yantai huasheng
international school
A LifePlus® International School

Secondary Program Guide

2025-2026

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Purpose Statement

Yantai Huasheng International School is committed to providing transformative, holistic K12 education to develop globally-minded individuals who learn, love, and lead.

This Secondary program guide explains the opportunities that the secondary offers each student. These opportunities are designed in alignment with the school's purpose statement of providing a transformative holistic K-12 education to develop globally-minded individuals who learn, love, and lead. The secondary schedule, activities, curriculum, and learning environment are all designed around the things that make secondary students special. This guide also contains information about the minimum YHIS high school graduation requirements and course offerings for students to meet their academic and college goals. As students begin choosing courses for next year and beyond, keep in mind that students will perform best when a program is selected that includes courses that are personally interesting and at an appropriate level of challenge. Students are responsible for taking time to understand the secondary program and the specific information of the courses they desire to take (pre-requisites, credit value, etc.)

All members of the YHIS team are available to assist students and parents as courses are selected for the next academic year.

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Graduation Requirements

24 units of high school credit are required for graduation from any LifePlus international school in the China or MENA Region. One half credit is given for each full semester of a course successfully completed in 9th through 12th grades. A failing grade in a course does not earn any credit.

Students from any of our China or MENA Region schools must meet the following requirements during their 9th through 12th grade years to be eligible for graduation:

- 4 credits of English
- 3 credits of Social Studies
- 3 credits of Science
- 3 credits of Mathematics
- 2 credits of Foreign Language
- 2 credits of Physical Education and Health
- 1 credit of Fine Arts

- 3 credits of Philosophy*
  - 4 years in a LifePlus China School: 3 credits of Philosophy
  - 3 years in a LifePlus China School: 2 credits of Philosophy
  - 2 years in a LifePlus China School: 1.5 credit of Philosophy
  - 1 year in a LifePlus China School: 1 credit of Philosophy

- 3 elective credits as needed

In addition to the required course credits, schools may also require additional courses for graduation eligibility, such as junior and senior seminar, speech, etc. Students receive elective course credit for such requirements.

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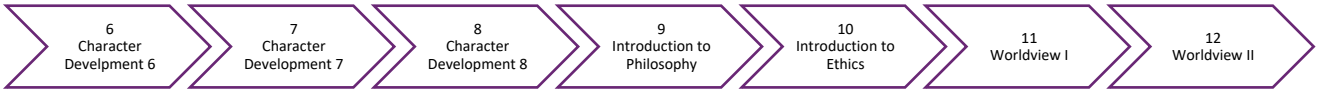
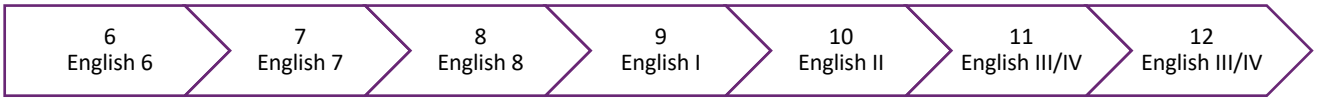
Core Content Course Progressions

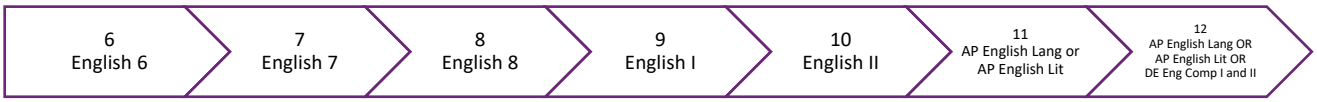
Character Development and Philosophy



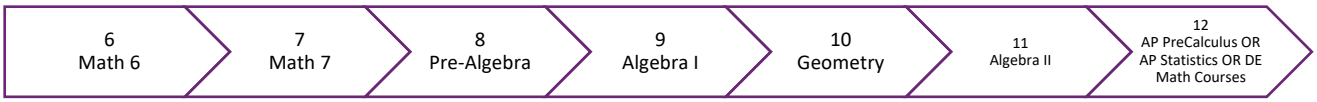
English: Standard Progression



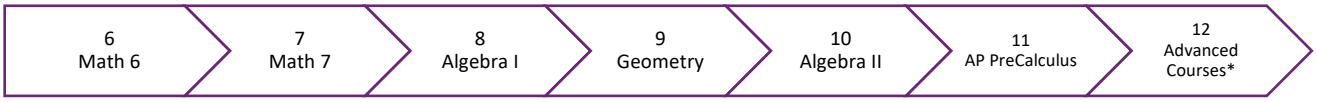
English: Advanced Progression



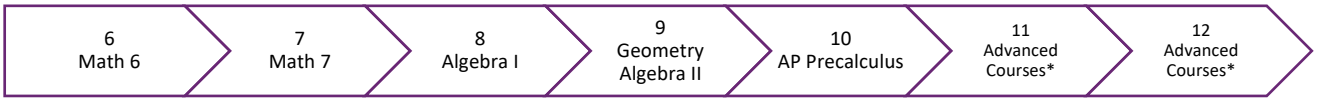
Mathematics: Standard Progression



Mathematics: STEM Focus Progression



Mathematics: Advanced Progression



3 credits of math must be completed in grades 9-12, regardless of course level
*Advanced Courses include AP Calculus, AP Statistics, or Dual Enrollment Math Courses

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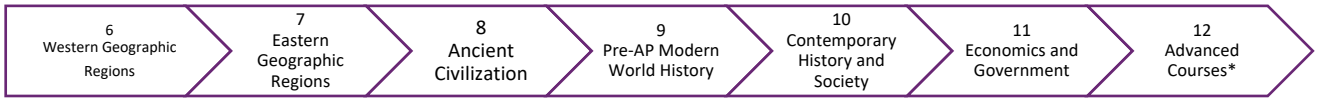
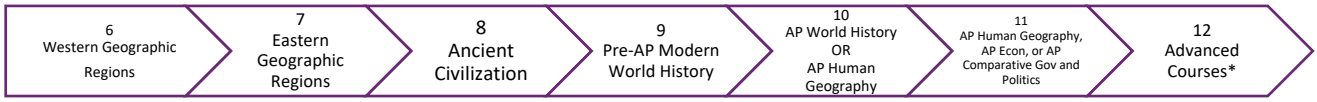
Social Studies: Standard Progression



Social Studies: Advanced Progression



3 credits of Social Studies must be completed in grades 9-12, regardless of course level
1 credit of Social Studies must be completed in each category: History, Culture/Society, and Government/Economics
*Advanced Courses include AP World History, AP Human Geography, AP Economics, AP Comparative Government and Politics or approved Dual Enrollment courses

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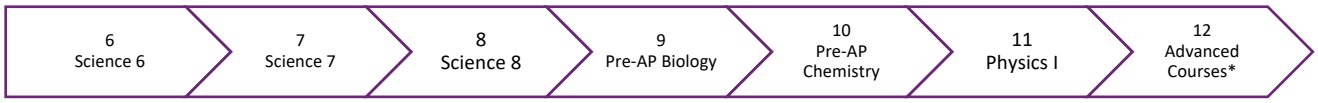
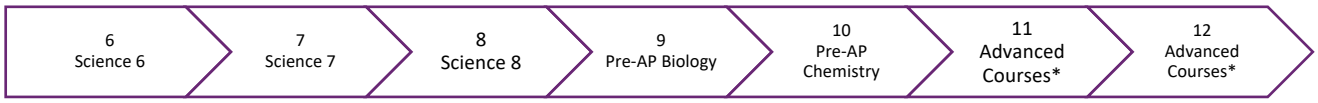
Science: Standard Progression



Science: Advanced or STEM Progression



3 credits of Science must be completed in Grades 9-12, regardless of course level
2 credits of Science must be in the lab sciences
*Advanced Courses include AP Biology, AP Chemistry, AP Physics I, AP Environmental Science, AP Physics C Courses, AP Computer Science, or Dual Enrollment Science Courses

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Middle School Courses

Character Development

Character Development 6
ISC_10601
This multidisciplinary course emphasizes character development and understanding the nature of truth and knowledge. It introduces students to the concept of worldview, how it shapes the world we live in, and our understanding of the world.

Character Development 7
ISC_10701
This multidisciplinary course emphasizes character development and understanding the nature of relationships. In this course, students examine how relationships influence them and their worldview. Students develop the tools needed to maintain healthy relationships.

Character Development 8
ISC_10801
This multidisciplinary course emphasizes character development and understanding the nature of leadership. In this course. students will examine the qualities of exemplary leaders throughout history, and apply the concepts they are discovering through project-based service learning.

English

English 6
ISC_20601
English 6 targets writing as foundational to academic success in the middle school program. Students develop paragraph and essay writing skills. The course also has explicit time to study grammar and vocabulary to improve students' communication skills. Grade 6 English literature is focused on the theme of adventure. As students read both fiction and non-fiction, they develop close reading and critical thinking strategies.

English 7
ISC_20701
Grade 7 English continues to build on the foundational skills of writing begun in English 6, focusing on paragraph and essay writing. English 7 has an explicit time to study grammar and vocabulary. The literary theme for English 7 is journeys, using fiction and non-fiction texts to develop students' close reading and critical thinking strategies.

English 8
ISC_20801
Grade 8 English continues to strengthen students' essay writing skills. Research skills are developed. English 8 has an explicit time to study grammar and vocabulary. The literary theme for English 8 is challenges, using fiction and non-fiction texts to develop students' close reading and critical thinking strategies.

English Language Support

English 6 (ELS), English 7 (ELS), English 8 (ELS)
ISC_20601E, ISC_20701E, ISC_20801E
The students build on foundational language skills in reading, writing, and grammar. Concurrent with this course, students attend core classes, such as science, social studies and English, with the goal of

acquiring academic English language skills. The ELS department oversees students' language development, and teams with classroom teachers to provide needed accommodations in curriculum, assignments, and assessments.

MS English Language Support
ISC_77501
This course prepares Grade 6-8, WIDA Level 1-4 students for a rigorous secondary education.

Math

Math 6
ISC_30601
Math 6 prepares students with the essential mathematical skills for future study in Pre-Algebra and subsequent Algebra classes. Major units include arithmetic, patterns and variables, number theory, data and graphs, ratios and proportions, geometry and measurement, probability, integer operations, equations, and inequalities.

Math 7
ISC_30701
Math 7 expands on learning from Math 6. Major units include arithmetic, patterns and variables, number theory, data and graphs, ratios and proportions, geometry and measurement, probability, integer operations, equations, and inequalities.

Pre-Algebra
ISC_37501
Pre-Algebra serves as a bridge between Math 7 and Algebra. This course builds a foundation of algebraic concepts using technology, manipulatives, problem solving, and cooperative learning. Concepts include algebraic expressions, linear equations, polynomials, factoring, inequalities, geometry, statistics, and graphing. Problem solving, reasoning, estimation, and connections between math and everyday applications will be emphasized.

Algebra I
ISC_37502
Algebra I explains families of functions, with special emphasis on linear and quadratic functions. As students study each family of functions, they learn to represent them as verbal descriptions, equations, tables, and graphs. They also learn to model real-world situations using functions in order to solve problems arising from those situations.

Science

Science 6
ISC_40601
Science 6 focuses on building lab and content knowledge targeting the main ideas of life science, Earth/space science, and physical science in connection with how they operate as an intricate system. Through various hands-on labs and content learning, students investigate real-world problems using the scientific method.

Science 7
ISC_40701
Science 7 investigates the world of living and nonliving things, at levels both large and small, by experimenting with aspects of interactions on Earth. Students explore a variety of the physical world,

complexity of matter, relationship between living things and Earth, and discover the scientific world of geography. Students apply the scientific method in laboratory activities.

Science 8
ISC_40801
Science 8 delves into topics such as geologic time, natural selection and adaptations, evidence of evolution, forces and motion, mechanical energy, electromagnetic forces, waves, light, information technology, Earth and human activities, the Sun-Moon-Earth system, and exploring the universe. Students continue to build understanding of scientific concepts and real-life application and develop engineering skills by engaging in hands-on science investigations.

Social Studies

Western Geographic Regions
ISC_50601
In this year-long course, students explore the regions of the Western World (Europe, Russia, and the Americas) through the lens of physical and human geography. Special emphasis is given to the geographical themes of location, place, movement, human-environment interactions, and regions. Students will focus on mapping skills.

Eastern Geographic Regions
ISC_50701
In this year-long course, students study the regions of the Eastern World (Africa, Asia, and Oceania) through the lens of geography and history. Students explain forces that result in world interaction and explain the causes and effects of migration. They learn how culture shapes behavior and identity. Students study economic effects of environmental changes, as well as analyze and describe strengths and weaknesses of various forms of government.

Ancient Civilizations
ISC_50801
In this year-long course, students study past civilizations including the early cradles of civilization and the classical, pre-Columbian Americas to understand the character of the present, and the challenges of the future. Emphasis is placed on understanding the rise, flourishing, and legacy of all major civilizations. Students demonstrate competency in historical research, identifying patterns of historical change, examining major religions, explaining different systems of governance, and describing the influence of scientific knowledge and the use of technologies on cultures. Students utilize primary sources and acquire background knowledge to conduct the research necessary to construct a coherent essay, a major assessment piece of this course.

Foreign Languages

MS Chinese Novice
ISC_77501_1
Middle School Novice is a beginning level class designed for students who have little to no Chinese language ability. In this course, students learn to express themselves in conversations on familiar topics using a variety of words, phrases, simple sentences. Course materials focus students on learning by doing, not simply learning through memorization. The focus of each unit then shifts to reading and writing to develop students' full range of communication abilities. Listening, speaking and writing skills are used in context of authentic Chinese culture to develop students' full range of communication abilities.

MS Chinese Intermediate
ISC_77501_2
Middle School Chinese Intermediate is designed for students who have studied Chinese for at least one year, have mastered more than 600 Chinese words, and have intermediate language ability. Students will continue to build on listening, speaking, reading and writing skills acquired at the novice level. For students to understand the formation of characters, this course stresses the importance of teaching basic strokes, stroke order, character structures, and radicals. To cultivate the ability of language use in Chinese, students are encouraged to think independently and critically. As student's Chinese language skills increase, they learn more about contemporary China and Chinese culture.

MS Chinese Advanced
ISC_77501_3
Middle School Chinese Advanced provides further language development to those who already can speak, read, write, and listen at an intermediate Chinese level. Students enhance their abilities using the target language and enrich their understanding of Chinese culture. Students deepen reading comprehension skills by reading stories, fairy tales, and prose, as well as studying idioms. They read and understand essays of about 600 words.

MS Chinese Native
ISC_77501_4
The purpose of this course is to challenge those of native Chinese language ability. Students focus on literature, grammar, and writing. Students gain enhanced listening, reading, and comprehension skills. Students also achieve a higher level of speaking and writing skills.

Physical Education

MS Physical Education
ISC_87501
Physical Education and Health in the middle school program is designed to teach students the necessary physical skills, knowledge, and personal-social attributes needed to maintain a healthy and active lifestyle. In the physical education portion of this class, students use aerobic and anaerobic exercises, including plyometrics, agility drills, and running. Building on previously acquired skills, students play a variety of team sports including, but not limited to volleyball, basketball, soccer, ultimate Frisbee, and badminton. Physical education provides a learning experience that meets students' developmental needs, encourages emotional maturity, and improves social skills. The health portion of this class includes learning about bodily systems, nutrition, exercise, and mental health. Students are encouraged to make healthy living and exercise a regular part of their lives.

Fine Arts

Music 6
ISC_60602
The purpose of this course is to help students grow in musical literacy, expression and understanding. Students learn to read, write, improvise, and perform in duple and triple meter. They learn about how music intersects with dance, acting, and the visual arts, in operas and musicals.

Music 7
ISC_60702
Students develop reading, improvising and performance skills in a recorder ensemble (including sopranino, soprano, alto, tenor, and bass recorders). They compose, notate, and perform their own musical compositions. They also study and analyze the musical heritage of various cultures around the world.

Music 8
ISC_60802
The purpose of this course is to help students grow in musical literacy, expression, and understanding. Students learn to read, write, improvise, and perform in duple and triple meter. They learn about how music intersects with dance, acting, and the visual arts, in operas and musicals.

MS Choir
ISC_67504
Middle School choir is a performance-based choral singing course. Students develop confidence by singing alone and with others. The course is centered around choral and vocal technique which involves mostly ear training. Students learn to sing solfege scales, intervals, and chords without aid from a piano. They learn to follow the conductor on entrances, cut-offs, tempo changes, and dynamics. Students also learn basic concert etiquette.

MS Beginning Band
ISC_67502
Middle School Beginning Band is a performance-based concert band course. The beginner's course lays a foundation of basic instrumental skills, developing techniques on one concert band instrument, while learning to use those skills within the context of a full band setting. Students learn to read, finger, and play scales in a variety of key signatures. They learn to follow the conductor on entrances, cut-offs, tempo changes, and dynamics. Students also demonstrate basic concert etiquette.

MS Band
ISC_67503
Middle School Band is a performance-based concert band course. Building upon a foundation of basic instrumental skills, students continue to develop techniques on one concert band instrument while learning to use those skills within the context of a full band setting. Students learn to read, finger, and play scales in a variety of key signatures. They learn to follow the conductor on entrances, cut-offs, tempo changes, and dynamics. Students also demonstrate basic concert etiquette.

MS Theater
ISC_67505
Middle School Theater is a performance-based course. Students develop analytical, interpersonal, and public speaking skills through, drama creation, and production. Students grow in teamwork and creativity, as they learn physical and vocal acting techniques, characterization technique, and performance responsibility. Topics of artistic choice and critique are studied through exploration of genres such as comedy and musical theater.

Art 6
ISC_60601
This course introduces two-dimensional design and drawing skills through the creation of art and the study of art history. Students learn 2D-design vocabulary, media, and processes. They study the basic elements and principles of art: line, color, texture, value, and shape. Students create projects to reinforce their learning. They also learn and practice drawing skills to develop their observation skills, refine their technique, and improve hand-eye coordination when creating artwork.

MS Art
ISC_67501
This course continues to build on the two-dimensional design and drawing skills from Art 6. Students continue to study elements and principles of art: line, color, texture, value and shape/form and space. Students create projects to reinforce their learning. They also learn and practice drawing skills to develop their observation skills, refine their technique, and improve hand-eye coordination.

Electives & Technology

MS Technology
ISC_97501
This course prepares middle school students to use the computer for basic purposes. Students learn MS Word ™ and PowerPoint ™ to prepare documents. They learn to type proficiently and learn how to use proper protocol for communicating through email. Students study the rights, responsibilities, and opportunities of living, learning, and working in an interconnected digital world. They curate a variety of resources using digital tools to produce creative artifacts and interact meaningfully with others.

MS STEM
ISC_97502
MS STEM integrates science, technology, engineering, and mathematics. Students apply mathematical and scientific concepts to engineering based problems. Basic coding covers an introduction to the principles of programming, including algorithms and logic. Students engage in hands-on programming tasks, as they write and test code using the same approaches professional programmers use.

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High School Courses

Philosophy

Introduction to Philosophy
ISC_19501
1.0 Philosophy Credit
Grade Level: 9
Prerequisites: None
Students develop an understanding of basic philosophical methods and ideas, including their origins and relevance. They solve philosophical problems and explore the philosophy expressed in ancient wisdom literature. Note: Grade 9 requirement

Introduction to Ethics
ISC_19510
1. Philosophy Credit
Grade Level: 10
Prerequisites: Introduction to Philosophy
Introduction to Ethics and Leadership is a dynamic and engaging course designed to equip 10th-grade students with the foundational skills and knowledge necessary to navigate ethical dilemmas and assume leadership roles in various aspects of life. This course encourages students to explore the principles of ethical decision-making and the qualities that define effective leadership. Throughout the course, students will engage in debates, case studies, and collaborative projects. Note: Grade 10 requirement

Worldview I
ISC_19511
0.5 Philosophy Credit
Grade Level(s): 11
Prerequisites: Intro to Philosophy
Worldview I guides students through the foundational concepts and frameworks that shape how individuals perceive and interpret the world around them. This course serves as a precursor to Worldview II, providing students with the essential tools to critically analyze and understand the diverse perspectives that influence human thought and behavior. This course encourages students to become more self-aware and thoughtful about the lenses through which they view the world, setting the stage for lifelong learning and exploration. Note: Grade 11 Requirement

Worldview Survey & Development
ISC_19508
1 Philosophy Credit
Grade Level(s): 12
Note: Grade 12 Requirement for class of 2025-26 only
Students analyze major worldviews and religions using a critical and comprehensive approach. The goal is to seek truth and evaluate for internal logical consistency. Ultimately, students fully explore their own personal worldview, articulate it clearly, and defend it before an audience.

Worldview II
ISC_19512
.05 Philosophy Credit
Grade Level(s): 12
Note: Grade 12 Requirement beginning class of 2026-27

Students analyze major worldviews and religions using a critical and comprehensive approach. The goal is to seek truth and evaluate for internal logical consistency. Ultimately, students fully explore their own personal worldview, articulate it clearly, and defend it before an audience.

English

English I
ISC_20901
1.0 English Credit
Grade Level(s): 9
Prerequisites: None
English I exposes students to a blend of contemporary and classic literature and informational texts that help them gain an understanding of the importance of feeling empathy for others, assuming the responsibilities of leadership, pursuing dreams, and distinguishing between different types of love. Exploration of these thematic concepts is paired with instruction and learning opportunities designed to help students demonstrate proficiency of Grade 9-10 AERO standards. These standards are divided into strands of reading, writing, listening, speaking, and language foundations. Note: Grade 9 Requirement

English II
ISC_21001
1.0 English Credit
Grade Level(s): 10
Prerequisites: English I or equivalent
English II exposes students to a blend of contemporary and classic literature and informational texts that help them consider how much control we and technology, exerts over our lives, as well as what we share and gain through interaction with others. Exploration of these thematic concepts is paired with instruction and learning opportunities designed to help students demonstrate proficiency of Grade 9-10 AERO standards. These standards are divided into strands of reading, writing, listening, speaking, and language foundations. Note: Grade 10 Requirement

English III/IV (US Focus)
ISC_21101
1.0 English Credit
Grade Level(s): 11/12
Prerequisites: English II or equivalent
English III/IV (US Focus) exposes students to a blend of contemporary and classic literature and informational texts. Students contemplate various themes including courage, curiosity, humility and discernment. Exploration of these thematic concepts is paired with instruction and learning opportunities designed to help students demonstrate proficiency of Grade 11-12 AERO standards. These standards are divided into strands of reading, writing, listening, speaking, and language foundations. This course may be offered on alternating years on some campuses. Note: Offered in even-odd (e.g. 2018-2019) school years on some campuses

English III/IV (British Focus)
ISC_21201
1.0 English Credit
Grade Level(s): 11/12
Prerequisites: English II or equivalent
In English III/IV (British Focus), students study a blend of contemporary and classic literature and informational texts to analyze literature, conduct research, create presentations and speeches, and rhetorically analyze and evaluate speeches and essays. Thematic studies will be centered around courage

and humility, the human condition, service and compassion, and emotional currents. Exploration of these thematic concepts is paired with instruction and learning opportunities designed to help students demonstrate proficiency of Grade 11-12 AERO standards. These standards are divided into strands of reading, writing, listening, speaking, and language foundations. Note: Offered in odd-even (e.g. 2019-2020) school years on some campuses

AP English Language and Composition
ISC_29520
1.0 English Credit
Grade Level(s): 11/12
Prerequisites: English II or AP English Literature
This college-level course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects primarily in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods. This course aligns to an introductory college-level rhetoric and writing curriculum. Note: Offered in even-odd (e.g. 2018-2019) school years on some campuses

AP English Literature and Composition
ISC_29521
1.0 English Credit
Grade Level(s): 11/12
Prerequisites: English II or AP English Language
This college-level course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. This course aligns to an introductory college-level literature and writing curriculum. Note: Offered in odd-even (e.g. 2019-2020) school years on some campuses

DE English Composition I
ENG_105
0.5 English Credit
Grade Level(s): 11/12
Prerequisites: None
This is a writing-intensive course in writing academic prose, including various types of essays, arguments, and constructions. Note: GCU ENG-105 may serve as a substitution for English III or English IV

DE English Composition II
ENG_106
0.5 English Credit
Grade Level(s): 11/12
Prerequisites: ENG_105
This course explores various types of research writing, with a focus on constructing essays, arguments, and research reports based on primary and secondary sources. This is a writing intensive course. Note: GCU ENG-106 may serve as a substitution for English III or English IV

Math

Algebra I
ISC_37502
Algebra I explains families of functions, with special emphasis on linear and quadratic functions. As students study each family of functions, they learn to represent them as verbal descriptions, equations, tables, and graphs. They also learn to model real-world situations using functions in order to solve problems arising from those situations.

Geometry
ISC_39503
1.0 Math Credit
Grade Level(s): 9
Prerequisites: Algebra I
Geometry focuses on the recognition, understanding and use of geometric properties. Students study the relationships among points, lines, planes, angles, triangles, quadrilaterals, and other polygons of Euclidean Geometry. They complete algebraic, coordinate, and deductive proofs of these relationships, and study measurements of both two and three-dimensional figures. Students are introduced to advanced topics such as right triangle trigonometry, which will prepare them for Algebra 2 and beyond. Note: Grade 9 requirement, if not taken in middle school

Algebra II
ISC_39502
1.0 Math Credit
Grade Level(s): 9/10
Prerequisites: Algebra I and Geometry
Algebra II expands on the topics begun in Algebra I. Students learn how to work with and graph functions, solve linear equations and systems, quadratic functions, and exponential and logarithmic functions. The course introduces students to series, conic sections, introductory probability and statistics, matrices, and trigonometric functions.

Pre-Calculus
ISC_39504
1.0 Math Credit
Grade Level(s): 10/11/12
Prerequisites: Algebra II or equivalent
Pre-Calculus focuses on the development of the student's ability to understand and apply functions and advanced mathematics concepts to solve problems. The course includes a rigorous, in-depth study of polynomial, rational, exponential, logarithmic, and trigonometric functions. It also covers conic sections, polar coordinates, sequences and series, an introduction to limits, derivatives, and integrals as well as probability and functions of random variables. The course provides the necessary skills and background for both AP Calculus and AP Statistics. Emphasis is placed on active participation through modeling, experiments, technology lab activities, group activities, and communication in mathematics.

AP Pre-Calculus
ISC_39519
1.0 Math Credit
Grade Level(s): 10/11/12
Pre-requisites: Algebra II or equivalent
AP Pre-calculus centers on functions modeling dynamic phenomena. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science. Furthermore, as AP Pre-calculus may be the last

mathematics course of a student's secondary education, the course is structured to provide a coherent capstone experience rather than exclusively focusing on preparation for future courses.

AP Calculus AB
ISC_39521
1.0 Math Credit
Grade Level(s): 11/12
Prerequisites: Pre-Calculus
AP Calculus AB covers topics in differential and integral calculus these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. You'll learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

AP Calculus BC
ISC_39522
1.0 Math Credit
Grade Level(s): 11/12
Prerequisites: Pre-Calculus
AP Calculus BC extends the content learned in AB to different types of equations and introduces the topic of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. Students learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students also learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

AP Calculus AB/BC
ISC_39520
1.0 Math Credit
Grade Level(s): 11/12
Prerequisites: Pre-Calculus
AP Calculus AB/BC is a college-level course consisting of a semester-long study of AP Calculus AB and a semester-long study of AP Calculus BC. From the AP Calculus AB and BC Course and Exam Descriptions, this course is divided into two primary divisions: differentiation and integration. Topics studied in differentiation include continuity, limits, the basis and application of differentiation, curve sketching, motion, optimization, implicit differentiation and related rates. For integration, topics include Riemann sums and definite integrals, integration methods including u-substitution, integration by parts, and trig substitution, and other miscellaneous topics such as the fundamental theorem of calculus, the mean value theorem, areas and volumes of revolution and cross sections and differential equations. Note: Must have permission of the instructor

AP Statistics
ISC_39523
1.0 Math Credit
Grade Level(s): 11/12
Prerequisites: Algebra II
This college-level course introduces students to the concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing to reveal understanding. Note: Students should have a strong command of English to enroll in this course

DE College Mathematics
MAT_144
0.5 Math Credit
Grade Level(s): 11/12
Prerequisites:
The course covers mathematics that matter in modern society. Key areas of focus include financial literacy, numerically-based decision making, growth, scale, and numerical applications. The course applies basic college-level mathematics to real-life problems and is appropriate for students whose majors do not require college algebra or higher. Note: GCU MAT-144 may serve as a substitution for 3rd HS Math credit

DE Personal Finance
FIN_210
0.5 Math Credit
Grade Level(s): 11/12
Prerequisites:
This course provides students with skills to make rational, personal finance decisions. There is an emphasis on money management and the responsible use of credit. Strategies for wealth building and retirement planning are also introduced.

DE Pre-Calculus
MAT_261
0.5 Math Credit
Grade Level(s): 11/12
Prerequisites: MAT_134 or MAT_154
This course presents the fundamentals of algebra and trigonometry with an applied emphasis; it provides the background and introduction for the study of calculus. Topics include review of linear equations and inequalities in one and multiple variables; functions and their graphs; polynomial, rational, exponential, logarithmic, and trigonometric functions; vectors and complex numbers. Slope and rate of change are introduced to set up the concepts of limits and derivatives. There is an emphasis on both an understanding of the mathematical concepts involved as well as their application to the principles and real-world problems encountered in science and engineering. Software is utilized to facilitate problem analysis and graphing.

Science

Pre-AP Biology
ISC_49531
1.0 Lab Science Credit
Grade Level(s): 9
Prerequisites: None
In Pre-AP Biology, students engage in real-world data analysis and problem solving that sparks critical thinking about our living world. As students engage in grade-level content, they utilize the kind of scientific reasoning skills needed to analyze the natural world—and to succeed in future science and social science courses in high school and college.

Pre-AP Chemistry I
ISC_49532
1.0 Lab Science Credit
Grade Level(s): 10/11/12
Prerequisites: Algebra I
In Pre-AP Chemistry, students develop a deep conceptual understanding of matter and energy at the molecular level as they learn to explain their macroscopic observations using particulate-level reasoning. As

students engage in grade-level content, they utilize scientific reasoning skills needed to analyze the natural world—and to succeed in future science and social science courses in high school and college.
Note: Grade 10 recommended

Physics I
ISC_49503
1.0 Lab Science Credit
Grade Level(s): 11/12
Prerequisites: Algebra II or concurrent enrollment
This one-year laboratory science course is a trigonometric-based study of physical phenomena that will serve as a foundation for understanding the science and technology that shape society. Selected topics of study include mechanics, thermodynamics, waves, electrostatics, electric circuits, geometric prand physical optics, and modern physics. Exploration of these concepts is paired with instruction and learning opportunities designed to help students demonstrate mastery of Physics AERO standards and is paired with Next Generation Science Standards.

AP Biology
ISC_49520
1.0 Lab Science Credit
Grade Level(s): 10/11/12
Prerequisites: Biology I, Chemistry I, or concurrent enrollment in Chemistry and English II
AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. The AP Biology course is equivalent to a two-semester college introductory biology course for biology majors.

AP Chemistry
ISC_49521
1.0 Lab Science Credit
Grade Level(s): 11/12
Prerequisites: Chemistry I and Algebra II
The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

AP Physics 1
ISC_49503
1.0 Lab Science Credit
Grade Level(s): 10/11/12
Prerequisites: Geometry and Algebra II or concurrent enrollment in Algebra II
AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.

AP Physics C: Mechanics
ISC_49524
1.0 Lab Science Credit
Grade Level(s): 11/12
Prerequisites: Calculus or current enrollment

AP Physics C: Mechanics is a calculus-based, college-level physics course. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation.

AP Physics C: Electricity and Magnetism
ISC_49523
1.0 Lab Science Credit
Grade Level(s): 11/12
Prerequisites: Calculus or concurrent enrollment
AP Physics C: Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus are used throughout the course.

Environmental Science
ISC_49527
1.0 Lab Science Credit
Grade Level(s): 11/12
Prerequisites: Algebra I, two years of laboratory science (one life science and one physical science)
The Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

DE Environmental Science
BIO_220
0.5 Science Credit
Grade Level(s): 11/12
This course examines the risks and the environmental impact of human behavior and population growth on natural resources. Emphasis is placed on a holistic approach to environmental science using hands-on exercises, environmental surveys, and class discussions to reinforce scientific principles. Note: DE Environmental Science is not a laboratory science course

DE Human Anatomy and Physiology I
BIO_201
0.5 Science Credit
Grade Level(s): 11/12
This course examines the risks and the environmental impact of human behavior and population growth on natural resources. Emphasis is placed on a holistic approach to environmental science using hands-on exercises, environmental surveys, and class discussions to reinforce scientific principles. Note: DE Human Anatomy and Physiology I is not a laboratory science course

DE Human Anatomy and Physiology II
BIO_202
0.5 Science Credit
Grade Level(s): 11/12
This course is the second of a two-course sequence examining the structure and function of the human body and mechanisms for maintaining homeostasis within it. This portion includes the study of immunity, metabolism, energetics, fluid, electrolyte and acid-base balance, and the endocrine,

hematologic, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Note: DE Human Anatomy and Physiology II is not a laboratory science course

DE Micro Biology
BIO_205
0.5 Lab Science Credit
Grade Level(s): 11/12
This course provides an introduction to the principles and applications of microbiology and a study of the general characteristics of microorganisms, their activities, and their relationship to humans. Students develop understanding of microbial cell structure and function, microbial genetics, related pathologies, immunity, and other selected applied areas.

Social Studies

Pre-AP World History
ISC_59531
1.0 Social Studies Credit
Grade Level(s): 9
Prerequisites: None
This course delves into the highlights of world history from A.D. 1000 to the end of the 19th century. Students discern the general shape of a historical period, and deeply explore important ideas, people, events, inventions and a few catastrophes, within the context of history. This course is designed to cultivate a curiosity to drive future learning using the skills of research, interpretation and analysis of evidence, construction of arguments, and respectful discussion with others.

Contemporary World History
ISC_59502
0.5 Social Studies Credit
Grade Level(s): 10/11
Prerequisites: Modern World History credit or equivalent
This is a semester-long, half-credit, survey course focusing on the recent history of our world. Students will interview people who have been a part of this portion of history including events of the Cold War, globalization and 9/11.

Contemporary Society
ISC_59503
0.5 Social Studies Credit
Grade Level(s): 10/11
Prerequisites: Modern World History credit or equivalent
This is a semester-long, half-credit course in which students explore major social concepts that shaped and are shaping the contemporary world. These concepts are framed by the AERO Standards and include culture, society, religion, institutions, communities and individual identity. Through the extensive use of current readings, class discussions, and student-led seminars, students are equipped to orient themselves in an ever-complexifying social world, and to base their lives, and decisions on truth.

Economics
ISC_59504
0.5 Social Studies Credit
Grade Level(s): 11/12
Prerequisites: Grade 10 SOC credit
This is a semester-long, half-credit course that will cover both microeconomic and macroeconomics concepts and theories. Students study the concept of scarcity and the cost of every choice. Students

manipulate supply and demand curves to explain the impact of tariffs on world trade. This course covers the different types of firms, including perfectly competitive, oligopolies, and monopolies. Students evaluate the impact of government policy in regulating the business cycle and how it affects unemployment and inflation. Finally, students apply their economic knowledge by creating a real-life budget and personal finance plan.

Government
ISC_59505
0.5 Social Studies Credit
Grade Level(s): 11/12
Prerequisites: Grade 10 SOC credit
This semester-long, half-credit course examines the foundations of political structures and the student's place within those structures. Equally as important as understanding government is knowing what is a virtuous response to and in that government. Students perform "real-life" analyses of governments – particularly by following current news trends and developments.

AP Human Geography
ISC_59520
1.0 Social Studies Credit
Grade Level(s): 10/11/12
Prerequisites: English II and Contemporary World History and/or Contemporary Society
The course introduces students to the systematic study of patterns and processes that have shaped the human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools that geographers use in the research and application of the findings. The AP Human Geography course is an equivalent to an introductory college-level course in human geography.

AP World History: Modern
ISC_59521
1 Social Studies Credit
Grade Level(s): 10/11/12
Prerequisites: Modern World History
This course investigates significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Note: Typically taken in Grade 10

AP Comparative Government and Politics
ISC_59522
1.0 Social Studies Credit
Grade Level(s): 11/12
Prerequisites: Grade 10 SOC credit
The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students compare the effectiveness of approaches to many global issues by examining how different governments solve similar problems. They will also engage in disciplinary practices that

require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments.

AP Economics
ISC_59526
1.0 Social Studies Credit
Grade Level(s): 11/12
Prerequisites: Grade 10 SOC credit
AP Economics is a course consisting of a semester-long study of AP Microeconomics and a semester-long study of AP Macroeconomics, each of which are equivalent to a one-semester introductory college course in economics. AP Microeconomics introduces students to the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. AP Macroeconomics introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. In both Macro and Micro, students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. Note: Students must earn economics credit (AP or regular) to graduate.

AP Microeconomics
ISC_59527
0.5 Social Studies Credit
Grade Level(s): 11/12
Prerequisites: Grade 10 SOC credit and English II
AP Microeconomics introduces students to the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. AP Microeconomics is equivalent to a one-semester introductory college course in economics.

AP Macroeconomics
ISC_59523
0.5 Social Studies Credit
Grade Level(s): 11/12
Prerequisites: Grade 10 SOC credit and English II
AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. AP Macroeconomics is equivalent to a one-semester introductory college course in economics.

DE American Politics and Government
GOV_140
0.5 Social Studies Credit
Grade Level(s): 11/12
This course is an introduction to American government and politics. It covers the constitutional foundations and governing institutions of the federal government. Throughout the course, students address common political themes, such as the nature and scope of governance, democracy, citizenship,

and patterns of political behavior. Note: GCU GOV_140 may serve as a substitution for Government, ISC_59505

DE US History Themes
HIS_144
0.5 Social Studies Credit
Grade Level(s): 11/12
This course provides an overview of the principal political, economic, and cultural themes and constitutional developments that shaped the United States from the Colonial period into the 20th Century.

Foreign Language

HS Chinese Novice
ISC_79502_1
1.0 Language Credit
Grade Level(s): 9-12
Prerequisites: None
HS Chinese Novice provides the students with the very basic Chinese language skills. Students start reading pinyin and tones, hearing pinyin sounds and typing with pinyin. It prepares the students for learning characters by equipping them with basic character knowledge, such as strokes, structures, stroke order, radicals and reading & writing pictographic characters. By building up students' vocabulary, this course helps students to start using Chinese to talk about daily life, give opinions, express feelings, and describe people and things. More than language learning, this course also allows the students to experience Chinese culture through cooking, making Chinese crafts, and playing Chinese traditional fun games.

HS Chinese Intermediate
ISC_79502_2
1.0 Language Credit
Grade Level(s): 9-12
Prerequisites: Proficiency test placement OR Chinese Novice level credit
Building on the Novice level course, students continue to develop their Chinese language levels in listening, reading, writing and speaking. Throughout the class, students will be given various ways and opportunities to meet this goal. Students will also deepen their immersion into Chinese culture by interacting with different topics.

HS Chinese Advanced
ISC_79502_3
1. Language Credit
Grade Level(s): 9-12
Prerequisites: Proficiency test placement OR Chinese Intermediate level credit
This course builds on skills learned at the intermediate level to develop a student's Chinese language level in listening, reading, writing and speaking. Throughout the class, students will be given various ways and opportunities to improve their Chinese abilities. Students will also deepen their immersion into Chinese culture by interacting with different topics.

HS Chinese Native
ISC_79502_4
1. Language Credit
Grade Level(s): 9-12
Prerequisites: Proficiency test placement OR AP Chinese credit
This course is the highest-level Chinese course offered and is designed for near-native level Chinese speakers. Students study famous Chinese literature and ancient poetry; write, create, and produce quality

work that can be published in and outside school. Students broaden their understanding of such aspects of Chinese culture as history, geography, architecture, drama, and nationality. Students in this course develop and/or lead various school-wide activities that promote Chinese culture. They contribute to the school community by such projects as, translating scripts for theatrical productions into Chinese, and interpreting.

AP Chinese Language and Culture
ISC_7950220
1.0 Language Credit
Grade Level(s): 9-12
Prerequisites: Proficiency test placement and teacher recommendation
This college-level course in Chinese emphasizes communication (understanding and being understood) by applying interpersonal, interpretive, and presentational skills, including vocabulary usage, language control, communication strategies, and cultural awareness. The course strives not to overemphasize grammatical accuracy at the expense of communication. The course is taught almost exclusively in Chinese and engages students in an exploration of culture in both contemporary and historical contexts and fosters awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

HS French I
ISC_79504_1
1.0 Language Credit
Grade Level(s): 9-12
Prerequisites: None
In this introductory course, students develop basic proficiency in the four areas of language learning: listening, speaking, reading, and writing. Students ask and answer simple questions as they learn to communicate about themselves, their families, and their friends. Students respond to oral and written prompts about their daily lives and responsibilities. There is a strong emphasis on vocabulary acquisition and verb conjugation at this level.

HS French II
ISC_79504_2
Prerequisites: Proficiency test placement OR French I credit
French II builds on language skills acquired in level I. By the end of this course, students should be able to follow basic commands, count from 1-1000, talk about sports, chores, daily routines in the present progressive tense, and conjugate verbs using the simple preterit tense. Students will also be able to talk about health and parts of the body, as well as be able to make comparisons in French.

HS French III
ISC_79504_3
1.0 Language Credit
Grace Level(s): 9-12
Prerequisites: French II

HS Spanish I
ISC_79506_1
1.0 Language Credit
Grade Level(s): 9-12
Prerequisites: None
In the Spanish I course, students learn basic grammar and vocabulary skills to help build fluency and language proficiency. Students explore the culture of Spanish-speaking countries through engaging

interactive games, videos, and audio recordings, and apply what they learn through written practice, listening, and speaking exercises.

HS Spanish II
ISC_79506_2
1.0 Language Credit
Grade Level(s): 9-12
Prerequisites: Proficiency test placement OR Spanish I credit
Spanish II builds on language skills acquired in level I. By the end of this course, students should be able to follow basic commands, count from 1-1000, talk about sports, chores, daily routines in the present progressive tense, and conjugate verbs using the simple preterit tense. Students will also be able to talk about health and parts of the body, as well as be able to make comparisons in Spanish.

Physical Education and Health

Health and Wellness I
ISC_89501
1.0 Physical Ed and Health Credit
Grade Level(s): 9/10/11
Prerequisites: None
This course teaches students the necessary physical skills, knowledge and personal-social attributes needed to maintain a healthy and active lifestyle. Times of skill development are used to make students more successful at a variety of physical activities. Activities include volleyball, team handball, flag rugby, jogging, badminton, weight training, and fitness activities. These skills are intended to help students discover activities they wish to pursue after high school. The course also includes one health day every week which teaches students the necessary skills to make healthy choices. These health days will include lecture, discussion, laboratory, and investigative settings. Topics include fitness, sports participation, methods of training, spiritual health, health and skill-related fitness, tobacco, drugs, alcohol, skeletal and muscular system, and sports injuries/first aid. Students will also undertake a personal exercise program during the 2nd quarter, which requires researching and planning a program to improve an aspect of either their physical or skill-related fitness.

Health and Wellness II
ISC_89502
1.0 Physical Ed and Health Credit
Grade Level(s): 10/11/12
Prerequisites: Health and Wellness I or equivalent
This course teaches students the necessary physical skills, knowledge and personal-social attributes needed to maintain a healthy and active lifestyle. Skill development is emphasized to make students more successful at activities including volleyball, badminton, ultimate Frisbee, soccer, weight training, fitness activities, football, and flag rugby. These skills are intended to help students discover activities they wish to pursue after high school. The course also includes one health day every week, which is intended to give students the necessary skills to make healthy choices. These health days will include lecture, discussion, laboratory, and investigative settings. Topics include wellness, fitness, cardiovascular system, respiratory system, nutrition, weight management, sexual health, psychological health, environmental health, spiritual health, infectious diseases, and cancer.

Fine Arts

HS Band
ISC_69503
0.5 Fine Arts Credit
Grade Level(s): 9-12
Prerequisites: None
Building upon a foundation of basic instrumental skill, students continue to develop techniques on one concert band instrument while learning to use those skills within the context of a full band setting. Students learn to read, finger, and play scales in a variety of key signatures. They learn to follow the conductor on entrances, cut-offs, tempo changes and dynamics. Students demonstrate basic concert etiquette. (TIS_69503 for full year, 1.0 Fine Arts credit course)

HS Choir
ISC_69504
0.5 Fine Arts Credit
Grade Level(s): 9-12
Prerequisites: None
High School choir is a performance-based choral singing course. Students develop confidence by singing alone and with others. The course is centered around choral and vocal technique which involves mostly ear training. Students learn to sing solfege scales, intervals, and chords without aid from a piano. They learn to follow the conductor on entrances, cut-offs, tempo changes, and dynamics. Students also learn basic concert etiquette. (TIS_69504 for full year, 1.0 Fine Arts credit course)

HS Art I
ISC_69501
1.0 Fine Arts Credit
Grade Level(s): 9-12
Prerequisites: None
Foundations of Art

Independent Study Art Portfolio
ISC_6950150
1.0 Fine Arts Credit
Grade Level(s): 10/11
Prerequisites: Art I and Art II and teacher recommendation
This course is for upperclassmen wanting to expand their portfolio and understanding of art, history, and the artist's role. Guided by their teacher, students develop a portfolio and plan their own art show at the end of each semester. Emphasis is placed on studio work, working with a theme, and developing the artist's style. Students can work in any media they choose. As this is a prerequisite course to AP Studio Art, students in this class are expected to possess foundational understanding of art concepts and theories, the skills and motivation necessary to produce artwork, and foundational knowledge and experience in various media they wish to explore or use for their work.

AP Art: Drawing
ISC_6950121
1.0 Credit
Grade Level(s): 11/12
Prerequisites: Art I and II and teacher recommendation

AP Art: 2-D Design
ISC_6950123
1.0 Credit
Grade Level(s): 11/12
Prerequisites: Art I and II and teacher recommendation

AP Art: 3-D Design
ISC_6950124
1.0 Credit
Grade Level(s): 11/12
Prerequisites: Art I and II and teacher recommendation

The AP Drawing and Design course frameworks presents an inquiry-based approach to learning about and making art and design. Students are expected to conduct an in-depth, sustained investigation of materials, processes, and ideas. The framework focuses on concepts and skills emphasized within college art and design foundations courses with the same intent: to help students become inquisitive, thoughtful artists and designers able to articulate information about their work. AP Drawing and Design students develop and apply skills of inquiry and investigation, practice, experimentation, revision, communication, and reflection.

AP Studio Art
ISC_6950122
1.0 Credit
Grade Level(s): 12
Prerequisites: Art I and II, Independent Study Art Portfolio and teacher recommendation
AP Studio Art students gather a body of high-quality work which is to be submitted as a portfolio in the spring of their senior year. Credit is awarded solely upon potential displayed in the portfolio. As this portfolio represents a large commitment, students taking AP studio art should be committed to studying art at the college level. The class will function similarly to the Independent Study Art Portfolio course. Students should expect to spend time working both in and outside of class over the course of the year and submit a minimum of 15 pieces for the portfolio reading. To that end, AP studio art students will be required to submit 3-5 works completed during the summer between their junior and senior years upon enrollment in the fall.

DE Introduction to Cinema: History & Aesthetics
DFP_101
0.5 Elective Credit
Grade Level(s): 11/12
This course covers multiple eras and movements throughout the age of film.

STEM Electives

Computer Science/Machine Learning
ISC_99551
1.0 Elective Credit
Grade Level(s): 10-12
Prerequisites: Completion of 1 AP Computer Science course
This course introduces advanced coding and combines it with digital programming skills for AI machine learning.

AP Psychology
ISC_09522
1.0 Elective Credit
Grade Level(s): 10/11/12
Prerequisites: Pre-AP Biology
The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas.

AP Computer Science Principles
ISC_49523
1.0 Elective Credit
Grade Level(s): 9/10/11/12
Prerequisites: Algebra II OR concurrent enrollment in Algebra II
AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. Note: AP Computer Science Principles is not a laboratory science course.

AP Computer Science A
ISC_49523
1.0 Elective Credit
Grade Level(s): 10/11/12
Prerequisites: Algebra II OR concurrent enrollment in Algebra II
AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. AP Computer Science A is equivalent to a first-semester, college-level course in computer science.

DE Computer Programming I
CST_105
0.5 Elective Credit
Grade Level(s): 11/12
Prerequisites:
This course introduces the fundamental concepts and syntax of the Java programming language. The course focuses on object-oriented techniques in Java with an emphasis on problem solving and fundamental algorithms.

DE Principles of Sociology
SOC_102
0.5 Elective Credit
Grade Level(s): 11/12
This course presents a survey of the concepts, theories, and methods used by sociologists to describe and explain the effects of social structure on human behavior. It emphasizes the understanding and use of the sociological perspective in everyday life.

DE Psychology
PSY_102
0.5 Elective Credit
Grade Level(s): 11/12
This foundation course in the science of behavior includes an overview of the history of psychology, the brain, motivation, emotion, sensory functions, perception, intelligence, gender and sexuality, social psychology, human development, learning psychopathology, and therapy.

Robotics and Technology
ISC_09555
1.0 Elective Credit
Grade Level(s): 9/10/11/12
Prerequisites: None
This course is divided into two parts: the VEX Robotics Curriculum (twelve primary units) and Special Project using Arduino/Raspberry Pi platforms to create prototype projects. In a flexible format, students learn about engineering and engineering problem solving. They will be given introductions to the VEX Robotics Design System and Autodesk® Inventor® while learning key STEM principles through a process that captures the excitement and engagement of robotics competition. Note: Programming is NOT required.

Additional Electives

AP Seminar
ISC_09521
1.0 Elective Credit
Grade Level(s): 10/11/12
Prerequisites: English I
In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources to develop credible and valid evidence-based arguments. AP Seminar is a prerequisite for AP Research. Completing AP Seminar and all its required assessment components is necessary for students to develop the skills to be successful in AP Research. Note: Students with a score of 90 or above in all of their classes may be granted permission to take AP Seminar beyond the school AP cap; Only offered with teacher availability AND adequate student interest.

AP Research
ISC_09520
1.0 Elective Credit
Grade Level(s): 11/12
Prerequisites: AP Seminar exam score of 3 or above
AP Research, the second course needed for the AP Capstone diploma, is a college-level course that allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their

skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio, paper, and presentation with an oral defense. Note: Students with a score of 90 or above in all of their classes may be granted permission to take AP Seminar beyond the school AP cap; Only offered with teacher availability AND adequate student interest.

Creative Writing
ISC_29501
.5 Elective Credit
Grade Level(s): 9
Prerequisites: None
Students will have the opportunity to explore writing short stories, flash fiction, blogs, poetry, and freewriting. They will have the opportunity to design and present work, and they will collaborate frequently with peers through writing workshops, group story projects, poetry slams, and other presentations. Through this course, students will be able to develop their creativity, process the world around them, and express themselves through the process of writing. They will be able to practice writing narratives, reflections, mystery, comedy, drama, horror, fantasy, suspense, thriller, and more.

Speech
ISC_29505
0.5 Elective Credit
Grade Level(s): 10/11/12
Prerequisites: English I
This course provides oral communication experiences that help students think creatively and express themselves effectively. Students participate in a variety of speech activities, including delivering extemporaneous and persuasive speeches, as well as participating in interviews. Students learn appropriate inflection, volume, pitch, diction, and articulation for speaking.

Special Needs Courses

Special Needs course codes are reserved for students with an existing ILP (Individualized Learning Plan) receiving special education support courses or receiving support through a one-to-one support teacher. These course codes may only be used with the permission of the Superintendent of Schools.

Modified Courses
Modified courses are intended for those students that need one-to-one specialized support and have an existing ILP with key objectives for learning created in collaboration with the ILP Team. Students attend the regular education course with their same age peers and may receive modified assignments as dictated by the ILP and/or receive one-to-one modified supports with the support of an assigned one-to-one support teacher. These course codes may only be used with the permission of the Superintendent of Schools.

Modified courses are designated with the LifePlus Course Codes followed with 'M'.

Exploration Courses
Exploration courses are intended for those students that are in a specialized program, such as LifeSkills, and have an existing ILP with key objectives for learning. Students receive specialized instruction in a specialized program utilizing modified course standards written as ILP objectives created in collaboration with the ILP Team. These course codes may only be used with the permission of the Superintendent of Schools.

Exploration courses are designated with the LifePlus Course Codes followed with 'L' or 'LS.

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