Students will acquire skills to help them tackle tough texts, learn critical reading strategies and analyze techniques used by authors of both fiction and nonfiction. The workshop model empowers young readers through a variety of techniques including whole group instruction, read aloud, literature circles, individual conferences, and book clubs. Students will also have daily opportunities to focus on grammar and vocabulary, deepening their knowledge through the study of roots, prefixes and suffixes.

#### ***Grade 6 Writing Workshop***

***Ms. Jones***

Students will write original narrative, informational, and persuasive texts by practicing and following the steps of the writing process. The workshop model provides students with a structured environment where students can write extensively and grow as authors. Students will be given frequent opportunities to share their writing through conferences, peer editing, group reads, and publishing of texts. Writing Workshop is closely aligned with the Reading Workshop scope and sequence; therefore, students can apply the strategies they have learned as readers to their own writing.

#### ***Grade 7 Reading Workshop***

***Mr. Evans***

In 7th grade reading workshop, students will increase their agency and independence while reading through a variety of genres. Students will create and present book trailers, book talks, and will engage in book clubs. Students will also learn a variety of vocabulary prefixes and bases to help to "divide and conquer" words to improve their reading comprehension.

#### ***Grade 7 Writing Workshop***

***Mr. Evans***

In 7th grade writing workshop, students experiment with both narrative and expository writing, increasing their understanding of focus, specific details, and voice. Students work on identifying and correcting grammar errors through weekly practice.

#### ***Grade 8 Reading Workshop***

***Mr. Evans***

Reading workshop continues in 8th grade as students read and master more challenging texts. Students practice developing inferential thinking, while supporting their ideas and claims with relevant textual evidence. Students tackle multi-genre projects and practice digging deeper into the texts they read.



## ***Grade 8 Writing Workshop***

***Mr. Evans***

In 8th grade writing workshop students can expect to take their writing to a more polished level, both in terms of grammar and style. Students get an opportunity to experiment with expressing their perspectives effectively. Literature circles and reading responses continue here, as well as higher level Latin and Greek vocabulary.

## ***Grade 9 Introduction to Literature (Language Arts Credit)***

***Ms. Leland***

This class focuses on expanding students' understanding works of literature through a genre approach. The goal is to provide students with a strong foundation in literature as they progress through high school. Literature will include short stories, poetry, a young adult novel, mythology, selections from *The Odyssey*, *Romeo and Juliet* and non-fiction, among others. In addition, vocabulary, through the study of Greek and Latin roots, and grammar will be addressed. Writing skills will focus on the essay and using evidence effectively to support a thesis.

## ***Grade 10 American Literature (Language Arts Credit)***

***Ms. Boyle***

This year-long course covers the central themes and movements of American Literature. Readings will involve a wide variety of forms chronologically from the Puritan through contemporary periods. Class activities will include Socratic seminars, informal small and large-group discussions, close reading strategies, web quests, presentations, research, essays, and written responses. Occasional ties to American history class may occur. Grammar and unit-specific vocabulary will also be addressed throughout the course.

## ***Grade 11 Critical Reading, Writing, and Speaking (Language Arts Credit/Elective)***

***Ms. Leland***

This class will focus on cultivating students' appreciation for the craft of writing and encourage students to develop their own writer's voice in both academic and creative genres. While this class will focus primarily on reading nonfiction works like memoirs and professional essays, we will also read and rhetorically analyze the award-winning book *The Kite Runner*. In order to develop a command of the English language in their own writing, students will engage in intensive grammar exercises as well as write several essays including: compare/contrast, rhetorical analysis, argument, personal essay, and an intensive research paper with all steps of the writing process, including an annotated bibliography. In addition to reading and writing, students will participate in Socratic Seminars and small group discussions as well as make regular contributions to class discussions.

## ***Grade 12 Senior English: College Preparation Literature and Composition (Language Arts Credit) MANDATORY FOR ALL SENIORS***

***Ms. Boyle/Ms. Leland***

This course, specifically designed for BFS seniors, will have several purposes: successful completion of the college application process, preparation for writing at the collegiate level, and an in-depth look at upper-level literature. Literature may vary from year to year. For 2017-2018, readings will focus on British and World Literature. Students will reflect and analyze timeless and universal themes and consider their place as a world citizen confronting the world beyond high school and in many cases beyond South Korea. In addition, students will formally research topics using library databases, for a variety of rhetorical purposes (expository, argumentative, and a synthesis essay analyzing a trend) and produce an appropriate paper through the entire writing process, document sources. Speaking activities may include Socratic discussions, formal speeches or informal group work.



# BUSAN FOREIGN SCHOOL

*Embracing Diversity, Striving for Excellence*

## ***Grades 11, 12 Contemporary Literature Through Film (Elective)***

***Ms. Boyle***

This course will explore the relationship between contemporary pieces of literature and the films of the same genre. The genres, films, and novels that students explore are determined by the class. Throughout a unit, students will read, analyze, and discuss their independent reading novels, write an essay, and watch films from that novel's genre. Students will then discuss and analyze the films we view as a class.

## ***Grades 10, 11,12 AP Literature (Language Arts Credit; Elective Credit)***

***Ms. Boyle***

AP Literature and Composition covers literature and composition in depth. The focus will be on poetry and the novel, but other types of literature will be addressed. The course is modeled after a college seminar; therefore, all reading is done outside of class, and class time is spent in discussion and writing. A summer assignment is required. Students will have the opportunity to take the Advanced Placement Exam in the spring and college credit may be granted upon successful completion of this exam.

## ***Grades 10, 11,12 AP Seminar (Language Arts Credit; Elective Credit) *New Course!****

***Ms. Leland***

AP Seminar is the foundational course in the AP Capstone diploma that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literacy, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

## **Math**

### ***Grade 6 Mathematics Course 1***

***Mr. Gates***

In this enriched class, students will investigate and explore fraction operation, two- and three-dimensional measurement, rational numbers, similarity, proportional reasoning, integers, exponents, variables, equations, linear relationships, and probability. Emphasis will be placed on fully communicating mathematical work, understanding mathematical notation, and multiple representations, i.e., exploring mathematical concepts simultaneously through graphs, tables, equations and written explanations.

### ***Grade 7 Pre-Algebra***



### ***Ms. Branch***

In this enriched class, students will investigate and explore rational and real numbers, integer and exponential operations, data analysis and probability, plane geometry, proportional reasoning, equations and inequalities, slope, sequences and functions, polynomials and logic and discrete math. Emphasis will be placed on fully communicating mathematical work, understanding mathematical notation, and multiple representations, i.e., exploring mathematical concepts simultaneously through graphs, tables, equations and written explanations.

### ***Grade 7, 8, 9 Algebra I***

#### ***Mr. Gates***

In this enriched class, students will investigate and explore equations, inequalities, functions and linear functions, systems of equations and inequalities, exponents and polynomials, factoring polynomials, quadratic functions and equations, data analysis and probability. For advanced students, some of Algebra II topics will be introduced (exponential, radical and rational functions and equations). Emphasis will be placed on fully communicating mathematical work, understanding mathematical notation, and multiple representations, i.e., exploring mathematical concepts simultaneously through graphs, tables, equations and written explanations.

### ***Grade 9 Geometry (Math Credit)***

#### ***Mr. Virgen***

This course involves the student as a problem solver, one who can reason mathematically and who can communicate and make connections among various mathematical ideas, including the following: points, lines, planes and angles, parallel lines and planes, transformations and congruence, congruent triangles, similar polygons, right triangles, circles, areas of plane and solid figures, volume and surface area of solids, organizing proofs logically and using formulae to solve problems.

### ***Grade 10 Algebra 2 (Math Credit)***

#### ***Mr. Virgen***

In this course, students will be investigating Algebra as a tool for calculation and problem solving. We'll start with some review of Algebra I and Geometry and focus on quadratic functions and factoring, polynomial functions, rational exponents and functions, rational functions, data analysis and statistics, sequence and series, quadratic relations and conic sections. Students will start learning how to use graphic calculator with activities and work on research projects for in-depth understanding.

### ***Grades 9-12 Algebra 2 with Trigonometry (Math Credit) **New Course!*****

#### ***Mr. Gates***

The content of Algebra 2 with trigonometry is organized around families of functions, including linear, quadratic, exponential, logarithmic, and rational functions. As students study each family of functions, they will learn to represent them in multiple ways – as verbal descriptions, equations, tables, and graphs. They will also learn to model real-world situations using functions in order to solve problems arising from those situations.

In addition to its algebra content, Algebra 2 with Trigonometry includes lessons on probability and data analysis as well as numerous examples and exercises involving geometry and trigonometry. These math topics often appear on standardized tests, so maintaining students' familiarity with them is important. To help students prepare for standardized tests, Algebra 2 with Trigonometry provides



instruction and practice on standardized test questions in a variety of formats – multiple choice, short response, extended response, and so on.

### ***Grade 11 Pre-Calculus (Math Credit)***

***Mr. Virgen***

In this course, the students will review and learn more depth in Trigonometric, Geometric, and Algebraic techniques and how to integrate them to prepare for the study of calculus and strengthens their conceptual understanding of problems and mathematical reasoning in solving problems. In addition to work out problems by hand, the students will learn how to use technology such as TI 83/84/89. These standards take a functional point of view toward those topics. The most significant new concept is that of limits.

### ***Grades 11-12 AP Calculus AB/BC (Math Credit)***

***Mr. Virgen***

In this college level math course, students will learn real world problem solving using math and explore all aspects of single-variable calculus. Students will study limits, differentiation, applications of differentiation, integration, applications of integration and basic differential equations. The students will learn both algebraic approach and geometric approach to understand calculus with help of technology (TI 83/84/89) and graphical analysis. At the conclusion of the course, students are strongly encouraged to take the AP Calculus exam (AB).

### ***Grades 10-12 AP Statistics (Math Credit)***

***Mr. Gates***

The purpose of this AP course in statistics is to strengthen students' understanding of the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

- 1 . Exploring Data: Describing patterns and departures from patterns
- 2 . Sampling and Experimentation: Planning and conducting a study
- 3 . Anticipating Patterns: Exploring random phenomena using probability and simulation
- 4 . Statistical Inference: Estimating population parameters and testing hypotheses

The AP Statistics course is an excellent option for any secondary school student who has successfully completed a second-year course in algebra and who possesses sufficient mathematical maturity and quantitative reasoning ability. Because second-year algebra is the prerequisite course, AP Statistics usually will be taken in either the junior or senior year.

The decisions about whether to take AP Statistics and when to take it depend on a student's plans:

- Students planning to take a science course in their senior year will benefit greatly from taking AP Statistics in their junior year.
- For students who would otherwise take no mathematics in their senior year, AP Statistics allows them to continue to develop their quantitative skills.
- Students who wish to leave open the option of taking calculus in college should include Pre-Calculus in their high school program and perhaps take AP Statistics concurrently with Pre-Calculus. Students with the appropriate mathematical background are encouraged to take both AP Statistics and AP Calculus in high school. Students who take the AP Statistics course are strongly encouraged to take the exam.



## Social Studies

### ***Grade 6 Ancient History***

***Ms. Jones***

The Ancient World History course covers the birth of humanity and growth of civilizations from Mesopotamia and Egypt to Greece and Rome. The course will include a discussion of characteristics of civilizations including the development of agriculture, governments, division of labor, social hierarchies, and culture. Students will focus on causes, effects, and turning points in the rise and fall of various civilizations. They will investigate major religions including Judaism, Hinduism, Buddhism, Christianity, and Islam and their impact on governments, society, and culture. The course should be rigorous and relevant with instruction that integrates thinking skills, historical processes, and content so that students are able to apply their learning to their own lives. Instruction should include the integration of concepts and principles from history, economics, geography, civics, and the humanities.

### ***Grade 7 Geography A***

***Ms. Jones***

Geography is the study of the world, its people, and the landscapes they create. During this year, we will be learning about the people of the world and their interactions with their environment. We will be examining the physical geography, history and culture of countries and regions throughout the world. At BFS, World Geography is a two-year course taught in the seventh and eighth grades. In World Geography 7 we will learn the themes and essential elements of studying geography and cover The Americas, Europe, and Russia.

### ***Grade 8 Geography B***

***Mr. Neeno***

Geography is the study of the world, its people, and the landscapes they create. During this year, we will be learning about the people of the world and their interactions with their environment. We will be examining the physical geography, history and culture of countries and regions throughout the world. At BFS, World Geography is a two-year course taught in the seventh and eighth grades. In World Geography 8 we will learn about Asia, Africa, and the Pacific.

### ***Grade 9 Asian History (Social Studies Credit)***

***Mr. Neeno***

This course offers a detailed study of Asian history, geography, and cultures as it follows the social and political development of the Asian continent. Students will be able to describe the physical geography of Asian countries. They will become familiar with the major religions practiced and how these religions shaped the development of each country. They will discover how the past has influenced the development and present of Asian countries. Students will be assessed through tests, quizzes, homework, and group and individual projects.

### ***Grade 10 U.S. History (Social Studies Credit)***

***Ms. Wiehe***

This social studies course is aimed at developing an understanding of the history of the United States. The course content takes you through a somewhat comprehensive journey through U.S. History with an emphasis on the most impactful periods in U.S. history. Students will learn about the institutions, individuals, groups, ideas, circumstances, and events (both good and bad) which shaped the U.S. into what it is today. Throughout the learning process, students will work to gain an



understanding of key historical, political, geographical, and economic concepts which can be applied outside the context of U.S. history. In addition to content, students will work to develop their academic reading, writing, research, presentation, and communication skills to better prepare them for future coursework. Students must complete reading assignments, notes, and participate in discussion in order to be successful. Assessment will take place through frequent quizzes, tests, and projects.

***Grades 10, 11, 12 History Through Film: 20 Century Social Movements (Social Studies Credit/Elective) New Course!***

***Ms. Wiehe***

In this course students will examine significant social movements in US History and how they are told and explained by Hollywood by viewing major motion pictures including such films as *Selma*, *Rent*, and *Iron Jawed Angels*. Students will create a variety of video responses, essays, and projects to demonstrate their understanding of historiography, how accurate Hollywood movies are, and why people use movies to understand the past.

***Grades 10, 11,12 Global Issues/MUN (Social Studies Credit/Elective)***

***Mr. Neeno***

The world has become much smaller in recent years as new technology increases the speed and flow of information from one part of the world to the next. In this course, students conduct inquiry into contemporary and emerging global issues. Students work to gain an understanding of how history, culture, politics, and economics play important roles in shaping many of the global issues of our time. The course will also promote and enhance research, collaboration, and multimedia presentation skills which can transfer to future academic coursework. Students will participate in the Model United Nations (MUN) competition through the South Korea Activities Conference (SKAC) and will have the opportunity to participate in a regional MUN competition.

***Grades 10, 11, 12 Comparative Government (Social Studies Credit/Elective) New Course!***

***Ms. Wiehe***

This social studies course reviews how governments are created and how politics and government come together to create policies that either enhance or intrude on human freedoms and quality of life. Significant issues occurring in the world today will be at the base of the course. Students will engage in creating their own government systems, analyzing and comparing contemporary public policies and developing an awareness of how one issue can be dealt with in a variety of ways depending on the government system and nation to which it belongs.

***Grades 11,12 AP Macroeconomics (Social Studies Credit)***

***Ms. Wiehe***

Economics is a social science that studies how individuals, governments, firms and nations make choices while attempting to satisfy unlimited needs and wants with limited resources. You and I practice economic behavior every single day, without even knowing it.

The purpose of the AP course in Macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

The purpose of the AP course in Microeconomics is to give students a thorough understanding of the principles of economics that apply specifically to the functions of individual decision makers, both



consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, includes the study of factor markets, and of the role of government in promoting greater efficiency and equity in the economy. Whereas macroeconomics is the study of the behaviors and goals which drive the economy as a whole, microeconomics focuses on the individual units that make up the economy, such as the common behaviors of businesses and individuals.

## ***Grades 10,11,12 AP World History (Social Studies Credit)***

***Mr. Neeno***

Explore key themes of world history, including interaction with the environment, cultures, state-building, economic systems, and social structures, from approximately 8000 B.C.E. to the present. Learn to apply historical thinking skills including the ability to craft arguments from evidence; describe, analyze and evaluate events from a chronological perspective; compare and contextualize historical developments; and analyze evidence, reasoning and context to construct and understand historical interpretations.

## **Science**

### ***Grade 6 Earth Science***

***Mr. Cressey***

The primary focus for this course will be on earth sciences; Students will have the opportunity to explore the interesting world of science by participating in a variety of activities and differentiated assessment that cater to the different learning styles of individual students, while still encouraging the development and utilization of new skills and study techniques. There is also a strong emphasis on the scientific method which will be reinforced via laboratory work where students will learn and practice the procedure for conducting experiments. The units of study for this course are Mapping, plate tectonics, earthquakes, volcanoes, erosion, weather factors, and astronomy.

### ***Grade 7 Life Science***

***Mr. Cressey***

The primary focus for this course will be on life sciences; however we will cover some earth and physical sciences also. Students will have the opportunity to explore the interesting world of science by participating in a variety of activities and differentiated assessment that cater to the different learning styles of individual students, while still encouraging the development and utilization of new skills and study techniques. There is also a strong emphasis on the scientific method which will be reinforced via laboratory work where students will learn and practice the procedure for conducting experiments. The units of study for this course are geologic time, evolution, cell processes, genetics, and structure and function in living things,

### ***Grade 8 Physical Science***

***Mr. Cressey***

The primary focus for this course will be on physical sciences, which is composed of chemistry and physics. Students will have the opportunity to explore the interesting world of science by participating in a variety of activities and differentiated assessment that cater to the different learning styles of individual students, while still encouraging the development and utilization of new skills and study techniques. There is also a strong emphasis on the scientific method which will be reinforced via laboratory work where students will learn and practice the procedure for conducting a controlled experiment. The units of study for this course are motion, forces, waves, electricity, magnetism,



structure of matter, elements, the periodic table, atoms and bonding, chemical reactions, acids and bases, and carbon chemistry.

### ***Grade 9 Biology (Science Credit)***

***Mr. Lee***

Biology is the study of life and living organisms, including their structure, function, growth, evolution, distribution, and taxonomy. The objectives of this course are to provide students with a general knowledge of biology and to prepare students for a general biology course in university. The course topics are: lab safety and lab materials, the science of biology, the chemistry of life, cell structure and function, photosynthesis, cellular respiration and fermentation, cell growth and division, introduction to genetics, DNA, RNA and protein synthesis, human heredity, Darwin's theory of evolution, evolution of populations, classification, history of life, introduction to animals, animal evolution and diversity, animal systems I, animal systems II, digestive and excretory systems, nervous system, skeletal, muscular, and integumentary systems, circulatory and respiratory systems, endocrine and reproductive systems, and immune system and disease.

### ***Grade 10 Chemistry (Science Credit)***

***Mr. Lee***

Chemistry is the study of the composition, structure, properties, and change of matter. The objectives of this course are to provide students with a general knowledge of chemistry and to prepare students for a general chemistry course in university. The course topics are: lab safety, lab materials, and math review, matter and change, measurements and calculations, atoms: the building blocks of matter, arrangement of electrons in atoms, the periodic law, chemical bonding, chemical formulas and chemical compounds, chemical equations and reactions, stoichiometry, states of matter, gases, solutions, ions in aqueous solutions and colligative properties, acids and bases, acid-base titration and pH, reaction energy, reaction kinetics, chemical equilibrium, nuclear chemistry, and organic chemistry.

### ***Grades 9, 10, 11, 12 Environmental Science (Science Credit)***

***Ms. Branch***

Using skills and tools that all scientists use, students in the environmental science course will study how living things, including humans, affect and interact with their environment. Based on current issues and a knowledge of all the earth sciences and social sciences, we will explore how people use natural resources and, at times, create serious issues that need attention. In this applied science course students investigate practical solutions to current environmental problems. Students will become aware of human interaction with environmental systems and search for ways in which they can steward their surroundings and the planet. Be ready to debate the issues, create authentic projects that improve and protect our surroundings, and discover ways we can enhance the planet we have inherited from our ancestors. A field science class, we will spend many class periods outdoors in all seasons.

### ***Grades 11,12 Physics (Science Credit)***

***Mr. Lee***

Physics is the study of the motion of matter, energy, and forces. The objectives of this course are to provide students with a general knowledge of physics and to prepare students for a general physics course in university. The course topics are: lab safety, lab materials, and math review, the science of physics, motion in one dimension, two-dimensional motion and vectors, forces and the laws of motion, work and energy, momentum and collisions, circular motion and gravitation, fluid mechanics, heat,



vibration and waves, sound, light and reflection, refraction, electric forces and fields, electrical energy and current, circuits and circuit elements, magnetism, electromagnetic induction, and additional content.

### ***Grades 11,12 AP Chemistry (Science Credit)***

***Mr. Lee***

AP Chemistry is the study of matter and the properties, changes, and interactions it undergoes. The objective of this course is to provide students with the knowledge of a general chemistry course in university. The course topics are: lab safety and lab materials, select topics from HS chemistry, reactions in aqueous solutions, gases, thermochemistry, intermolecular forces and liquids and solids, physical properties of solutions, chemical kinetics, chemical equilibrium, acids and bases, acid-based equilibria and solubility equilibria, entropy, free energy, and equilibrium, electrochemistry, and additional content.



## ELECTIVE COURSES

---

### General

#### ***Grades 6, 7, 8 Urban Agriculture***

***Ms. Branch***

Learn about plants, and the joys of growing them for beauty and food. Join your classmates in an exploration of local community farming and sustainability practices. Field trips will be a part of this course. Hands-on products and projects will help students to gain knowledge and understanding of topics including basic plant physiology, organic farming and permaculture, tree fruits and pruning, growing vegetables for harvest, organic farming practices, preparation of food stuffs and canning, harvesting of kelp and other seaweeds for food, seed harvest and storage for replanting, composting, mycology, garden planning and other topics.

#### ***Grades 6,7,8 Physical Education / Health***

***Mr. Galles***

Physical education for MS students consists of individual activities, group/team activities, and outdoor educational activities. Health-related physical fitness and wellness activities are promoted and supported throughout the curriculum. Health education using *Fitness for Life* will be embedded within the Physical Education course including nutrition, fitness testing and goal-setting, anatomy and physiology of the human body, disease prevention, safety, and communication and self-esteem unit.

#### ***Grades 9, 10,11, 12 Marine Science (Elective)***

***Ms. Branch***

Oceans cover more than 70% of the surface of our planet, yet scientists report that less than 3% has been explored. Considered a part of the field of Earth Science, Marine Science is the exploration and scientific study of the ocean including its chemistry, physical properties, ecosystems, and biology of life forms within the water. Students will participate in lab and field experiences to dive into a deep study of that which makes our planet Earth known as the “Blue Planet”. Tides and currents, physical and chemical properties of ocean water, and life in marine environments will form the basis for studies in this course. This applied science will also examine the human influences on the oceans and ocean systems.

#### ***Grades 9,10,11,12 Physical Education (PE) / Health (Full PE Credit)***

***Mr. Galles***

The best way to live a healthy life is to prevent health problems before they occur. This course creates opportunities for students to apply new skills and knowledge to experiencing the benefits of a physically active lifestyle. Students will be required to complete a mixture of physical activities, tests, and a research paper—and to record in their workout log cardiovascular, flexibility, strength and endurance activities. Health education using *Fitness for Life* will be embedded within the Physical Education course including nutrition, diet, and managing stress. By the end of the course, they will have gained the knowledge needed to begin developing healthy habits that will last a lifetime.



## Technology Skills

### ***Grades 6,7,8 Maker Space: Design and Engineering***

***Mr. Cressey***

This year long, project-driven course is devoted to solving problems and creativity. Students will analyze problems, create solutions, and test their designs. They will learn to use a variety of materials from paper-craft, traditional wood construction, Lego robotics, and 3D printing as well as others to solve tasks. These tasks will be a combination of practical problems to be solved for the benefit of BFS, problems posed by the teacher, and problems and designs that the students will come up with on their own. Activities will include identifying possible construction projects, determining materials needed, learning the safe and proper use of hand and power tools, working both independently and collaboratively, and the basic use of circuits and programming to accomplish tasks.

### ***Grades 9,10,11,12 Digital Media Creation (Elective/Digital Arts)***

***Mr. Morrison***

As technology and social trends change the way that people create and consume media, it is becoming more important for corporations, organizations, and individuals to stay updated on the most effective ways to create digital media that helps us spread our ideas. This course will combine short case studies, student creativity, proven structures, and technology to create digital media projects that can be used in short-term or long-term promotional campaigns. Students will learn practical skills that they can apply to help future extra-curricular clubs, non-profit organizations, etc. Through application within a team atmosphere, students will improve writing, photography, video editing, journalism, presentation and promotion skills. Members of this class will also create multiple Shark Tank broadcast video episodes throughout the school year.

### ***Grades 9,10,11,12 Yearbook (Elective/Digital Arts)***

***Mr. Morrison***

In this course, students will become journalists, editors, photographers, and graphic designers as they carefully create each page of the BFS yearbook. This class offers students the opportunity to dive into graphic designing programs, Photoshop, and other computer programs. Through interviews and data collection, students will use their creative writing skills to craft articles documenting all of the exciting events and activities of the BFS Sharks. Students will learn how to best capture each memory in a photo to add visual content to the yearbook. After researching designs and layouts, students will create each page using a yearbook software. Yearbook students will help preserve school memories in a fun and creative way.

## Computer Science

### ***Grades 6, 7, 8 MS Computer Science 1 (Elective/Digital Arts) *New Course!****

***Mr. Huffman***

As technology continues to grow and evolve, computers are being more and more integrated into society. As they continue to fill all sorts of roles, it becomes more and more important for us to know not only how they work, but how to use them. How do we talk to them and tell them to do what we want them to? Learn the basics of computer science, programming, and computational thinking with



Karel the Dog. Students give commands to the dog to practice foundational concepts and solve programming puzzles. Nearly every website you have ever visited employs Javascript in some form or another! This course will use CodeHS (codehs.com), a Javascript-based educational platform designed to teach coding easily and efficiently. This is a great first course for middle school students.

## **Grades 6, 7, 8 MS Computer Science 2 (Elective/Digital Arts) *New Course!***

**Mr. Huffman**

This is a project-based computer science course that teaches students how to build their own web pages and understand computing ideas. Using CodeHS (codehs.com), students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. With a unique focus on creativity, problem solving and project based learning, students will have the opportunity to explore several important topics of computing using their own ideas and creativity and develop an interest in computer science that will foster further interest in the field.

## **Grades 9, 10 Computer Science 1 – Javascript (Elective/Digital Arts) *New Course!***

**Mr. Dickinson**

This class focuses on foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Once students complete the CodeHS Introduction to Computer Science course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in JavaScript. The entirely web-based curriculum is made up of a series of learning modules that cover the fundamentals of programming. Each module is made up of short video tutorials, example programs, quizzes, programming exercises, challenge problems, and unit tests. The Computer Science 1 class in JavaScript is designed for complete beginners with no previous background in computer science. The course is highly visual, dynamic, and interactive making it engaging for new coders.

## **Grades 11,12 Computer Science 2 – Python (Elective/Digital Arts) *New Course!***

**Mr. Dickinson**

This class focuses on building skills in computer science and teaches the fundamentals of computer programming as well as some advanced features of the Python language. Using CodeHS, students use what they learn in this course to build simple console-based games, and this course is equivalent to a semester-long introductory Python course at the college level. This course does not assume any prior programming experience. Learn the basics of programming, and then gradually harness the power of some of Python's more advanced features to make games and solve real-world problems. Students can take this course as their first introduction to computer science or as a secondary introductory course that explores a new language, after Computer Science 1 in JavaScript.

## **Grades 11, 12 AP Computer Science Principles (Elective Credit) *New Course!***

**Mr. Dickinson**

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career through digital projects that showcase your creativity. It is recommended that students have successfully completed high school algebra course and have knowledge of a Cartesian system before taking this course.



## **Grades 11, 12 AP Computer Science A (Elective Credit) *New Course!***

**Mr. Dickinson**

The AP Computer Science A course introduces students to computer science with fundamental topics including 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. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. Prerequisites for this course are knowledge of basic English and algebra, including functions and function notation.

## Arts

### **Grades 6 - 12 Studio Arts (Elective/Arts Credit)**

**Miss Soo**

This is a class designed with the serious art student in mind. We will emphasize art as an ongoing process that involves you making informed and critical decisions while working in a number of different artistic realms: drawing, 2-D and 3D pieces. You will add to your technical artistic skills and become more aware of all aspects of visual artistic elements. Students will create projects that range from the political to the personal and whimsical by using a variety of media - for example, a collage that makes a powerful visual statement about an important issue or a Picasso-like sculpture splashed with color and pattern. A key focus is the language of art, known as the Elements and Principles of Design. Some key art movements are studied as well as the larger question: "What is Art?" Feedback and reflection are other important parts of the learning process, facilitated by our art teacher. This class will open students' eyes to new ideas about art and creativity.

### **Grades 10 – 12 AP Studio Art (Elective/Arts Credit) *New Course!***

**Miss Soo**

AP Studio Art is designed for students who are seriously interested in the practical experience of creating an art portfolio. The class focuses on critical analysis and innovative art-making processes in which students create and submit portfolios for 2-D Design, 3-D Design, and Drawing. Students should be able to recognize quality in their own work, concentrate on sustained investigation of a particular visual interest or problem, and use a range of approaches in the formal, technical, and expressive means of an artist.

### **Grades 6 - 12 Orchestra A/B (Elective/Arts Credit)**

**Dr. Kim**

This performance based class includes music composed for small instrumental ensembles and performed without a conductor. Traditionally intended for performance in a room or reception hall, often solely for the performers' own pleasure, chamber music is now often heard in concert halls. Students will hone their musical skills and perform publicly numerous times throughout the year. Students may take Orchestra A (Period 1) or Orchestra B (Period 7), but not both.



## ***Grades 10 – 12 AP Music Theory (Elective/Arts Credit) New Course!***

***Dr. Kim***

AP Music Theory is a college level class covering musicianship, theory, musical materials, and procedures. Musicianship skills, including dictation and other listening skills, sight singing, and harmony, are an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard in a score. The class also includes developing mastery in the rudiments and vocabulary of music, including hearing and noting pitches, intervals, scales and keys, chords, meter, and rhythm.

## **World Languages**

### ***Grade 6-8 MS Spanish 1***

***Mr. Inciarte***

This first-year Spanish sequence will introduce students to the basics of the language and help to develop their expressive confidence. Through stories, songs, games, and other activities, students will communicate about their family and friends, likes and dislikes, school, food, and the world around them. Lessons will focus on specific strategies to help students improve in the four skill areas of listening, reading, writing, and speaking.

### ***Grade 6-8 MS Spanish 2***

***Mr. Inciarte***

This second-year Spanish sequence will build on skills learned in Spanish I, expand vocabulary, increase literacy skills, and give students confidence to express themselves in the Spanish language. Students will work individually and collaboratively in groups to communicate about their personal lives, their communities, and the world around them. Lessons will focus on specific strategies to help students improve in the four skill areas of listening, reading, writing, and speaking.

### ***Grade 9-12 HS Spanish 1 (Foreign Language Credit)***

***Ms. Sánchez Armstrong***

This first-year high school Spanish sequence will introduce students to the foundation of the language and help to develop their expressive confidence. Through individual and collaborative activities, students will communicate about their family and friends, likes and dislikes, school, food, culture, and the world around them. Lessons will focus on specific strategies to help students develop vocabulary, literacy, and improve in the four skill areas of listening, reading, writing, and speaking.

### ***Grade 9-12 HS Spanish 2 (Foreign Language Credit)***

***Ms. Sánchez Armstrong***

This second-year Spanish sequence will build on skills learned in Spanish I, expand vocabulary, increase grammar proficiency, develop literacy skills, and give students confidence to express themselves more fully in the Spanish language. This course will prepare students to communicate in various times and tenses through the exploration of topics such as the body, the home, shopping, and travel. Through songs, introductory novels, videos, and other authentic materials, students will be immersed in the Spanish language and related cultures in order to improve in the four skill areas of listening, reading, writing, and speaking.



## ***Grade 9-12 HS Spanish 3 (Foreign Language Credit)***

***Ms. Sánchez Armstrong***

This Spanish 3 course will review and build on prior skills learned in Spanish I and Spanish II, moving students closer to fluency. This level of Spanish instruction assumes a basic-intermediate knowledge of grammar concepts and vocabulary introduced in Spanish I and II. Emphasis is on communicating in Spanish through reading, listening, writing, and speaking in various contexts and aspects of time. Students also study Hispano-American and Spanish cultures, geography, and history through literary texts, film, pop songs, and other authentic materials. Students will frequently participate in individual, paired, and group activities as well as complete written and oral projects to practice and apply new vocabulary and grammar concepts.

## ***Grades 10-12 AP Spanish (Foreign Language Credit) **New Course!*****

***Ms. Sánchez Armstrong***

This advanced Honors Spanish course will review, build upon, and greatly enhance prior skills learned in Spanish I-IV. This level of Spanish instruction assumes an intermediate-high knowledge of grammar concepts and vocabulary. The course will be structured much like a Humanities course, with strong emphasis is on inquiry, composition, and communication in Spanish, rooted in literature and in-depth projects. Students will be expected to actively participate (individually, in partners, and as a whole class) through daily reading, writing, speaking, and listening. Sample course topics include: the Spanish Civil War, comparing cultures and writing persuasively, and examining identity through the Chicano movement.

## ***Grades 9 – 12 Korean for Non-Native Speakers (Foreign Language Credit)***

***Ms. Lee***

This course is for non-native speakers of Korean only. It is a beginning class - very basic to advanced beginner - and students within the class will receive lessons appropriate for their level of Korean understanding.

## ***Grades 9 – 12 Korean for Native Speakers (Foreign Language Credit)***

***Ms. Lee***

This course is for Native Korean speaking students who want to learn academic Korean language. In this course, students deal with Korean literature and historical background of the times the literature written. Students also will have chances to make creative writings and presentations in Korean.

## **Support Services**

### ***Grades 6 – 8 ELL Language Development***

***Ms. Suk***

This non-graded class is designed to further develop the listening, speaking, reading, and writing skills of English Language Learner (ELL) students based on the WIDA English language proficiency assessment. Students work toward their individual language goals through a variety of hands-on small group and partner activities. Students develop their knowledge of academic English related to vocabulary, comprehension, and fluency in order to be successful in their content area classes. ELL Language Development content may also support English/language arts class units.



## ***Grades 9 – 12 ELL Language Development***

***Ms. O'Brien***

This non-graded class is designed to further develop the listening, speaking, reading, and writing skills of English Language Learner (ELL) students based on the WIDA English language proficiency assessment. Students work toward their individual language goals through a variety of hands-on small group and partner activities. Students develop their knowledge of academic English related to vocabulary, comprehension, and fluency in order to be successful in their content area classes. ELL Language Development content may also support English/language arts class units.