

CATALOG

ACADEMIC Course Catalog & Curriculum Guide

2026
2027



TABLE OF CONTENTS

Introduction	3
Curriculum & Schedule Design	4
Community Values	5
Graduation Requirements	6
College Counseling	8
Computer Science	8
Diversity and Social Justice	12
English	14
History	19
IB Diploma Programme	23
Mathematics	29
Mathematics Course Sequences	28
Physical Education	35
Reading	39
Science	42
Social Emotional Wellbeing	47
Speech and Language Therapy Services	53
Student Life Department	53
Visual & Performing Arts	54
World Languages	66

INTRODUCTION

Our Philosophy

The philosophy of Eagle Hill School focuses on the needs of the individual, both academically and socially. It is our duty as educators to make learning possible and meaningful for each young person. To that end, Eagle Hill School plots a student's course of study based on his or her demonstrated skill, age, learning needs, and interests. By fashioning the classroom instruction around these four elements, academic growth and success can be cultivated over time.

Upon entering the school for the first time and at the start of each subsequent year, faculty advisors collaboratively determine initial placements for each student based upon his or her file of testing and school records.

As social skills mentors, we intentionally teach, model, and practice strategies to negotiate the complex and sometimes foreign world of social relationships. The unique combination of structure and independence at Eagle Hill affords each student the maximum level of attention and support, while simultaneously helping him or her build toward increasing levels of autonomy and advocacy.

Please use this guide to familiarize yourself with the academic resources that Eagle Hill School has to offer students with learning (dis)abilities. Some course offerings are subject to faculty availability as well as student need and interest during any given school year.

CURRICULUM & SCHEDULE DESIGN

Courses may be offered for any duration based on multiple combinations of terms and periods as demonstrated in the table. This table does not represent a complete student schedule. It is meant to convey the flexibility of course duration and scheduling only.

TYPICAL NINTH GRADE SCHEDULE WITH READING SUPPORT

Approximate Term Dates	Term 1 9/14 - 10/8	Term 2 10/9 - 11/4	Term 3 11/5 - 12/7	Term 4 12/8 - 1/15	Term 5 1/18 - 2/12	Term 6 2/22 - 3/17	Term 7 3/18 - 4/13	Term 8 4/14 - 5/20	Term 9 5/21 - 6/10
Com. Prep 7:45-8:39									
Period 1 8:43-9:37	Stage Combat			Thoreau	Fitness for Life	Screen Printing	Basic Black and White Photography		
Period 2 9:41-10:35	First Year Seminar	Physical Science							
Period 3 10:39-11:33	Comedy Sketches from Pen to Performance			Terrorism and Counter-Terrorism			Words, Words, Words!		
Period 4 11:37-12:31	Geometry				The Most Evil Men and Women in History	Geometry			
Lunch 12:35-1:15									
Period 5 1:19-2:13	Masterpieces of Literature: Gothic and the Macabre						Health		
Period 6 2:17-3:11	A New Nation: Independence to Reconstruction			Writers Workshop					
Office Hours 3:11-3:45									

Elements of the Curriculum & Schedule Design

- Each period is 54 minutes.
- Each term is approximately one month.
- Course duration is at the discretion of teachers and department chairs, subject to approval based on student needs and academic integrity.
- Courses can be segmented to support multiple points of entry and individualized pacing. Students can opt to take fewer than the total number of terms offered for a course if the course has been planned in that fashion by the teacher.
- Evening courses are offered on occasion, meeting three days per week for 90 minutes, providing roughly equivalent instructional time to 5-day per week courses.
- Course credit is awarded at one unit per term-period.

COMMUNITY VALUES

Individualized Instruction & Common Experience

- individualization
- students can pursue a focus on an area of special interest
- time for independent study
- students may develop and revise academic plans as their skills, interests, and confidence grow

Academic Rigor & Exploration

- a mechanism for academic exploration
- students benefit from the opportunity to engage in productive risk-taking and learning through challenge
- authentic experiences beyond the classroom are important
- athletics is an integral part of the program
- clubs and activities are considered part of the curriculum

Predictability & Flexibility

- internships are integrated with regularly scheduled academic work
- intentional support is provided as students reflect on and transfer skills between experiences

Structure & Independence

- students are involved in increasingly independent work
- not all “classes” take place in the classroom
- students need “down time”
- progress benchmarks are based on individual students’ needs

Accountability & Assessment

- graduation “requirements” are best understood as a “raft of accomplishments”
- portfolio assessments are endorsed
- course offerings are determined year to year based on student interests and needs
- advisors make recommendations based on a four-year plan

GRADUATION REQUIREMENTS

A traditional college preparatory program of study is offered at Eagle Hill School. At the same time, EHS recognizes the importance of an individualized program of study and utilizes flexible course scheduling based upon a nine-term academic calendar. Working with their academic advisors, department chairs, and parents, students develop their course of study each year. A standard program of study includes six classes meeting five days per week. One academic credit is awarded for each term completed in each course. Following a traditional four-year program of study, students enroll in 216 credits (i.e., 6 classes x 9 terms x 4 years).

Successful completion of 200 credits is required for graduation. Minimum distribution area requirements are outlined in the table below as are general guidelines for competitive college admission.

Please note: upon admission, students are assigned class standing based on a review of their academic history; students admitted on the condition that they repeat a grade will not have the option to advance their class standing at a later date, irrespective of their credit accumulation.

Credit Waivers

Students entering the Eagle Hill School program with previous high school credit may apply to the assistant head of school for academic affairs for a waiver of specific distribution requirements if they have successfully completed promotion requirements at another school. Waivers will be granted at the discretion of the assistant head of school based on demonstrated academic achievement and need.

Summer Session Credit

The Eagle Hill summer session is an academic enrichment program. Summer school courses are non-credit courses.

Community Service

Each student at Eagle Hill School must complete at least ten hours of community service per year as a high school student. Community service is defined as volunteer work that students do to benefit a community in the student's hometown, at school, or through a school-sponsored program. It does not include those experiences where a student is working at a job or working with a for-profit organization. To help students gain an appreciation for helping in the community and assist them in managing their time, we encourage students to complete ten hours per year they are enrolled at EHS as a high school student. Eagle Hill provides a number of on-campus clubs and activities to aid students in earning their community service hours. The community service coordinator must approve other volunteer experiences before a student may receive credit for those hours.

GRADUATION REQUIREMENTS

	MINIMUM CREDITS REQUIRED FOR GRADUATION	REQUIRED COURSE(S)	MINIMUM CREDITS RECOMMENDED FOR FOUR-YEAR COLLEGE PREPARATION
ARTS AND HUMANITIES English Diversity and Social Justice History Visual and Performing Arts World Language	86	Government (8) Social Construction of Identity (3)	108
QUANTITATIVE REASONING Math Science Computer Applications Computer Science	58	Biology (8)	70
CORE ENRICHMENT Social Emotional Wellbeing College Counseling Physical Education	22	Seminar on Learning (1) College Orientation (3) Personal Finance (3) Physical Education or Athletics (12)*	22

*3 credits are awarded for each season in which a student participates in athletics; 4 credits must be earned through coursework

COLLEGE COUNSELING

College Orientation

Course Code: Col100

Description: The College Orientation class is a required course designed to help students understand their learning approaches, explore effective learning strategies in preparation for college, and identify the potential support and accommodations they may need. Students are exposed to various postsecondary options. This is done through discussions, visits from college representatives, and various college search mechanisms. The class also helps students become more prepared for the college process through college visits, mock interviews, and assistance in completing applications.

Prerequisites: None

Permission Required: No

Grades: 11,12

Credits: 3

COMPUTER SCIENCE

The Computer Science department offers students an opportunity to develop strong algorithmic thinking skills, the ability to organize and formalize a complex task by breaking it into manageable component actions and sequencing those components to complete the overall task or achieve an overall goal. Students are encouraged to explore innovative and creative problem-solving strategies, and they develop algorithms to address a wide range of topics or problems.

Through the practice of logical thinking, students are exposed to instruction in debugging code (i.e., identifying and correcting errors in a program), determining the variables that contain the crucial information, and predicting what the values should be for these variables as the program runs. Because software applications and IDEs (integrated development environments) are evolving regularly, students gain experience approaching new technologies with confidence, curiosity, and flexibility. This department cultivates valuable competencies including finding and determining the reliability of resources, crafting accurate queries and ideas, and staying up to date on new software releases. These skills equip students to navigate rapidly changing technology with confidence.

3D Design Software: Introduction

Course Code: Csc130

Description: Students start using Tinkercad, 3D design software for beginners, and then progress to Fusion 360, a professional-level software, when they are ready to make more complicated shapes. They will progress from the basics of 3D design to more advanced techniques. In this course, they will design and print objects of their own choosing, but they will be encouraged to make one object that could help a staff member on campus (e.g., a visual aid for a classroom, a special container for an unusual tool, etc.).

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

3D Design Software: Short Introduction

Course Code: Csc120

Description: Students start using Tinkercad, 3D design software for beginners, and then progress to Fusion 360, a professional-level software, when they are ready to make more complicated shapes. They will learn the basics of 3D design and 3D print several objects of their choosing.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

3D Design Studio: Individual Selection

Course Code: Csc160

Description: Before the course starts, students must select their own 3D design project and receive approval from the teacher, who will gauge whether or not the project can be accomplished by the student in the time available. This will allow that each student can begin the project with adequate preparation on the first day of class and is likely to be able to complete the project.

Prerequisites: 3D Design Software: Introduction

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Advanced Computer Science

Course Code: Csc200

Description: This class covers the main ideas in topics such as classic Artificial Intelligence (AI), Machine Learning (ML), databases, quantum computing, and cryptosecurity. Small programming tasks will focus on implementing the main algorithms and processes within each topic. This class has a prerequisite of "Advanced Programming in Python."

Prerequisites: Introduction to Coding with Python

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Advanced Coding with Python

Course Code : Csc170

Description: In the introductory course, students learned the basics of Python and coded small segments. In this course, students will learn how to design a program from scratch. They will learn to separate interface from implementation and how to break a program into small interacting parts so that they can learn to code modules for each part. Along the way, they will learn how to calculate the efficiency of their code and look up algorithms of greater efficiency.

Prerequisites: Introduction to Coding with Python

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Entrepreneurial Product Development

Course Code: Csc185

Description: Following their interests, students will select a product area, find a gap in the market, and create an original product to fill that gap. At the end of the course, students will have created a prototype of their product. Along the way, students will learn aspects of intellectual property law, business law, market research, design, manufacturing, and marketing.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Introduction to Coding with Python

Course Code: Csc110

Description: This class is for students with no coding experience who are interested in standard programming languages used by professional programmers. Python is the most popular coding language among computing professionals and the most user-friendly of the standard languages. Students will learn to draw precise geometrical shapes, learning or applying their pre-existing knowledge of geometry. They will use their coding skills to recreate famous company logos, fractals, and other interesting shapes. They will also learn the general coding skills of manipulating integers, real numbers (floating point), and strings of characters (text). Time permitting, students will learn some basics of several data structures, such as lists and arrays.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

IT Internship

Course Code: Csc220

Description: Interning students learn while assisting the IT department in daily duties, such as maintaining the school's IT systems, and assisting teachers and students with their computer needs. Students should have good communication skills, exceptional computer knowledge, and a passion to pursue a career in the IT field. The head of the IT department will assist academic advisors in the process of selecting individuals for this class/internship. The course can be taken multiple times, and students who take this course may be asked to assist after the academic day on several occasions.

Prerequisites:

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 1

Stop-Action Animation

Course Code: Csc175

Description: Stop-Action Animation is an early form of animation in which a still picture of a physical scene is taken, small movements in the scene are made, and another still picture is taken. This process is repeated to

create the illusion of motion when all the still pictures are played in sequence. It is a very satisfying art form for students who may not otherwise have extensive experience with fine arts or crafts. In this course, students will make several short animations of varying lengths. Some will involve common objects (e.g., coins, shoes, etc.). Others will involve making a physical scene with craft items (e.g., construction paper, pipe cleaners, clay, or Legos) or 3D printing some of the needed items. The animation app is very easy to use, requiring only a few minutes of instruction.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Understanding How AI Works for Non-Programmers

Course Code: Csc235

Description: AI raises a lot of questions. Can a machine be more creative than a human? Can a machine become conscious? Before addressing these questions, a good strategy is to understand how AI really works. Then, people have a more realistic sense of what processes are going on behind the scenes. After learning how AI works, most people are less impressed with AI's abilities. To help us go behind the scenes, we will compare an artificial neural network with a human neural network. No programming experience is needed to understand the material of this course.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Understanding How AI Works for Programmers

Course Code: Csc230

Description: AI raises a lot of questions. Can a machine be more creative than a human? Can a machine become conscious? Before addressing these questions, a good strategy is to understand how AI really works. Then, people have a more realistic sense of what processes are going on behind the scenes. After learning how AI works, most people are less impressed with AI's abilities. To help us go behind the scenes, we will compare an artificial neural network with a human neural network. Because the students can program, we will also code up a simple neural network to experience AI in action.

Prerequisites: Intro to Coding with Python
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Unsolved Problems in Computer Science

Course Code : Csc225

Description: Thousands of problems in computer science have very inefficient solutions. Some of these problems are the following. How do you find the shortest route for a truck to deliver all of its packages? How do you load up a truck with boxes of various sizes so that they take up the least amount of space? These and thousands of other problems currently have no efficient solutions. There is room for people with creativity and puzzle-solving skills to come up with new ideas to solve these problems more efficiently. We will first learn

to calculate the run-time of algorithms to determine whether or not they are efficient or inefficient. Then, we will try to create efficient solutions for some of the problems. Along the way, we will program a few of these problems in Python to see whether their actual run-time matches our calculations.

Prerequisites: Algebra 1
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Video Game Creation

Course Code: Csc195

Description: Don't just play video games—start making your own. Using the Unreal Engine, a 3-D computer graphics game platform, students will learn how to make their own video games. The Unreal Engine was used to make Fortnite, the most popular game in the world in 2021. Students will be able to make professional-looking game worlds and learn how to code in Blueprint, a visual scripting system. Using Blueprint, students will learn all the programming constructs they would normally learn in any high-level programming language (e.g., Python, C++, Java). The main difference is that Blueprint presents the constructs in a visual manner.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

DIVERSITY AND SOCIAL JUSTICE

The Diversity and Social Justice department creates intentional opportunities for our students to consider themselves thoughtful and conscientious members of a global community. Through readings, reflection, and dialogue with peers and faculty, courses in this department support students as they develop as mindful, reflective citizens of a diverse world. Students engage in sustained inquiry into multiple aspects of their own identity, perspectives that may be new to them, and their personal impact on their communities. Exploration is focused on culture, society, and personal identity, and how those three layers of belonging intersect to create an ever-evolving person.

A Time to Tell

Course Code: Div120

Description: This course will provide you with a time to tell your story. Sharing our stories allows for stronger connections and grants us the opportunity to build empathy between individuals. We share an experience as members of the EHS community, but we also have our own identities and our own stories to tell. This course will provide you with an opportunity to tell your story and have it heard by others. One of the goals of this course is to create a compilation of stories (through a variety of mediums) that we can publish and share with others. If you are interested in telling your story, this course is the right fit for you.

Prerequisites: The Social Construction of Identity
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Current Events in Social Justice and Diversity/Inclusion Practices

Course Code: Div130

Description: The Current Events in Social Justice and Diversity/Inclusion Practices course explores current events as they relate to social justice movements and awareness. Student interest drives this course; students are encouraged to bring a willingness to look at various perspectives of current events as well as historical contexts.

Prerequisites: The Social Construction of Identity

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Music in Social Justice

Course Code: Div145

Description: Music in Social Justice is open to students interested in how the arts shape their world. Students will study how music can engage and advocate for those on the margins of society and inspire social justice movements. Tailored to the individual interest in social justice topics of the group, the course will analyze historical and current events as the class designs a musical movement that can empower a people, group or organization in addressing moral and social problems. Such topics may include racial inequality, women's rights, immigration reform, and institutional ableism. A diverse cultural, philosophical, and theological perspective will be taken by the instructor to help guide the ethical implications pertaining to this subject.

Prerequisites: The Social Construction of Identity

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Social Justice in Film

Course Code: Div140

Description: The Social Justice in Film course provides students with the opportunity to examine their social identities, giving consideration to elements such as race, religion, class, and sexuality. Using documentaries and contemporary films, students will explore how they are perceived by individuals and society. The class will analyze the varying privilege and disadvantage related to social group memberships and the historical roots of these systems. This course will allow students to gain a stronger understanding of themselves as individuals and of their peers.

Prerequisites: The Social Construction of Identity

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

The Social Construction of Identity

Course Code: Div105

Description: This first course in social justice will increase students' understanding and awareness of social identities and how these identities impact our lives and our perception of others. Students will look at some of the basic concepts of social justice including stereotypes, privilege, oppression and socialization. Each of the

subsequent courses in the department allow students the opportunity to look more deeply at a specific form of oppression and establish strategies for change both individually and collectively.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

ENGLISH

The English department provides students opportunities to engage with language in ways that respect and challenge them as learners; therefore, students engage in not only rhetoric and writing, and literary analysis, but also in ethical considerations. Rooted in our belief that language is an activity that involves ethical choices arising from the relationships of writer and audience, students address the questions of moral philosophers, such as what kind of person do I wish to be? How should I live my life? How should I treat others?

Our intention is that students develop, apply, and reflect upon the essential skills required to understand, explore, and express ideas through language. Through separate literature and writing courses students develop an ability to apply and refine their literal, critical, and affective comprehension strategies to a variety of literary forms. Students develop competence and motivation for continuing lifelong learning and adaptation to a changing environment.

With an understanding of the diverse educational backgrounds and experiences of our students, we are able to identify and address their academic needs. We are flexible and strive to synthesize a variety of educational philosophies and to formulate a holistic approach to instruction and curriculum development. As a faculty, we operate under the assumption that prescription and exclusive implementation of one belief system is detrimental to the education of our students; this conviction is based upon the principle that an effective teacher must be prepared to respond thoughtfully to evolving student needs

Absolute Cinema

Course Code: Eng950

Description: In this course, we will burden ourselves with the timeless search for meaning through the intertextual study of “classic” films and texts. Topics could include obsession, alienation, and ambition approached through a pairing of cinema with texts. Students analyze the connections between characters who are at odds with social environments, the ways that society amplifies feelings of loneliness, and how society punishes characters who don’t conform. By analyzing films within philosophical and narrative frameworks, students learn how to relate contemporary stories with so-called “classic” texts from different time periods, showing the different ways that both mediums can capture the human condition. Coursework will include analytic writing, historical research, and discussion.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

All About Love: A Writing Journey

Course Code: Eng720

Description: This course invites students to consider and write about the many meanings of love, including self-love, romantic love, moral love, agapic love, and mutual love. Students will also examine how "love" is shaped through language and what language has to do with love, passion, and desire. Projects will include research and analytical writing, keeping a commonplace book and delight log, and assembling collage poems and love blueprints.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Ancient Wisdom for Modern Life

Course Code: Eng645

Description: We've all felt at a loss at some point in our lives. How can I keep it together when things fall apart? Can people truly connect with one another? How do I want to be remembered? This course will invite students to wrestle with these questions and more alongside such classical thinkers as Plato, Aristotle, and Seneca from the ancient Mediterranean, and Mencius, Lao Tzu, and Confucius from China, who have offered some enduring answers. The course will also trace the cultural influence of those philosophers' ideas into the present day.

Prerequisites: None

Permission Required: No

Grades: 11,12

Credits: 6

Art of the Personal Essay

Course Code: Eng940

Description: In this course, students are invited to engage in the long tradition of creative nonfiction, bringing personal experiences to the page. Students will learn how to generate an idea, practice imagining an audience, develop writing process strategies, offer and receive feedback, and strive for writing with vulnerability. Through reading a variety of personal essays from writers like Joan Didion and David Sedaris, experimenting with craft through emulation, and drafting their own personal essays in turn, this course offers students a space to find and hone their unique voices.

Prerequisites: None

Permission Required: No

Grades: 11,12

Credits: 6

Banned Books

Course Code: Eng130

Description: The Banned Books course provides an opportunity for students to be exposed to works of literary merit that for various reasons are or have been kept off the shelves at other institutions of learning. In reading, discussing, and writing about the texts chosen for this class, students explore themes often encountered in post-

secondary literature courses while still in high school, so an open mind and a measure of maturity are expected on the part of interested students.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 6

Everyone's A Critic

Course Code: Eng935

Description: Mass engagement with media is always increasing, and the ability to absorb and critique the art we consume is crucial. This course may focus on films, a selection of novels, or other media and invites students to assume the role of critics through writing. Students will not only learn how to read a text with the intent of reviewing it but will also develop the skill of articulating their opinions and arguments on these texts through writing. Possible forms to explore include the op-ed, literary analysis, film/book reviewing as a craft, as well as forum-based commentary (e.g., Rotten Tomatoes, IMDb, Goodreads, etc.). The objective of this class is to discuss why and how we should view and analyze art of any kind beyond classifying it as “good” or “bad, as well as the power we have to influence culture when we act as a mindful audience. In this course, students will consider questions such as “Did The Hunger Games films miss the point the books were trying to make?” and “Did Greta Gerwig’s Barbie make strides for women, or did it fall flat?”

Prerequisites: None
Permission Required: No
Grades: 11,12
Credits: 6

Literature and the Law

Course Code: Eng217

Description: Literature and the Law explores interpretive practices in literary study through the examination of both fictional texts and legal documents. Students are encouraged to bring traditional literary skills to the reading of the law and to understand the close relationship between legal and literary studies. Students in Literature and the Law commit to participation in the Massachusetts Bar Association Mock Trial program and are expected to participate fully in preparation for the Mock Trial competition in addition to meeting other class requirements.

Prerequisites: None
Permission Required: Yes
Grades: 8,9,10,11,12
Credits: 6

Reading & Writing: Critical Analysis

Course Code: Eng330

Description: This course provides the opportunity to develop writing skills required in post-secondary programs. Students complete essay responses to questions and readings, term and research papers, critiques, literary analyses, and persuasive essays with a focus on academic argument and proper citation. This course may be taken repeatedly; the coursework targets the development of sophisticated reading and writing skills on

an individual basis. This course is open to juniors and seniors. Enrolling in this class as a sophomore requires department chair approval.

Prerequisites: None

Permission Required: 11 and 12; 10th with permission of Dr. Kim

Grades: 8,9,10

Credits: 6

So That's Where That Came From

Course Code: Eng945

Description: This course is centered on intertextuality throughout literary history and traces how “originals” (foundational myths, texts, images, or ideas) reappear, mutate, or gain new meaning through adaptation, allusion, quotation, trope, or thematic inheritance. By following lines of descent, students engage with literature as an ever-evolving cultural conversation rather than a collection of isolated works, analyzing how meaning shifts as texts are reimagined for new audiences and historical contexts. Units may follow exile narratives from classical epics to contemporary immigration/refugee fiction, investigate recurring quotations and iconic scenes across time, explore enduring archetypes like “coming of age,” “forbidden knowledge,” or “man playing god,” or focus on direct adaptations in modern novels, plays, or films. Throughout the course, students build a broad bases for literary reference while developing skills in comparative analysis, close reading, and critical interpretation.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Video Game Analysis

Course Code: Eng920

Description: For decades, video games and the culture surrounding them have been deeply intertwined with the written word. With over two billion players worldwide, video games generate a vast range of literary content, from scripts and dialogue to interviews, reviews, and story adaptations. The language used to discuss games and their constituent parts offers an excellent springboard to a common lexicon upon which students can build in their future literary studies. This course offers a critical exploration of how video games contribute to and interact with other forms of media. Students analyze the narratives within games and their broader cultural impact, considering how gaming shapes and is shaped by the written word. Coursework consists of written assignments, discussions, and research projects.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

World Gone Wrong

Course Code: Eng930

Description: Literature often offers us a vehicle through which to examine the best and worst parts of human nature and society, often through the lens of conflict and change. In World Gone Wrong, students will read and

analyze a wide range of narratives surrounding conflicts in society or the steps taken by characters to settle these issues. Stories may focus on the impact on a broad section of society, such as a war story, or the implosion of one character's personal universe through individual challenges. From post-apocalyptic to historical texts, books covering the breakdown and rebuilding of social norms, characters going through earth-shattering events, or even stories set in alternate universes, there are many genres from which to choose texts. In addition to studying texts themselves, students in this class will also consider historical context where applicable, as well as how fictional texts might reflect contemporary society and our place within it.

Prerequisites: None

Permission Required: No

Grades: 11,12

Credits: 6

Writing for Publication

Course Code: Eng260

Description: Have you started a big story and need time to write with the guidance of an experienced editor? Do you have a completed manuscript that you'd like to get published, but you know it's rough and you need help with editing and proofreading? Would you like to be able to share your writing with your peers and a supportive teacher--and hear their constructive criticism? Do you have a great idea for an essay, or a group of poems, or a film script, but haven't started turning that idea into reality? If any of these apply to you, Writing for Publication may be your course. This course invites students to consider, as part of their writing aesthetics, ethics, electracy, materiality, and curation across literary forms.

Prerequisites: None

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 6

Writing the Research Paper (1 term)

Course Code: Eng255

Description: In this course, students are introduced to research methods, including both library and online database searches. Students prepare one or more research papers, using standard in-text citation, bibliographic, and other conventions. Rhetorical techniques and the elements of argument are also reviewed. This course can be taken multiple times.

Prerequisites: None

Permission Required: No

Grades: 8,9,10

Credits: 1

Writing the Research Paper (3 terms)

Course Code: Eng255

Description: In this course, students are introduced to research methods, including both library and online database searches. Students prepare one or more research papers, using standard in-text citation, bibliographic,

and other conventions. Rhetorical techniques and the elements of argument are also reviewed. This course can be taken multiple times.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

HISTORY

History is the ambitious endeavor to understand and explain how we arrived at the present state of affairs. It entails the analysis and interpretation of evidence sources and the synthesis of varying accounts and perspectives into an explanatory narrative that sheds light on causative influences and far-ranging effects. It can provide lessons for the present, bolster our understanding of ourselves, and promote an appreciation of different perspectives.

Our courses promote active, inquiry-driven investigation of history, thus developing widely applicable skills while cultivating a deeper understanding of human events and of today's world. Students gather, interpret, and assess evidence from various sources, which they use to craft cogent narratives to understand and explain such key concepts as change, continuity, cause, varying perspectives, and significance. Students develop a better understanding of themselves and the world today by engaging with history and reflecting on the past. This endeavor begins with a familiarity with historical events and current interpretations of those events. It develops through practice and instruction into an ability to produce new historical knowledge by analyzing information from different accounts and synthesizing a valid and coherent interpretation, while reflecting on perspective, bias, and interpretative methodologies.

Our goal is to seek creative means of teaching without the constraint of relying on any single prescriptive approach. Direct instruction and immediate feedback are important elements in our teaching. Students are met where they are in their pursuit of historical knowledge and are guided to engage in scaffolded challenges just beyond their current ability or confidence.

A Geographic Investigation

Course Code: His415

Description: The methods for this course, focused on an individual research project, include using geography to interpret the past and the present and to plan for the future, as well as to assess changes in geographic contexts. Students will design and implement an investigation of the impact of geographic factors on a specific locale (e.g., the impact on the population of a town when a particular industry closes; the impact on a water catchment area if a piece of land is converted from woodlands to pasture; the changing face of a club with greater ethnic diversity).

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

A New Nation: Independence to Reconstruction

Course Code : His460

Description: A New Nation, one in the group of U.S. history courses, takes students on a journey from the founding of the United States through the Civil War, covering the period from 1776 to 1865. The course covers the important early governmental developments and precedents set in the first few presidential administrations, as well as the major challenges faced by the fledgling nation. It then focuses on the growing divide between the northern and southern states alongside the growth and expansion of the country. It culminates with a study of the causes, events, and outcomes of the Civil War.

Prerequisites: None

Permission Required: No

Grades: 9,10,11,12

Credits: 3

Ethnography

Course Code: His770

Description: How do we understand the values and dynamics that define a particular social group? If you're an anthropologist, you do ethnography! Ethnography is a research method in which you immerse yourself in the environment, culture, and practices of those you study. In this course, students will become familiar with anthropological research methods and theory by reading classical and contemporary anthropological works. In particular, students will be attentive to methodologies that underpin ethnographic research, including participant observation, fieldnote collection, and interviewing. Alongside a review of the field, students will undertake ethnographic research on social settings they encounter in their day-to-day lives.

Prerequisites: None

Permission Required: No

Grades: 9,10,11,12

Credits: 3

Founding of a Nation: The Earliest Americans to the Revolution

Course Code: His455

Description: Founding of a Nation, one in the chronologically themed group of U.S. history courses, focuses on the colonial era. It is a survey of the development of the communities that would one day form the United States. It begins broadly with the first peopling of the Americas, progresses through European colonization of the Western Hemisphere, and then narrows to a focus on the thirteen British colonies in North America. It culminates with the American Revolution and the founding of the United States as an independent nation. The course familiarizes students with key events, like the signing of the Mayflower Compact, the French and Indian War, and the Boston Tea Party. The course introduces such seminal concepts as limited government, natural rights, and representative government.

Prerequisites: None

Permission Required: No

Grades: 9,10,11,12

Credits: 3

Growth of a Nation: Age of Industry to the Cold War

Course Code : His465

Description: A course in the chronologically themed group of U.S. history courses, Growth of a Nation explores the period from Reconstruction through World War II. A major topic is the transformation of the United States into a world power with far-flung political, economic, and territorial interests. Domestically, the Progressive era features prominently in the course. The two world wars, as well as the Roaring Twenties and the Great Depression, are also covered. Rapid growth and transformation are overarching themes.

Prerequisites: None

Permission Required: No

Grades: 9,10,11,12

Credits: 3

Government

Course Code: His110

Description: The Government course introduces students to the foundations of American government, beginning with the historical origins of democratic principles and the philosophical ideas that shaped the U.S. Constitution. Students analyze key founding documents, explore the structure and functions of government, and examine the evolving balance of power between national and state governments through the lens of Federalism and state law.

Prerequisites: None

Permission Required: No

Grades: 12

Credits: 8

Learning History through Fiction

Course Code: His555

Description: Some approaches to teaching history can be dull lists of names, dates, and events are challenging to connect with and understand. However, learning of past events through historical fiction can provide immersive learning about other cultures and times as well as encourage empathy for those who lived through the event. A well-crafted historical novel can provide students with excitement, adventure, along with a good story. When written in a way that incorporates historical accuracy in detail and theme, it can provide the necessary elements of a meaningful historical exploration. These books draw students' attention, promote greater interest in and understanding of the story, and greater knowledge of historical events. The aim of this class is to tie works of historical fiction to primary source documents from an event or time period in order to study the relationship between the two text types and to evaluate the contribution that historical fiction can make to the understanding of an event or an era in history.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Moving Toward the Future: The Cold War and Beyond

Course Code: His495

Description: Moving Toward the Future, a course in the chronologically themed group of U.S. history courses, examines the period from the end of World War II through the early 2000s. The Cold War dominates the foreign affairs realm of this historic period, with the wars in Korea and Vietnam, the Cuban Missile Crisis, and the Arms Race as major topics of study. Domestically, the Civil Rights Movement, economics, and national politics feature prominently. This course ties the historical events of recent decades to the development of current conditions.

Prerequisites: None

Permission Required: No

Grades: 9,10,11,12

Credits: 3

Revolutions

Course Code: His375

Description: What would it take for a population to rise up against its government, overthrow its leaders, and establish a new order? This course is designed for students to analyze and evaluate uprisings that have turned into revolutions that changed the world. The American, French, Chinese, Russian, and other Revolutions will be studied with the aim of finding commonalities amongst their causes and their leaders. The analytical nature of this course makes it more suited for older students with well-developed reasoning skills.

Prerequisites: None

Permission Required: No

Grades: 10,11,12

Credits: 6

Social Studies

Course Code: His360

Description: This is a general introduction to the social studies: history, geography, cultural diversity, and civics. Students will study the world in which we live, reading maps, distinguishing primary and secondary sources, interpreting human customs, and developing an understanding of the laws under which we live.

Prerequisites: None

Permission Required: No

Grades: 8

Credits: 3

The Most Evil Men and Women in History

Course Code: His305

Description: Explore the lives and minds of the villains who have tainted the pages of history with their crimes. This course begins with an examination of the question of evil in human history: how can it be defined, discerned, and described? The class develops a set of criteria by which to judge notorious historical figures and then embarks on an exploration of the lives and deeds of some history's most notorious figures, with an eye

toward analyzing whether they deserve to be labelled as among the most evil men or women in history. Various elements of world history are covered during the course of this study. Thinking critically about evidence, bias, and cultural perspective is cultivated and developed.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

IB DIPLOMA PROGRAMME

The IB Diploma Programme (DP) is a rigorous, academically challenging and balanced programme of education designed to prepare students aged 16 to 19 for success at university and life beyond. The DP aims to encourage students to be knowledgeable, inquiring, caring and compassionate, and to develop intercultural understanding, open-mindedness, and the attitudes necessary to respect and evaluate a range of viewpoints. Approaches to teaching and learning (ATL) are deliberate strategies, skills and attitudes that permeate the teaching and learning environment. In the DP, students develop skills from five of the International Baccalaureate Programme's ATL categories: thinking, research, social, self-management, and communication. This approach aligns closely with Eagle Hill's inquiry and problem-solving focus.

Biology HL I

Course Code: IB200

Description: Biology is the study of life. The vast diversity of species makes biology both an endless source of fascination and a considerable challenge. Biologists attempt to understand the living world at all levels from the micro to the macro using many different approaches and techniques. Biology is still a young science and great progress is expected in the 21st century. This progress is important at a time of growing pressure on the human population and the environment. By studying biology in the DP students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the sciences. Teachers provide students with opportunities to design investigations, collect data, develop manipulative skills, analyze results, collaborate with peers and evaluate and communicate their findings. Biology HL is a two-year course. This is part one.

Prerequisites: Biology

Permission Required: Yes

Grades: 11

Credits: 9

Biology HL II

Course Code: IB240

Description: Biology is the study of life. The vast diversity of species makes biology both an endless source of fascination and a considerable challenge. Biologists attempt to understand the living world at all levels from the micro to the macro using many different approaches and techniques. Biology is still a young science and great progress is expected in the 21st century. This progress is important at a time of growing pressure on the human population and the environment. By studying biology in the DP students should become aware of how scientists

work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the sciences. Teachers provide students with opportunities to design investigations, collect data, develop manipulative skills, analyze results, collaborate with peers and evaluate and communicate their findings. Biology HL is a two year course. This is part two.

Prerequisites: Biology HL I

Permission Required: Yes

Grades: 12

Credits: 9

History HL I

Course Code: IB130

Description: The DP history course is a world history course based on a comparative and multi-perspective approach to history. It involves the study of a variety of types of history, including political, economic, social, and cultural, and provides a balance of structure and flexibility. The course emphasizes the importance of encouraging students to think historically and to develop historical skills as well as to gain factual knowledge. It places a premium on developing critical thinking skills and fostering an understanding of multiple interpretations of history. In this way, the course involves a challenging and demanding critical exploration of the past. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, transfer, and use of primary sources. Six key concepts have particular prominence throughout the DP history course: change, continuity, causation, consequence, significance, and perspectives. History HL is a two-year course. This is part one.

Prerequisites: None

Permission Required: Yes

Grades: 11

Credits: 9

History HL II

Course Code: IB260

Description: The DP history course is a world history course based on a comparative and multi-perspective approach to history. It involves the study of a variety of types of history, including political, economic, social, and cultural, and provides a balance of structure and flexibility. The course emphasizes the importance of encouraging students to think historically and to develop historical skills as well as to gain factual knowledge. It places a premium on developing critical thinking skills and fostering an understanding of multiple interpretations of history. In this way, the course involves a challenging and demanding critical exploration of the past. Teachers explicitly teach thinking and research skills such as comprehension, text analysis, transfer, and use of primary sources. Six key concepts have particular prominence throughout the DP history course: change, continuity, causation, consequence, significance, and perspectives. History HL is a two-year course. This is part two.

Prerequisites: History HL I

Permission Required: Yes

Grades: 12

Credits: 9

Language and Literature HL I

Course Code: IB100

Description: The Language A: Language and Literature course aims to develop skills of textual analysis and the understanding that texts, both literary and non-literary, can relate to culturally determined reading practices. The course also encourages students to question the meaning generated by language and texts. An understanding of the ways in which formal elements are used to create meaning in a text is combined with an exploration of how that meaning is affected by culturally defined reading practices and by the circumstances of production and reception. The study of literature in translation from other cultures is especially important to IB DP students because it contributes to a global perspective. Texts are chosen from a variety of sources, genres, and media. Language and Literature HL is a two-year course. This is part one.

Prerequisites: None

Permission Required: Yes

Grades: 11

Credits: 9

Language and Literature HL II

Course Code: IB270

Description: The language A: language and literature course aims to develop skills of textual analysis and the understanding that texts, both literary and non-literary, can relate to culturally determined reading practices. The course also encourages students to question the meaning generated by language and texts. An understanding of the ways in which formal elements are used to create meaning in a text is combined with an exploration of how that meaning is affected by reading practices that are culturally defined and by the circumstances of production and reception. The study of literature in translation from other cultures is especially important to IB DP students because it contributes to a global perspective. Texts are chosen from a variety of sources, genres, and media. Language and Literature HL is a two-year course. This is part two.

Prerequisites: Language and Literature HL I

Permission Required: Yes

Grades: 12

Credits: 9

Mathematics: Analysis and Approaches SL I

Course Code: IB360

Description: Mathematics: Analysis and Approaches is designed for students who wish to study mathematics as a subject in its own right or to pursue their interests in areas related to mathematics. This course has a strong emphasis on calculus and on algebraic, graphical, and numerical approaches. Students will develop strong skills in mathematical thinking and become fluent in the construction of mathematical arguments. It will appeal to students who are interested in exploring real and abstract applications of mathematical concepts. They will enjoy problem solving and generalization. This course is suitable for students who may go on to further study in subjects that have a significant level of mathematical content (e.g., further study in mathematics itself, engineering, physical sciences, or economics).

Prerequisites: Algebra II

Permission Required: Yes

Grades: 11

Credits: 9

Mathematics: Analysis and Approaches SL II

Course Code: IB370

Description: Mathematics: Analysis and Approaches is designed for students who wish to study mathematics as a subject in its own right or to pursue their interests in areas related to mathematics. This course has a strong emphasis on calculus and on algebraic, graphical, and numerical approaches. Students will develop strong skills in mathematical thinking and become fluent in the construction of mathematical arguments. It will appeal to students who are interested in exploring real and abstract applications of mathematical concepts. They will enjoy problem solving and generalization. This course is suitable for students who may go on to further study in subjects that have a significant level of mathematical content (e.g., further study in mathematics itself, engineering, physical sciences, or economics).

Prerequisites: Mathematics: Analysis and Approaches I

Permission Required: Yes

Grades: 12

Credits: 9

Spanish ab initio I

Course Code: IB110

Description: The IB DP language ab initio course is designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the studied language is spoken. This process encourages the learner to go beyond the confines of the classroom, expanding an awareness of the world and fostering respect for cultural diversity. The language ab initio course develops students' linguistic abilities through the development of receptive, productive, and interactive skills by providing them opportunities to respond and interact appropriately in a defined range of everyday situations. Language ab initio is available at standard level only. Spanish ab initio is a two-year course. This is part one.

Prerequisites: None

Permission Required: Yes

Grades: 11

Credits: 9

Spanish ab initio II

Course Code: IB310

Description: The IB DP language ab initio course is designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. This process encourages the learner to go beyond the confines of the classroom, expanding an awareness of the world and fostering respect for cultural diversity. The language ab initio course develops students' linguistic abilities through the development of receptive, productive and interactive skills by providing them opportunities to respond and interact appropriately in a defined range of everyday situations. Language ab initio is available at standard level only. Spanish ab initio is a two year course. This is part two.

Prerequisites: Spanish ab initio I

Permission Required: Yes

Grades: 12

Credits: 9

Theory of Knowledge I

Course Code: IB170

Description: Theory of Knowledge (TOK) is a course about critical thinking and inquiry into the process of knowing, rather than about learning a specific body of knowledge. It plays a special role in the DP by providing an opportunity for students to reflect on the nature of knowledge through the lenses of scope, perspectives, methods and tools, and ethics. It is a core element undertaken by all full DP students, and schools are required to devote at least 100 hours of class time to the course. One aim of TOK is to encourage students to formulate answers to the question "How do you know?" in a variety of contexts and to see the value of that question. Students engage with knowledge questions as they learn about the ways people have developed to create, share, and apply knowledge. This allows students to develop an enduring appreciation of the richness and complexity of the human approach to knowledge. Theory of Knowledge is a two-year course. This is part one.

Prerequisites: None

Permission Required: Full IB Only

Grades: 11

Credits: 9

Theory of Knowledge II

Course Code: IB330

Description: Theory of Knowledge (TOK) is a course about critical thinking and inquiry into the process of knowing, rather than about learning a specific body of knowledge. It plays a special role in the DP by providing an opportunity for students to reflect on the nature of knowledge through the lenses of scope, perspectives, methods and tools, and ethics. It is a core element undertaken by all full DP students, and schools are required to devote at least 100 hours of class time to the course. One aim of TOK is to encourage students to formulate answers to the question "How do you know?" in a variety of contexts and to see the value of that question. Students engage with knowledge questions as they learn about the ways people have developed to create, share, and apply knowledge. This allows students to develop an enduring appreciation of the richness and complexity of the human approach to knowledge. Theory of Knowledge is a two-year course. This is part two.

Prerequisites: Theory of Knowledge I

Permission Required: Yes

Grades: 12

Credits: 9

Visual Arts SL I

Course Code: IB160

Description: The IB Diploma Programme Visual Arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to further study

of the visual arts in higher education, as well as for those who are seeking lifelong enrichment through the visual arts. Visual Arts SL is a two-year course. This is part one.

Prerequisites: None
Permission Required: Yes
Grades: 11
Credits: 9

Visual Arts SL II

Course Code: IB350

Description: The IB Diploma Programme Visual Arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to further study of the visual arts in higher education, as well as for those who are seeking lifelong enrichment through the visual arts. Visual Arts SL is a two-year course. This is part two.

Prerequisites: Visual Arts SL I
Permission Required: Yes
Grades: 12
Credits: 9

MATHEMATICS

The Mathematics department strives to create a challenging yet welcoming learning environment where students build confidence in their ability to think critically, reason quantitatively, and develop confidence as flexible and strategic problem solvers. Our goal is to cultivate students' capacity to investigate, to make sense of, and to construct meaningful understanding from their quantitative experiences.

Recognizing that students come from a wide range of backgrounds and comfort levels in mathematics, students are individually evaluated to determine the most appropriate placement based on their current ability, learning profile, and academic goals. Using individualized instruction from the teacher, group problem-solving, class textbooks and workbooks, utilization of a graphing display calculator, and computer programs, we model thinking processes and provide opportunities for targeted practice and reflection. The mathematics department delivers a curriculum of college preparatory courses, including courses designed to strengthen foundational knowledge and courses that emphasize the practical application of mathematics in everyday life.

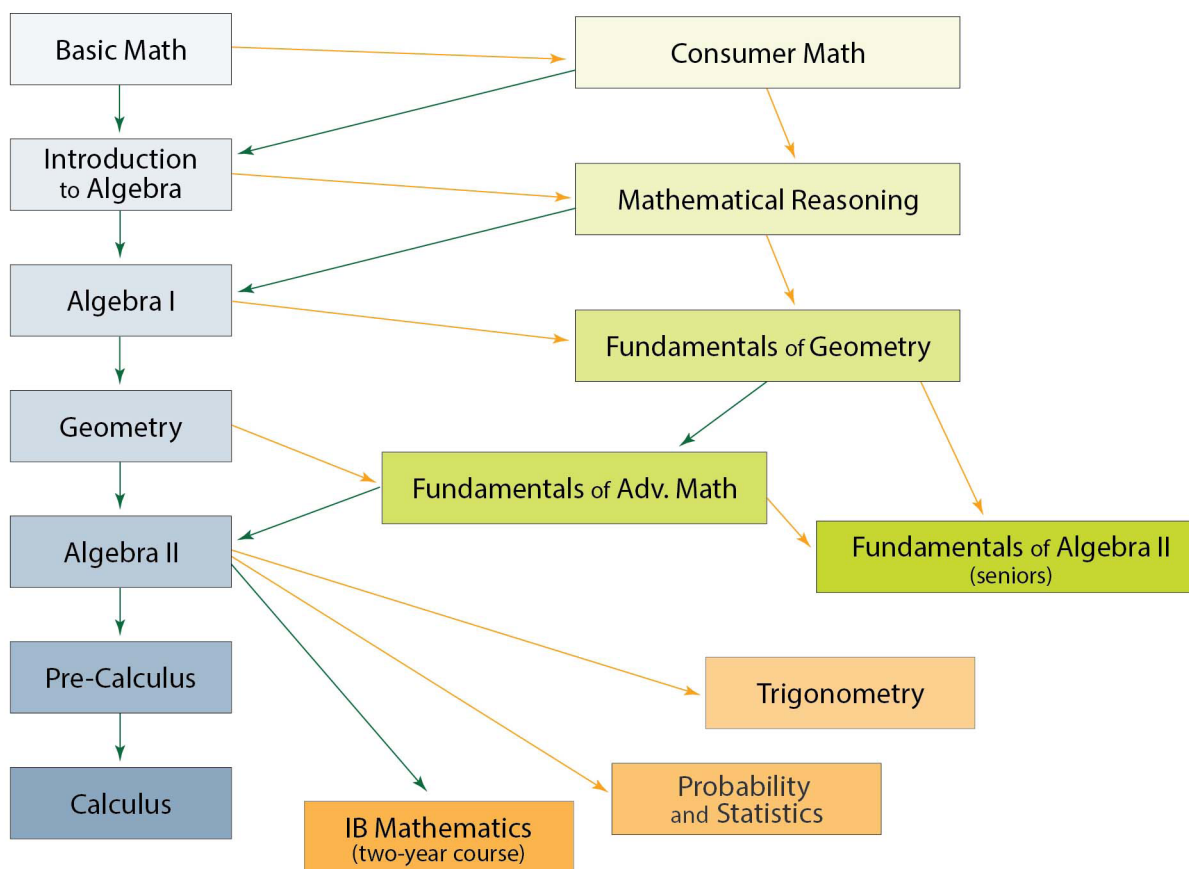
With a focus on understanding concepts and their application, students learn to use flexible sets of strategies to solve problems, both mathematical and otherwise. In addition to traditional teacher-led discussions, small workgroups, individual exploration, peer instruction, and whole-group discussions are utilized in the classroom—approaches that prioritize conceptual understanding over exclusive reliance on rote memorization and reproduction.

Mathematics Course Sequences

The most common sequence of courses is identified in the lefthand column of the flowchart below, following the green arrows. Along the way, if a student is not ready for the next course in that sequence, she/he/they will instead take the course to the right (orange arrows), which is designed to reinforce the skills necessary for a return to the sequence in the lefthand column. If, after completing a course in the righthand column, a student needs additional reinforcement, she/he/they may continue progressing along the sequence in the righthand column (orange arrows).

Students who demonstrate strong mathematical skills and complete Algebra II by the end of their sophomore year may choose to enroll in the two-year IB Mathematics course.

Please note: returning students will have their math class preselected by their current mathematics teacher and the department chair during course planning in the spring. Please reach out to the department chair for any questions about course planning.



Algebra I

Course Code: Mat100

Description: The Algebra I course covers all aspects of understanding variables and how they are utilized to solve problems in many different life activities. Among the topics covered are operations with monomials and polynomials, solving equations, solving inequalities, factoring, graphing linear equations, and solving systems of equations. Word problems are presented with each concept. Students engage in design thinking, a human-centered process for creative problem solving. They are encouraged to ask questions, learn and practice a variety of strategies to solve equations, and apply those strategies to everyday human experiences that they identify. Students in Algebra I engage in active learning, offering and receiving feedback, tinkering, and academic risk-taking. Students in Algebra I will make basic connections among mathematics and other disciplines.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Algebra II

Course Code: Mat105

Description: Advanced concepts utilizing both algebra and geometry skills are taught in Algebra II. Systems of equations, functions and graphs, rational expressions, complex numbers, the quadratic formula, polynomial functions, and basic trigonometry are covered. The graphing calculator and its functions are introduced in this course. Students learn to solve complex word problems relating to science and business, with the assistance of the graphing calculator. Students engage in design thinking, a human-centered process for creative problem solving. They are encouraged to ask questions, learn and practice a variety of strategies to solve equations, and apply those strategies to everyday human experiences that they identify. Students in Algebra II engage in active learning, offering and receiving feedback, tinkering, and academic risk-taking. Students in Algebra II will continue to make connections among mathematics and other disciplines.

Prerequisites: Algebra 1, Geometry

Permission Required: No

Grades: 10,11,12

Credits: 8

Basic Math

Course Code: Mat110

Description: The Basic Math course develops skills in fractions, decimals, measurement, and factoring (greatest common factor, least common multiple, prime numbers), as well as the terminology of factoring. Skills in the conversion of measurements, both standard and metric, are also developed. Students in Basic Math engage in design thinking, a human-centered process for creative problem solving. They are encouraged to ask questions, learn and practice a variety of strategies to solve equations, and apply those strategies to everyday human experiences that they identify. Students in Basic Math engage in active learning, offering and receiving feedback,

tinkering, and academic risk-taking. Students will engage in conversations and collaborative activities that cultivate an interest in and appreciation for mathematics.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Basics of the Stock Market

Course Code: Mat225

Description: In Basics of the Stock Market, students learn about buying and selling stocks and using different stock market strategies. At the beginning of the course, students develop a portfolio of investments that they follow for the remaining weeks of the course and attend regular follow-up visits with the instructor until the school year is completed.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Calculus

Course Code: Mat115

Description: The Calculus course focuses primarily on differential calculus. Topics covered are limits, continuity, derivatives, rules of derivatives, and their applications. Some integral calculus will be covered if time permits. Word problems are presented relating to such fields as physics, geology, architecture, chemistry, and business. Students utilize a graphing calculator in this class.

Prerequisites: Pre-Calculus

Permission Required: No

Grades: 11,12

Credits: 8

Chess

Course Code: Mat335

Description: In this course, students learn the basics of chess. Chess is one of the oldest and most popular board games. Two opponents play on a checkered board with specially designed pieces of contrasting colors, commonly white and black. The objective of the game is to capture the opponent's king. Chess teaches better concentration, boosts self-confidence, stimulates creativity, and enhances patience and resilience. Each player has the potential to create an analytic and abstract strategy to capture the opponents king piece.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Consumer Math

Course Code: Mat120

Description: In the Consumer Math course, students learn how to apply the basic mathematics skills needed to contribute personally and professionally in today's world. Topics such as money, balancing a checkbook, finding discounts, estimation, percents, shopping, and budgeting are covered. Students also discover how to measure distance, liquid, mass, and calculate metric conversions. Students in Consumer Math engage in design thinking, a human-centered process for creative problem solving. They are encouraged to ask questions, learn and practice a variety of strategies to solve equations, and apply those strategies to everyday human experiences that they identify. Students in Consumer Math engage in active learning, offering and receiving feedback, tinkering, and even academic risk-taking. Students will engage in conversations and collaborative activities that cultivate an interest in and appreciation for mathematics. Calculators and many different measuring tools are employed in this course.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Fundamentals of Advanced Mathematics

Course Code: Mat125

Description: The primary objective of the Fundamentals of Advanced Mathematics course is to assist students in mastering algebra and geometry topics and then applying these concepts to real-life situations. Some of the topics covered include: solving linear and quadratic equations, graphing linear and quadratic functions, using the Pythagorean Theorem, learning about basic trigonometric functions, and solving right triangles. Fundamentals of Advanced Mathematics is recommended for students who have completed Algebra I and Geometry and need reinforcement of basic algebra and geometry skills before taking Algebra II.

Prerequisites: Fund of Geometry

Permission Required: No

Grades: 10,11,12

Credits: 8

Fundamentals of Algebra II

Course Code: Mat345

Description: This course is designed for students who have already taken Algebra I and Geometry and provides the opportunity to review the most important skills in these areas. Topics covered include: solving equations and inequalities, graphing linear equations, using algebraic reasoning to solve for various angle measures, parallel and perpendicular lines, triangles, and polynomials. Once students have fully developed skills in these areas, they work on solving word problems related to these topics. Standardized test sample problems, such as those found on the ACT, will be utilized for this purpose.

Prerequisites: Fund. of Geometry

Permission Required: No

Grades: 10,11,12

Credits: 8

Fundamentals of Geometry

Course Code: Mat130

Description: Fundamentals of Geometry emphasizes the practical application of deductive reasoning in conjunction with basic geometry theorems to solve problems, including parallel and perpendicular lines, angles, circles, polygons, and triangles.

Prerequisites: Mathematica Reasoning

Permission Required: No

Grades: 9,10,11,12

Credits: 8

Geometry

Course Code: Mat135

Description: The Geometry class emphasizes the understanding and interrelationships of geometry concepts, vocabulary, postulates, and theorems. These are presented in a multimodal manner, allowing the students to learn through visual, auditory, kinesthetic, and hands-on activities. Topics covered include, but are not limited to, lines, line segments, rays, angles, line segment and angle properties, polygons, perimeter, circumference, area, and planes. In addition, students develop their diagram-drawing skills, logical thinking abilities, and organizational skills.

Prerequisites: Algebra 1

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Introduction to Algebra

Course Code: Mat145

Description: The concepts of ratio, proportion, and percent are covered in the Introduction to Algebra course. Word problems that help explain the use of proportions and percents are discussed. Integers are also introduced in this class as the students learn to add, subtract, multiply, and divide positive and negative numbers. The order of operations is an integral part of the course, as are understanding exponents and working with variables.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Mathematical Reasoning

Course Code: Mat285

Description: In this course, students will focus on developing or reinforcing their conceptual understanding of mathematics fundamentals. This will then allow students to build mathematical rationales for the procedures introduced throughout their mathematics courses. Students will learn to develop and understand number sense, make mathematical connections through ideas, and demonstrate applications. Students will recognize

proportional situations using ratios, fractions, decimals, unit rates, and percentages to make comparisons among quantities. Students will experience mathematical representations and build a repertoire of tools that expands their ability to think mathematically.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 8

Pre-Calculus

Course Code: Mat150

Description: The Pre-Calculus course includes the study of functions, circular functions, exponential and logarithmic functions, sequences, and series. The limit concept is introduced through infinite series.

Prerequisites: Algebra 2
Permission Required: No
Grades: 10,11,12
Credits: 8

Probability & Statistics

Course Code: Mat340

Description: This course covers topics in both descriptive and inferential statistics. Topics include permutations, combinations, axiomatic probability and statistical inference. The course consists of displaying, analyzing, and interpreting various graphs with given data. Students will calculate measures of central tendency with group frequency distributions and learn about outliers. Calculating measures of dispersion (range, quartiles, interquartile range, standard deviation, and variance) for both samples and population will be taught. Students will also learn how to utilize a graphing calculator to display and understand data.

Prerequisites: Algebra Algebra 2
Permission Required: No
Grades: 10,11,12
Credits: 8

Trigonometry

Course Code: Mat155

Description: In Trigonometry, the topics covered include trigonometric functions, graphing trigonometric functions, right triangle trigonometry, the law of sines, the law of cosines, trigonometric identities, and inverse trigonometric functions. With the use of a graphing calculator, students solve many intriguing word problems related to real-world circumstances from the construction of the pyramids of ancient Egypt to the building of bridges and skyscrapers.

Prerequisites: Algebra 2
Permission Required: No
Grades: 10,11,12
Credits: 8

PHYSICAL EDUCATION

Physical education classes engage in various cooperative physical activities and organized sports intended to nurture the physical body and the interpersonal skills of our students. We recognize that some students may have a background in athletics while others do not. The goal of each class is for students to explore and enjoy team and individual activities in a welcoming, safe, and active environment.

The physical education program emphasizes a curriculum that serves a diverse range of skill sets. The classes are meant to promote sportsmanship, cooperation, and respect. Our courses can be adapted to allow all students to engage in new activities, develop safe practices, practice strategic thinking and decision making, and utilize and hone social emotional skills.

Advanced Outdoor Adventure

Course Code: Pe105

Description: The Advanced Outdoor Adventure class is an advanced physical education class. Participants are required to have successfully completed Outdoor Adventure and have a background in group games and teamwork skills. This class focuses on developing leadership skills through a higher level of training for the participants. Each student is required to go through the belay certification program and will be trained in safety techniques (bear claws and pulley repair) and basic wilderness first aid. Students are taught how to develop and facilitate team-building and problem-solving games, as well as to lead high ropes activities. Because of the advanced nature of the class, students will be working on the high and low ropes courses in cooler weather as long as it is safe to do so.

Prerequisites: Outdoor Adventure

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Athletic Director Internship

Course Code: Pe155

Description: This internship course is open to any junior or senior who is involved in the athletic program. Interning students assist the athletic director in the management of the athletic website, the scheduling of contests for athletic teams, the setup of athletic events, and perform other related office tasks and game preparation responsibilities. Students should have good communication skills, general computer knowledge, and a willingness to work at events outside of the classroom. The athletic director will assist academic advisors in the process of selecting individuals for this class/internship. This internship class requires an additional commitment of approximately two hours per week before and after school.

Prerequisites: None

Permission Required: No

Grades: 10,11

Credits: 3

Badminton & Volleyball

Course Code: Pe140

Description: If you like to play games with a net, this is the class for you. Badminton and volleyball are the primary sports played, and variations on each game are presented. Volleyball using a beach ball and speedminton are two of the alternatives explored in this class. This is a great way to incorporate some fun into your day while maintaining good, lifelong physical fitness habits.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Basketball

Course Code: Pe120

Description: The basketball course is designed both as a team competition and as an opportunity to learn basic basketball skills through individual playing time. Some basic drills will be incorporated, and when class size allows, intramural play takes place.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Floor Hockey

Course Code: Pe115

Description: Floor Hockey is played inside the gymnasium with student teams of three or more players. This fast-paced game is for students who like to have fun and work together and are comfortable with some physical contact.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Golf Statistics

Course Code: Pe205

Description: The objective of this cross-curricular course is to provide students with real world application of mathematic principles. The primary way of learning those principles in this course is the use of golf statistics. Real world data will be gathered while students use a golf simulator. This course consists of both classroom learning and physical exercise.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Introductory Nutrition and Fitness

Course Code: Pe185

Description: The objective of this cross-curricular course is to educate students on the basic elements of good nutrition principles and eating habits while also promoting the benefits of physical activity through exercise to help individuals establish a healthy lifestyle. Over time, students will work with the instructor on creating an appropriate workout regimen for their goals. This course consists of both classroom learning and physical exercise.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Outdoor Adventure

Course Code: Pe100

Description: The Outdoor Adventure course has two main thematic components. The physical component involves use of the ropes course, initiative activities, and noncompetitive group games. The emotional component builds self-esteem, self-confidence, and ego strength. The ropes course and the group games are designed to increase agility, flexibility, balance, general strength, and coordination. In addition to individual benefits, the course is meant to develop mutual trust among class members. The level of involvement in activities, as well as participation on the ropes course is individualized so that each student may achieve his or her full potential. Students in Outdoor Adventure have opportunities to solve "wicked" problems through radical collaboration.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Physical Education

Course Code: Pe130

Description: The Physical Education curriculum is designed to improve the individual's spirit, body, and mind. Classes are structured so that each student's need to improve or to learn new skills for team and individual sports is met. Strategies and rules are taught to increase the enjoyment of participating in a physically active environment. A great deal of emphasis is placed on teamwork, sportsmanship, and fair game play--the elements necessary for a positive and rewarding athletic experience. Physical Education classes not only teach skills useful in a variety of sports, but also address the issues of time management, following directions, effort, and motivation. Students participate in a variety of activities that are both competitive and non-competitive. Fitness activities are also incorporated into the program. Group workouts, as well as individual workouts, are introduced and followed through during the course.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Physical Education Internship

Course Code: Pe160

Description: This internship is open to seniors who have an interest in the physical education field. The course will expose students to the daily routine of leadership, responsibility and flexibility. The student will assist in leading activities, prepare and gather game/fitness equipment, and will be an active role model for students in a physical education class. Individuals accepted for this internship will possess significant levels of knowledge regarding the traits of sociability, sportsmanship, self-discipline, and cooperation. The physical education department head will assist advisors in the selection of interns. Interested students should have fulfilled all of their PE requirements for graduation prior to taking this class.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Pickleball

Course Code: Pe125

Description: Do you like ping pong? If you do, this is the game for you. There's not a lot of running or extreme exertion in this activity, but it is a whole lot of fun. Pickleball is played with a paddle and a large ping pong ball, which is hit over a low-hanging net in the gymnasium. There are two players per side, and the rules are similar to ping pong. This is a great game that can be competitive or just for fun.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Sports Science

Course Code: Pe195

Description: The objective of this cross-curricular course is to demonstrate scientific principles through the use of games and sports. Classroom lecture and discussion will provide students with the background information needed to show how these scientific principles apply to different sports and games. This course consists of both classroom learning and physical exercise.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

READING

Reading classes are built on four foundational pillars: a multi-structured reading approach, assistive technology, fluency, and independent reading—all to support students with needs in decoding, fluency, or comprehension in cultivating a curiosity and confidence as readers.

We strive to enhance academic reading skills, instill confidence and a love for reading, and deepen understanding of genres. We offer a diverse range of courses tailored to meet the unique needs of students facing challenges in decoding, comprehension, spelling, fluency, vocabulary, and writing.

We recognize that no single instructional method fits all students. Instruction is intentionally responsive to individual learning profiles. Our teachers craft lessons using a variety of multisensory, structured phonics approaches. This includes renowned methods such as the Orton-Gillingham approach, the Wilson Reading System, and Structured Word Inquiry. Students with a primary focus on comprehension receive targeted instruction in both fiction and expository academic texts.

Close Reading Strategies for Fiction

Course Code: Rea280

Description: The Close Reading Strategies for Fiction course covers the multi-sensory, explicit, sequential learning of the art of understanding various fiction genres. Students learn how to analyze, synthesize, and use critical thinking skills to understand fictional texts with the assistance of graphic organizers, vocabulary exercises, and class discussions. This course is a great starting place for those with emerging reading comprehension skills and can open up the world of literature for them.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Reading Between the Lines

Course Code: Rea300

Description: Reading Between the Lines allows students to hone their skills at making inferences. To infer meaning from text, readers must combine information from the text with their own background knowledge to make a theory about what is possibly true. Students will practice the skill using a variety of media such as short film clips, photos, cartoons, song lyrics, and short reading passages. When they have gained proficiency, they will apply the skill to lengthier short stories.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Reading Development I

Course Code: Rea105

Description: The Reading Development I course teaches the multi-sensory development of decoding skills through recognition and understanding of linguistic structures (phonetic and meaning-based patterns in words of Anglo-Saxon and Latin origins, along with basic grammar), multi-syllabic word attack, vocabulary development, specific comprehension and encoding (spelling). This course is for students with relatively weak multi-syllable decoding and spelling abilities, perhaps causing dysfluent reading and weak comprehension.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Reading Fluency

Course Code: Rea120

Description: The Reading Fluency course covers the development of reading fluency through intensive oral and silent reading practice linked with comprehension, multi-syllabic word recognition mastery, and vocabulary development. This course is for students whose reading speed and accuracy are below expectations and for whom that limitation impairs memory and reading comprehension. This course may be taken more than once.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Reading Tutorial

Course Code: Rea100

Description: The Reading Tutorial course provides a multi-sensory, alphabetic-phonetic, and sequential approach to basic word attack, reading, spelling, and writing skills, explicitly teaching the association between written symbols and their spoken sounds and the correspondence between sequences of sounds and sequences of letters. Students read words in isolation, participate in sound dictation, spell targeted words and sentences, read orally from appropriate skill level trade books, and write short pieces toward mastery of these skills. This course is designed for students with significant challenges in basic decoding skills. Students appropriate for Reading Tutorial are in need of individualized, explicit, intense instruction in order to make effective progress. Students will practice reading with curiosity, resilience, and empathy. This course may be taken only with the recommendation of the reading department and may be taken more than once.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Selected Short Stories

Course Code: Rea285

Description: The Selected Short Stories course provides an opportunity for students served by the reading

department to continue sharpening their vocabulary, fluency, and comprehension skills. Through carefully selected literature, students will continue to foster a love of reading while exploring short stories. This course can be used as a precursor for literature courses in the English department.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

The Novella

Course Code: Rea260

Description: The Novella course provides an opportunity for students served by the reading department to enjoy the classics while sharpening their vocabulary, fluency, and comprehension skills. Through the use of carefully selected literature, students will continue to foster a love of reading while exploring classic novellas. Students will practice reading with curiosity, resilience, and empathy. This course can be used as a precursor for literature courses in the English department.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Understanding Informational Texts

Course Code: Rea305

Description: The Understanding Informational Text course explicitly teaches methods in a multi-sensory, sequential way to assist students in understanding and applying information from expository text about various topics. Students will learn about different organizational structures for informational text and the unique features that are encountered when reading a nonfiction passage, text, or article. Students will be able to navigate information and have a better understanding of the content. Students will practice reading with curiosity, resilience, and empathy. This course is for students who need support in collecting, synthesizing, and studying information from nonfiction academic texts.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Word Attack Skills

Course Code: Rea270

Description: The Word Attack Skills course teaches the multi-sensory development of decoding skills through recognition and understanding of linguistic structures (phonetic and semantic patterns in words of Anglo-Saxon and Latin origins), multi-syllabic word attack, vocabulary development, specific comprehension, and encoding (spelling). This course is for students with emerging multi-syllable decoding and spelling abilities, perhaps causing dysfluent reading and weak comprehension.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 6

SCIENCE

The Science department is designed to promote an understanding of how and why phenomena of life, matter, and energy occur. Our goal is to provide the opportunity for students to develop a framework of scientific concepts that can be applied to future endeavors, a working vocabulary to describe scientific ideas, proficiency in interpreting and manipulating scientific data, ideas, and equipment, and practice in the applications of skills in a variety of problem-solving techniques and scientific methods. We strive to explore student development of an integrated or holistic relationship within the sciences, including other fields of study, while investigating global applications.

Utilizing our specially equipped laboratories and classrooms, students do not just explore science but also collaborate to investigate shared scientific questions to achieve a shared objective. Students access a full range of equipment to support laboratory exercises in each of the science disciplines; physics, chemistry, biology, earth sciences, and health, and all labs are equipped for microscale chemistry techniques, computer/probe interfaces for physical data collection, microbiology, and animal studies. To support real-world applications, we also have a robotics room, nature trails for environmental studies, an area dedicated to botany work, and a zoology room that houses live animals, including a large saltwater fish tank with a variety of tropical species.

Students practice investigating science content with a focus on how to extract information from texts and reference sources, as well as from their own acquired data and hypotheses. We prioritize hands-on investigation whenever possible because we believe in giving the opportunity for real laboratory work and activities is necessary for synthesization of concepts. We also make use of simulations as supplemental learning or for situations where in-person lab work is impractical. When focusing on reporting, we train students in the use of software for data manipulation. Texts (including online or digital texts), various media, lab equipment, and other materials are carefully selected with each student in mind to maximize concept attainment.

Anatomy and Physiology

Course Code: Sci100

Description: Anatomy and Physiology introduces students to the structure and function of the human body. Topics include anatomical terminology, detailed exploration of all major body systems, and common diseases affecting humans. Students will learn how the systems of the body work together by completing a series of laboratory exercises and through class demonstrations.

Prerequisites: Biology

Permission Required: No

Grades: 11,12

Credits: 8

Beekeeping

Course Code: Sci450

Description: Beekeeping takes beginner beekeepers, with no experience, and teaches them the history, the uses, and the "how-to" of being a beekeeper. Students will learn about popular hive designs, construct their own beehives and frames, install live honey bee colonies, split hives, and learn to care for hives during the warmer months. Students will learn how to spot hive diseases, how to medically treat hives, as well as how to collect and

extract honey and wax from hives. Students will learn how to prepare hives for the winter months, as well as bottle and sell honey to the local community.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Biology

Course Code: Sci110

Description: Biology introduces students to the fundamental characteristics of living organisms and the biotic and abiotic systems in which they exist. Major topics of study include, but are not necessarily limited to the “big ideas” of biology: the importance of homeostasis, both in individual organisms and the ecosystems in which they exist; the cellular basis of life, which includes cell classification, structure, function, metabolism, and role in creating larger structures in multicellular organisms; the role of genetics in determining traits of living things, which includes both Mendelian and non-Mendelian patterns of inheritance, sex-linked traits, and the structure and function of DNA; the evolutionary history of life on Earth; evidence of evolution, both as it existed in the past and is seen in the present day is examined, as are the mechanisms by which speciation occurs; systems of classification, which includes classification of cells (prokaryotic and eukaryotic), as well as classification of organisms into domains, kingdoms, and so on; and the interconnected nature of all living things, introduced through the study of the interactions among living things in the environment. Lab work is an integral part of student exploration of all topics in this course.

Prerequisites: None

Permission Required: No

Grades: 9,10,11,12

Credits: 8

Chemistry

Course Code: Sci120

Description: Chemistry continues building the core critical, analytical skills required to succeed in science, including experimental procedures used to obtain data, as well as analytical tools designed to facilitate an understanding of the mechanisms by which chemical reactions progress. Students are introduced to the core ideas of chemistry, including: the basis of atomic theory; balancing chemical equations; the Law of Conservation of Mass; stoichiometry and the concept of the mole; and the different types of chemical bonding (and the properties of the resulting compounds). Students are also introduced to different modes of data presentation and information organization, including diagramming to represent important information in context; effective note-taking and table-graphic organizers; and mathematical modeling of observed phenomena and data, including the generation and derivation of complex equations in order to make predictions about future behaviors and experimental outcomes. The chemical nature of acids and bases, including an appreciation for reversible reactions, mass action, and equilibria, is also presented. The chemical nature of salts is explored in the context of this acid-base chemistry. Electrochemistry, including a discussion of the concept of electronegativity and its associated pattern in the periodic table, is covered, as well as the concept of anode and cathode. A discussion of reduction-oxidation chemistry and its applications to constructing batteries is included. An introduction to organic chemistry, including the conventions for naming organic molecules, the chemistry of related functional

groups, isolation procedures for purifying organic compounds, and an introduction to the chemical mechanisms involved in organic reactions (including substitution and elimination reactions) completes the course of study.

Prerequisites: Algebra I
Permission Required: No
Grades: 10,11,12
Credits: 8

Conceptual Chemistry

Course Code: Sci550

Description: This course is a full-year introduction to the major topics of chemistry, including atomic theory, balancing chemical equations, the Law of Conservation of Mass, stoichiometry, and the concept of the mole. Additional topics include chemical bonds, common chemical reactions, and the resulting properties of chemical compounds. Acids and bases, electrochemistry, and organic chemistry are also addressed in this course. Throughout the course, students will practice related lab skills, including the organization and interpretation of data obtained in lab experiments. This course provides additional individualized support to students as needed to help them reach mastery of these concepts.

Prerequisites: None
Permission Required: No
Grades: 10,11,12
Credits: 8

Conceptual Physics

Course Code: Sci125

Description: Conceptual Physics emphasizes the understanding and appreciation of the physical phenomena discovered in mechanics, forces, waves, sound, light, and electromagnetism without the mathematical emphasis of the standard course in physics.

Prerequisites: None
Permission Required: No
Grades: 10,11,12
Credits: 8

Health Science

Course Code: Sci525

Description: In this course, students explore multiple facets of human health, both the scientific underpinnings of why something does (or does not) contribute to overall health and the practical applications of this knowledge in one's own life are addressed. Major areas of health highlighted in this course include physical, social, emotional/mental, and environmental health. Practical applications of health skills, including preventative care, first aid, and CPR, are also an integral component of this course. Topics are explored using a variety of modalities, including lab work wherever appropriate.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 8

Health: CPR & First Aid Certification

Course Code: Sci390

Description: Health: CPR/First Aid Certification combines lectures, demonstrations, and video with hands-on training and practice. Students in this course learn to recognize and respond to emergencies, including shock, cardiac and breathing emergencies (for adults, children, and infants), heat and cold emergencies, sudden illnesses, and poisonings. Additionally, participants learn first aid for everything from cuts and scrapes to muscle, bone, and joint injuries.

Prerequisites: None

Permission Required: No

Grades: 10,11,12

Credits: 1

History and Philosophy of Science

Course Code: Sci505

Description: In the History and Philosophy of Science course, students will explore the evolution of scientific thought from the early Greek natural philosophers, through the Renaissance and the emergence of modern scientific practices, to the present day. Consideration is given to how scientific methodologies and modern technologies allow us to study what we cannot see unaided. A major theme of class is the interaction of science and technology across time and how advancements in one area have often led to advancements in the other.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Introduction to Marine Biology

Course Code: Sci210

Description: Introduction to Marine Biology emphasizes the principles, concepts, and terminology involved in the study of marine organisms found in shallow-water tropical ocean environments. The anatomy and relationships of organisms from algae to fish are examined in detail. The course also examines the human impact on this part of the ocean. Students will gain the information and skills needed for a foundation in marine biology and for further study in the life sciences. This course includes laboratory exercises and demonstrations to assist students in understanding and investigating the processes of specific marine environments, and provides practical, manipulative, and problem-solving experiences.

Prerequisites: Biology

Permission Required: No

Grades: 10,11,12

Credits: 3

Maker Science (1 term)

Course Code: Sci445

Description: Maker Science focuses on how materials respond to the manufacturing process, explored through several projects of a student's choice. Materials used include non-ferrous metals (jewelry metals), glass, wood,

and stone. A large variety of processes can be applied to projects for making jewelry or other small decorative items. Journaling and research are used to enrich the experience.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Maker Science (3 terms)

Course Code: Sci445

Description: Maker Science focuses on how materials respond to the manufacturing process, explored through several projects of a student's choice. Materials used include non-ferrous metals (jewelry metals), glass, wood, and stone. A large variety of processes can be applied to projects for making jewelry or other small decorative items. Journaling and research are used to enrich the experience.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Physics

Course Code: Sci230

Description: Physics emphasizes the mathematical techniques and concepts needed to solve problems involving the physical phenomena discovered in mechanics, forces, waves, sound, light, and electromagnetism. Throughout the course, students will practice related lab skills, including the organization and interpretation of data obtained in lab experiments.

Prerequisites: Algebra II
Permission Required: No
Grades: 11,12
Credits: 8

Robotics

Course Code: Sci560

Description: The Robotics course uses a hands-on approach to the construction and programming of autonomous mobile robots. This course covers a variety of multidisciplinary topics necessary to understand the fundamentals of designing, building, and programming robots. The course uses mainly the VEX Robotics components and programming environment.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Technology Design Challenge (1 term)

Course Code: Sci235

Description: Technology Design Challenge incorporates scientific technology into the design and construction

of one or more projects. Students will learn and apply design thinking into their creative processes. They will learn to recognize the many uses of technology, and think through the constraints they may face as designers, helping them to develop creative confidence.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Technology Design Challenge (3 terms)

Course Code: Sci235

Description: Technology Design Challenge incorporates scientific technology into the design and construction of one or more projects. Students will learn and apply design thinking into their creative processes. They will learn to recognize the many uses of technology, and think through the constraints they may face as designers, helping them to develop creative confidence.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

SOCIAL EMOTIONAL WELLBEING

The Social Emotional Wellbeing department is dedicated to helping students refine and apply communication skills in their everyday lives. Through purposeful exploration, we support the ongoing development of meaningful relationships, healthy self-esteem, and effective communication. While we believe this is inherently tied to the confidence and social skills needed for the future, we recognize that students may have uneven development of these skills and may show varying challenges with interpreting social cues or expressing themselves clearly. Students at any proficiency benefit from being mindful about communication with explicit and non-judgmental exploration in these areas.

We believe that the classroom serves as the primary setting where skills are explored through modeling, rehearsal, personal reflection, and structured assignments. Instruction emphasizes not only how or when to use a skill, but also why it matters, reinforcing the student's understanding of its relevance. With differentiation, skills can be broken down into manageable parts and thoroughly explained, increasing motivation and confidence in applying them.

For those who wish to engage in work to help independently recognize or monitor communication cues, modeling and rehearsal can be especially important. Direct coaching helps build comfort with new behaviors, while structured homework assignments ask students to reflect on real-world applications and extend learning beyond the classroom.

As a faculty, we strive to help students navigate authentic opportunities to practice skills in real-world settings. By encouraging reflection and inviting feedback from peers and faculty, we create space for students to bring questions back to the classroom, ensuring a collaborative approach to each student's wellbeing.

Applied Psychology

Course Code: Pra260

Description: The Applied Psychology course reviews the history of perceptions of mental illness as well as past and current therapeutic techniques. Theories of counseling are discussed as well as psychopharmacology with an emphasis on mental and emotional well-being. Students will research individual and group therapy techniques, learning through lecture, activities, peer-reviewed readings, biographies, discussions, and documentaries.

Prerequisites: General Psych I

Permission Required: No

Grades: 11,12

Credits: 3

Child Development

Course Code: Pra155

Description: The Child Development course offers students interested in pursuing the study of psychology in college an opportunity to work with a college-level text. Students cover various topics such as the three developmental processes, the history of child development, theories of development, and the periods of development. The material is presented lecture-style, and projects are used to help the students develop their own understanding of how a child develops. Students are presented with a syllabus and are expected to manage their own deadlines.

Prerequisites: Biology

Permission Required: No

Grades: 11,12

Credits: 3

General Psychology I

Course Code: Pra250

Description: The General Psychology I course is designed to provide students with an understanding of the basic concepts and techniques of psychology as a behavioral science. Topics include a basic understanding of the scientific method and an overview of research methods, familiarity with writing techniques used in psychology, the endocrine system, the brain, consciousness, and operant and classical conditioning. The central focus of the course is on acquiring terminology and the application of concepts. The course uses small group activities, lectures, discussions, films, and other media.

Prerequisites: Biology

Permission Required: No

Grades: 11,12

Credits: 3

General Psychology II

Course Code: Pra255

Description: The General Psychology II course is designed as a continuation of the topics presented in General Psychology I for students who wish to pursue their psychology studies after high school. Topics include sensation and perception, memory, language and intelligence, motivation, social psychology, and personality. Through the study of human behavior and personality development, along with activities targeting critical

thinking skills, students will develop an increased knowledge and understanding of themselves and others. The course uses small group activities, lectures, discussions, films, and other media.

Prerequisites: General Psych I

Permission Required: No

Grades: 11,12

Credits: 3

Inspiring Leadership

Course Code: Pra235

Description: Everyone will be called on to be a leader at some point in life. This course investigates the key traits of leadership, including the characteristics of good leaders, how to improve leadership qualities, understanding and executing effective communication, and leading groups. Students interested in leadership opportunities on campus or who are presently in these roles are encouraged to take this course.

Prerequisites: None

Permission Required: No

Grades: 10,11,12

Credits: 1

Intrapersonal Pragmatics (1 term)

Course Code: Pra120

Description: The Intrapersonal Pragmatics course assists students as they become more responsible for their thoughts, emotions, and behavior. As in all pragmatics courses, the course strategy is to instruct students about the various topics targeted in the classroom through role-plays and discussion while encouraging the generalization of targeted skills outside of the classroom. Some course topics include harassment and teasing, the effects of self-talk, and three styles of behavior (passive, aggressive, and assertive). Students work toward cultivating empathy, resilience, and a growth mindset.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Intrapersonal Pragmatics (3 terms)

Course Code: Pra120

Description: The Intrapersonal Pragmatics course assists students as they become more responsible for their thoughts, emotions, and behavior. As in all pragmatics courses, the course strategy is to instruct students about the various topics targeted in the classroom through role-plays and discussion while encouraging the generalization of targeted skills outside of the classroom. Some course topics include harassment and teasing, the effects of self-talk, and three styles of behavior (passive, aggressive, and assertive). Students work toward cultivating empathy, resilience, and a growth mindset.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Mindfulness in Everyday Life

Course Code: Pra195

Description: Mindfulness can transform how you are in your body, in your mind, with your friends, at your work, and in the world. Learn how to breathe, how to walk, how to sit, how to eat a potato chip, how to listen to a bell, how to turn a doorknob, how to talk, and how to listen in an entirely new way. Learn how to be fully in the present moment--the only moment we ever have. The course will include exercises both inside and outside the classroom, readings, discussions, films on meditation, and, if time permits, a tour of the Insight Meditation Society in Barre, Massachusetts.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Positive Psychology

Course Code: Pra140

Description: Positive Psychology assists students in changing their mindsets through the scientific approach founded by psychologist Martin Seligman. Based on a theory of focusing on what's "right" with people rather than what's "wrong" with them, students explore the science behind the theory and practice strategies following Seligman's PERMA model. Topics are presented through lecture and discussion with a goal of student self-exploration. Appropriate use of the skills is demonstrated by the instructor and followed by rehearsal for students in class activities. Additional practice occurs in structured homework assignments with feedback.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Resilience and Well-Being (1 term)

Course Code: Pra265

Description: The Resilience and Well-Being course is designed to assist students in understanding stress and how it impacts their lives. Students are introduced to the protective factors that build resilience and combat stress, in addition to a deeper exploration of their daily well-being habits. A variety of strategies and stress-reducing techniques are also introduced, including meditation, box breathing, and journal writing. Other topics include identification of one's emotions, problem-solving, and expression. Skills are practiced in class and through structured homework assignments.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Resilience and Well-Being (3 terms)

Course Code: Pra265

Description: The Resilience and Well-Being course is designed to assist students in understanding stress and how it impacts their lives. Students are introduced to the protective factors that build resilience and combat

stress, in addition to a deeper exploration of their daily well-being habits. A variety of strategies and stress-reducing techniques are also introduced, including meditation, box breathing, and journal writing. Other topics include identification of one's emotions, problem-solving, and expression. Skills are practiced in class and through structured homework assignments.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Seminar on Learning

Course Code: Pra100

Description: The Seminar on Learning course provides students with a general overview of the history of neurodivergent learners with an emphasis on social and cultural factors. Students develop self-awareness pertaining to their own individual learning approaches, identify areas of academic strengths, and develop areas in need of further development. Students are exposed to a series of multi-modal instructional tools that introduce and explain the importance of self-advocacy skills in and outside of the classroom setting.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Social Emotional Communication (1 term)

Course Code: Pra240

Description: Social Emotional Communication supports students in developing foundational skills that are important in maintaining healthy relationships and interpersonal communication. Skills are presented in an organic, conversational style with each student in mind. Skills are demonstrated and modeled by the instructor and followed by student rehearsal in class activities. The goal of the practice sessions is to establish the skills while also developing each student's level of self-esteem, confidence, and social-emotional learning. Generalization is encouraged through positive reinforcement of the successful demonstration of skills. Topics include building and maintaining healthy relationships, respectful etiquette within relationships, and mindfully managing peer pressure.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Social Emotional Communication (3 terms)

Course Code: Pra240

Description: Social Emotional Communication supports students in developing foundational skills that are important in maintaining healthy relationships and interpersonal communication. Skills are presented in an organic, conversational style with each student in mind. Skills are demonstrated and modeled by the instructor and followed by student rehearsal in class activities. The goal of the practice sessions is to establish the skills while also developing each student's level of self-esteem, confidence, and social-emotional learning. Generalization is encouraged through positive reinforcement of the successful demonstration of skills. Topics

include building and maintaining healthy relationships, respectful etiquette within relationships, and mindfully managing peer pressure.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Sociology I

Course Code: Pra245

Description: The Sociology course is designed to provide students with a foundational background of how groups and social structures have a profound influence on the way we think, feel, and act. Students will explore the history of sociology, research approaches, culture, and society as a whole. Students will gain knowledge and understanding of the three main sociological perspectives and theories and apply these theories to present-day social problems. The course includes small group work, lectures, discussion, and scientific research.

Prerequisites: None

Permission Required: No

Grades: 10,11,12

Credits: 3

Sociology II

Course Code: Pra270

Description: The Sociology II course builds on the foundation of Sociology I, delving more deeply into the ways social stratification impacts various groups, including those defined by gender, age, race, and ethnicity. A central focus of the course is on social change and collective behavior, exploring both theoretical frameworks and contemporary social issues. Students will critically analyze topics related to the equitable distribution of resources and opportunities, fostering a nuanced understanding of societal dynamics. The course employs a variety of instructional methods, including engaging lectures, collaborative group work, in-depth discussions, and hands-on scientific research to encourage active participation and critical thinking.

Prerequisites: Sociology I

Permission Required: No

Grades: 10,11,12

Credits: 3

Verbal Communication

Course Code: Pra125

Description: The Verbal Communication course develops enhanced verbal skills and strategies for students who have basic pragmatic skills and the ability to understand the fundamentals of conversation. The goal of the course is to develop the students' ability to understand the messages that they give and receive, as well as to consider the perspective of their audience. Topics include interview skills, basic conversation skills, and public speaking.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

SPEECH & LANGUAGE THERAPY SERVICES

The Speech and Language department provides evidence-based services that support students in developing effective communication skills and greater awareness of their individual learning profiles. The goals of services are to improve communication and language skills and help students reflect and articulate their strengths, areas of need, and the strategies that support success across academic and social settings.

Speech-language services are delivered by a certified and licensed speech-language pathologist and are individualized based on student need. Services may include assessment, targeted intervention, and skill development in one-to-one or small group settings.

Intervention targets underlying language processes as well as their application to academic and social contexts. Areas addressed include receptive and expressive language, comprehension of complex material, inferencing, and the organization of verbal and written expression. Executive functioning is addressed as it relates to language, including planning, organization, flexible thinking, and self-monitoring. Speech production skills, including articulation and speech fluency, are also addressed as needed to support clear and effective communication.

Students are supported in developing metacognitive awareness by reflecting on how they learn, process language, and communicate. This includes building self-advocacy skills so that students can effectively express their needs in academic and social settings. Students are encouraged to notice variability in performance, engage in ongoing experimentation with new strategies, and expand their cognitive flexibility. Social communication is addressed through perspective-taking, conversational skills, and navigating peer and classroom interactions in meaningful contexts.

Services are designed to improve skills, build confidence, and support students in applying strategies across settings.

STUDENT LIFE DEPARTMENT

The Student Life Department is designed to create a residential experience where students build independence, self-advocacy, and leadership skills within a relationship-centered framework. Dorm parents serve as consistent mentors and coaches, guiding students through both the daily rhythms of boarding school life and the broader developmental challenges of adolescence.

Each residential floor is led by a dorm parent supporting 15–20 students, allowing for meaningful relationships and individualized guidance. This structure creates smaller communities within the larger school where students feel known, supported, and accountable, while reinforcing a strong sense of belonging and shared expectations.

A core part of the program is a weekly, dorm-based curriculum focused on social and emotional development. Through structured, discussion-based floor meetings, students engage in topics like executive functioning, identity, belonging, relationships, and cultural awareness. The curriculum is developmentally sequenced and shaped in part by student voice, with student proctors helping guide conversations and build shared ownership.

We emphasize real-world application, encouraging students to practice these skills in their daily lives—managing responsibilities, navigating relationships, and contributing to their communities. Through consistent mentorship and reflection, students build the confidence and skills to advocate for themselves and step into leadership roles.

VISUAL AND PERFORMING ARTS

The Visual and Performing Arts department teaches students how to use the arts to understand the world, spanning global traditions, art history, and personal influence. Students engage in an iterative process of technique, reflection, and revision to convey ideas more effectively through their chosen art form. The arts use the latest technologies in each field to prepare students for potential careers. Students have opportunities to learn from artists and museums. The arts allow students to express, understand, and generally contextualize the world they experience. Performance and exhibition are crucial to the arts, and at EHS, students have ample space to showcase their talents to peers and the public. Students learn how to support, defend, and explain their artistic choices, ensuring they fully engage with the creative process. Through the creative process, students develop into independent thinkers and problem solvers, skills that can be applied to lifelong learning.

Course offerings in this department include fine arts, graphic arts, performing arts (including music and theater), woodworking, makerspace, set building, and technical theater design. Advanced courses and internships for students considering arts study in college include courses in portfolio development, technical theater, music theory, and advanced acting.

Acting Shakespeare

Course Code: Vis110

Description: Students will learn techniques for understanding and acting in Shakespeare's works. Most important is that students find acting Shakespeare fun and enlightening. Emphasis will be put on learning to turn Shakespearean acting into a physical experience, including stage combat, appropriate expressiveness, and clowning. An appreciation for the uniqueness of Shakespeare's works is a central goal of the course.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Advanced Acting Techniques

Course Code: Vis400

Description: In Advanced Acting Techniques, students will build on techniques learned in Basic Acting and Performing Arts Seminar. The course will include Michael Chekhov's Acting Techniques, the basics of the Stanislavsky Method, and Boleslavsky's ideas. Students will gain an understanding of acting through the ages, from Greek chorus to Victorian melodrama to modern theater. A performance piece will be chosen, and students will be required to take on a character or characters and present a performance to the public.

Prerequisites: Basic Acting

Permission Required: yes

Grades: 8,9,10,11,12

Credits: 3

Arts Management Internship

Course Code: Vis200

Description: Supporting the brilliant performances at the Cultural Center at Eagle Hill is the business of Arts Management. The performing arts cannot happen without the important background work of budgeting,

scheduling, coordinating, marketing, and publicizing. Arts Management student interns help to make the Cultural Center and its programs a success by playing a vital role in the Center's operation.

Prerequisites: None
Permission Required: yes
Grades: 10,11,12
Credits: 1

Basic Acting Techniques

Course Code: Vis115

Description: Basic Acting Techniques is a course for beginners or a refresher class for seasoned actors. This course builds actors' creative confidence through active learning, creativity, and play. This course covers a broad range of acting techniques.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Beginning Drawing and Beyond

Course Code: Vis745

Description: This course introduces the basic principles, elements, and practices of drawing, employing a wide range of subject matter and drawing media. The course focuses on perceptually-based drawing, observational methods, technical abilities, and creative thinking. The goal of this course is to give students practical drawing methods through drawing different subject matters: animals, figure drawing/character design, still life/props, landscape/worldbuilding, portraiture, vehicle design, and others. This course builds the drawing fundamentals important for further creations in design, illustration, painting, and sculpture.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

CNC Woodworking

Course Code: Vis475

Description: The CNC Woodworking class takes the student through the process of planning, designing, programming, and running projects on a Shopbot CNC machine. The students learn the process and create original pieces. They will have the opportunity to choose and design their own projects and see them through to a final product. Students are limited only by their imaginations in this class. As they master the Vcarve software, they will see their ideas come to fruition. Time will be divided between computer-aided design and woodworking. Students will learn the software and design their projects. The second portion of the class will take place in the woodshop, where their projects will be created using the CNC Shopbot machine.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Desktop Publishing & Yearbook

Course Code: Vis190

Description: This course utilizes the computer software Adobe Creative Suite to produce the school's yearbook. Targeted skills include using digital cameras, scanners, preparing photographs for publication, page layout and design, and meeting a publisher's deadlines.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Eagle Hill Jam

Course Code: Vis750

Description: Eagle Hill Jam aims to bring together Eagle Hill's experienced performing musicians and provide a learning experience to improve musicianship and ensemble skills. Musicianship includes developing advanced performance technique, an intermediate understanding of music theory, and an appreciation for the history of music. Ensemble skills include building community, learning productive ways to collaborate with other musicians, and programming interesting recitals and concerts. To develop these skills, students will focus on applying Eagle Hill's core values of honesty, respect, kindness, and purpose to practice, create, and perform diverse music. Students will be assessed on their commitment to daily practice, regular presentations, and performances.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Film as Art

Course Code: Vis750

Description: Eagle Hill Jam aims to bring together Eagle Hill's experienced performing musicians and provide a learning experience to improve musicianship and ensemble skills. Musicianship includes developing advanced performance technique, an intermediate understanding of music theory, and an appreciation for the history of music. Ensemble skills include building community, learning productive ways to collaborate with other musicians, and programming interesting recitals and concerts. To develop these skills, students will focus on applying Eagle Hill's core values of honesty, respect, kindness, and purpose to practice, create, and perform diverse music. Students will be assessed on their commitment to daily practice, regular presentations, and performances.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Hand-Built Pottery

Course Code: Vis255

Description: Hand-Built Pottery covers the basics of creating pottery by hand. Students will be exposed to the main terms and techniques that accompany the making of pottery. The first half of the course focuses on learning the process for creating with clay, and students will be asked to follow along with task-specific

demonstrations to understand fully how a technique works and its purpose. The basic hand techniques of coil, pinch pot, and slab construction will be taught. Students will be required to make preparatory sketches in their sketchbooks to plan their individual pieces. Once proficient with these processes, students will plan and create their own pottery pieces to be glazed and fired in the kiln to presentation-worthy completion.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Improvisation

Course Code: Vis105

Description: This course builds students' confidence and improvisational skills. Students practice acting in improvisational situations, using their voices, creating songs, and using props. In addition, students learn to act with partners on the stage and to understand the methods of improvisational performance.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Introduction to Comic Making

Course Code: Vis760

Description: This course covers the comic-making process through three short-length major projects. The first project will ask students to create a one-page, six-panel self-portrait comic using the basic sequential narrative design. The second will require students to find a preexisting text—song lyrics, an excerpt from a movie or animation script, a part of a novel, for example—and then make it into a five-page comic. The final project will ask students to write and illustrate their own original story in a five- to six-page format. Each project will feature a cycle of smaller assignments that focus on the elements of comic creation: brainstorming, researching, scriptwriting, character design, thumbnails, penciling, inking, lettering, and use of colors/gray tones. The goal of this course is to provide an experience of making comics and a sense of visual storytelling.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Introduction to Guitar

Course Code: Vis685

Description: This course offers students hands-on instruction in playing the guitar. The instruction begins at an entry level with scaffolding and advanced challenges provided. Students will learn how to play notes, scales, chords, and songs. Students will also be taught various rhythmic techniques, such as alternating strumming patterns and finger picking.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Introduction to Lighting

Course Code: Vis695

Description: This class explores the theories of theatrical lighting design. Students begin by learning the different lighting instruments and the safe process of rigging and hanging the lights. Students learn how to cable and operate the dimming system and focus all fixtures. Following that, the course will introduce the lighting board. Students will learn how to write cues and program the board for performances.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Introduction to Technical Theater

Course Code: Vis570

Description: The Introduction to Technical Theater is intended for students who have an interest in exploring the world of backstage work. Students must demonstrate attention to detail, teamwork, organizational skills, responsibility, initiative, and a can-do attitude. They will work with faculty members designing and implementing lighting, sound, rigging, and set construction, and running the technical functions for each production—in addition to less glamorous but equally important labor such as setting up risers, repairing other furniture, and keeping equipment organized and well-maintained. This introductory class is an opportunity to see if the Technical Theater Intern program is a good fit for the student.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Introduction to the Performing Arts

Course Code: Vis625

Description: Introduction to the Performing Arts is an exploratory course focused on performance art. Integrating the study of world music, instruments, artistic theory, and history with practice singing, playing, acting, and dancing, the course introduces students to a variety of performance opportunities and arts knowledge. Students are challenged to create, practice, and perform each day as they discover different ways they are interested in interacting with the arts. Topics to be introduced may include percussion and rhythm, instrumental practice, choral singing, spoken word performance, songwriting, improvisation, music in social justice, music production, and dance. A brief introduction to some of the visual art offerings at Eagle Hill is also included.

Prerequisites: None

Permission Required: No

Grades: 8,9

Credits: 1

Maker Challenge

Course Code: Vis740

Description: Have you ever looked at something and wondered, "How did they do that?" In the Maker Challenge course, students will look at these very questions and work to answer them. Using design processes,

we will explore unique challenges and work together to explore questions like how the pyramids or Stonehenge were constructed. In a collaborative studio atmosphere, students will engage in research, design thinking, and prototype construction. Students also have the opportunity to pursue individual projects.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Making with Metal

Course Code: Vis605

Description: In this course, students will be introduced to different areas of working with metal. Whether it is to solve a problem or to create a piece of art, metal can be used in many ways. We will explore welding and its applications, metal forging and shaping, sheet metal and assorted types of steel stock, and silversmithing. Students will start with instruction, be assigned several challenges, and then decide on a final project.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Making with Resin

Course Code: Vis635

Description: Students in Making with Resin explore the different applications of epoxy resin. Instruction will emphasize proper pour measurements, coloring, and use of molds. Students will research and decide on individual projects combining resin with the use of the CNC woodworking machine to create unique resin molds.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Mixed Art Media

Course Code: Vis260

Description: Mixed Art Media explores the use of nearly all materials found in the art room. Students will cover techniques that apply to each of the specific materials introduced, and the class will culminate in a final project using at least three of the techniques explored in class. The art making will take two-dimensional and three-dimensional forms. Throughout this class, students will be asked to explore and plan with the help of a personal process book, much like an art journal. This course also targets the development of exploratory skills, time management, and perseverance.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Modern/Contemporary Dance

Course Code: Vis620

Description: Modern/Contemporary Dance is a studio technique course that allows students to develop expression through movement. This style of dance focuses on body and core strength, spatial awareness, and the use of breath, body weight, and release/recovery. Students will build from the techniques of modern dance pioneers José Limó and Martha Graham. By the end of the course, students will have learned a full-length dance utilizing these techniques.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Multimedia Production

Course Code: Vis785

Description: This immersive course equips students with the technical, creative, and narrative skills needed to plan, produce, and edit high-quality video and audio projects for multiple digital platforms. Students also study social media as a contemporary media form, analyzing its impact on communication, culture, and storytelling. In addition, the course examines the role of media in society, past, present, and future, while developing critical awareness alongside hands-on production skills.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Musicology

Course Code: Vis795

Description: Musicology introduces students to the study of music from a cultural and historical perspective. Students explore a broad array of traditions from around the world with the goal of formulating and answering questions about music's nature and about its use by people in diverse times and places. These diverse traditions will be studied through reading, listening, and performing together during class. Students will also develop essential skills for thinking and writing critically about music-related subjects. This course is recommended for students interested in IB Music.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Music Theory

Course Code: Vis215

Description: Music Theory is open to any student interested in developing an understanding of the theory behind how music works. This course helps students build a foundation in basic musical elements as they discover how pitch, rhythm, harmony, and structure work together to create original music. Students will study music from around the world to learn diverse musical systems and rules. Exploration and experimentation will

be used to apply this knowledge to the composition of students' own music, musical analysis, or even an original musical system. Music Theory is a prerequisite for Advanced Music Theory and is recommended for those interested in IB Music.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Musical Theater Repertoire

Course Code: Vis775

Description: In Musical Theater Repertoire, students work with Eagle Hill's music director and choreographer to learn songs and dances from popular musicals throughout history. They are introduced to the history of musical theater on Broadway and around the world. Students are expected to perform the numbers rehearsed in class. Performances may include monthly open mic nights on campus, concerts, or other school events. This course is designed for students interested in developing their singing and dancing skills, while working in an ensemble setting—all important skills for succeeding in the performing arts.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

One Act Competition

Course Code: Vis125

Description: This is an advanced acting course for students who want to be involved in drama competitions with other schools. Students learn the essential skills required for membership in an ensemble cast while preparing for high school drama competitions. Students accepted into this course by audition commit to attending all rehearsals called by the director, as well as those required by competition organizers.

Prerequisites: None
Permission Required: yes
Grades: 8,9,10,11,12
Credits: 3

Outdoor Watercolor

Course Code: Vis650

Description: The Outdoor Watercolor class encourages students to strengthen their observational sketching skills. Throughout the course, students will work on timed sketches with pencil and watercolor. The focus is on portraying objects as shapes and using natural light to create value. This course will take place outdoors to provide the class with endless subjects to sketch and paint. By the end of the course, students will have strengthened observational skills and understand the process that an image goes through to get from their eyes

to the paper. Students will also begin developing their own style of sketch from observation. The class will end with a final project for which students pick one subject as their focus for a week, resulting in either a vignette of drawings or one final, large watercolor.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Performing Arts Exploration

Course Code: Vis765

Description: In Performing Arts Exploration, students spend time exploring dance, music, and theater in unique ways. The course begins with a basic review of each discipline. Through conversation, exploration, and creative assignments, students help determine the different elements of performance their section covers. Topics may include STOMP!, a cappella and chant, improvisation, song and dance games, and scene development. Students' understanding and engagement in the performing arts will be evaluated on class participation, willingness to collaborate and create, and regular presentations.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 3

Pottery Lab

Course Code: Vis655

Description: This lab course provides access to the pottery studio for an advanced pottery student to use the wheel independently. Students enrolling in the Pottery Lab must be self-sufficient and experienced on the wheel.

Prerequisites: Previous class with F. Riendeau
Permission Required: Yes
Grades: 8,9,10,11,12

Public Speaking

Course Code: Vis365

Description: Public Speaking is a fun, practical course to improve your ability to communicate with others and become an effective student and leader.

Prerequisites: None
Permission Required: No
Grades: 8,9,10,11,12
Credits: 1

Screen Printing for Commercial Graphics

Course Code: Vis165

Description: This course utilizes the graphics process of screen printing, focusing on projects such as t-shirts,

stickers, and posters found in the commercial graphics field. In screen-printing, the principle involved is forcing ink through a stenciled screen. Procedures for making screens will include both hand-cut and photographic methods.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Set Building and Design

Course Code: Vis140

Description: This course exposes students to the technical and creative aspects of set design and building. Students design and build sets to be used in productions at Eagle Hill School. Using hand drawings and theater software, students create interactive 3-D computer models of theater or performance spaces where the systems usually associated with performance (lights, sound, fly bars, revolves, and trucks) are used. Basic carpentry and electrical skills are learned while building sets, as well as painting and color coordination for dramatic effect. In addition, students learn about "dressing the set" for performances.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Stage Combat

Course Code: Vis385

Description: In this course, students learn about stage combat and how to "fight" safely on stage. Students focus on two elements of stage combat: hand-to-hand combat and single-sword combat. Hand-to-hand combat entails falling, slaps, grabs, chokes, pushes, tackles, punches, and kicks. Single-sword combat is sword fighting with one sword. Students will learn the parts of a sword and the terms of the trade. The class will train these techniques and will perform in front of an audience.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Studio Art & Portfolio Preparation (11)

Course Code: Vis285

Description: The purpose of this course is to guide students in developing a portfolio that will be representative of their most complete and expressive work. Students will complete a process book along with their finished portfolio pieces. There are weekly homework assignments to accompany the techniques learned in class and to provide students with the opportunity to expand their individual ideas for art pieces. Students complete a significant amount of observational work to develop their foundational art skills, but they are encouraged to continue creating with their own styles. Student interest will also influence which techniques and media the class will explore further.

Prerequisites:

Permission Required: Yes

Grades: 11

Credits: 6

Studio Art & Portfolio Preparation (12)

Course Code: Vis285

Description: The purpose of this course is to guide students in developing a portfolio that will be representative of their most complete and expressive work. Students will complete a process book along with their finished portfolio pieces. There are weekly homework assignments to accompany the techniques learned in class and to provide students with the opportunity to expand their individual ideas for art pieces. Students complete a significant amount of observational work to develop their foundational art skills, but they are encouraged to continue creating with their own styles. Student interest will also influence which techniques and media the class will explore further.

Prerequisites: Studio Art (11)

Permission Required: Yes

Grades: 12

Credits: 3

Technical Theater Internship

Course Code: Vis205

Description: Students manage and run the state-of-the-art theatrical lighting, sound, and rigging systems at the Cultural Center for school productions as well as visiting productions. Interns must be interested in technical theater and ready to be responsible, reliable, devoted members of a team. Student interns participate in intensive training and then take on responsibilities such as consulting with performing artists about their technical needs, designing and implementing lighting, sound, rigging, and sets, and running the technical functions for each concert and production. Ongoing professional development helps interns hone their practice of technical arts. Interns earn academic credit, and they also benefit from the exciting experience of becoming experts in theatrical systems, collaborating with performing artists, and building unusually substantive resumes.

Prerequisites: None

Permission Required: yes

Grades: 8,9,10,11,12

Credits: 9

The Art of Weaving

Course Code: Vis790

Description: The Art of Weaving is for both first-time and experienced weavers. First-time weavers learn how to create a hand-woven scarf by designing a scarf, warping the loom, and weaving the scarf from bambu-7 yarn. Experienced weavers may select from a variety of projects (e.g., scarves, table placemats, mug rugs, table runners). Students may also choose from a variety of yarns (e.g., cotton, linen, alpaca wool) with the goal of becoming independent weavers by course completion.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Women in Metal Work

Course Code: Vis735

Description: Whether it is to solve a problem or to create a piece of art, metal can be used in many ways. In this course, young women are introduced to different areas of working with metal, including welding, silversmithing, and forging in the context of a female-only course section. Students will start with instruction, be assigned a group challenge, explore silversmithing, and then decide on a final project.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Woodworking

Course Code: Vis155

Description: The Woodworking course acquaints students with the essential principles of woodworking. Topics include wood characteristics, use of hand tools, portable power tools, and basic machinery. Emphasis is placed on proper technique, safety, and policies for the woodshop. Students complete a project designed to develop primary woodworking skills.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Woodworking: Box Making

Course Code: Vis555

Description: In this course, students learn basic woodworking techniques, power/hand tool use, and safety while making a small box project. The project will start with a student-generated design idea, developed cooperatively with the teacher. As the design evolves, the student will learn about design aspects as well as how various woodworking techniques play an important role in the project's development. Students will complete a small box of their own design.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

WORLD LANGUAGES

The World Language department is committed to providing an inclusive and dynamic learning environment. A basic tenet of our department is that all students, including those with learning disabilities, can develop meaningful communication skills in a new language. The department emphasizes an awareness of both linguistic proficiency and cultural understanding across all the languages it offers including American Sign Language (ASL), Latin, and Spanish.

Teachers design their instruction to address diverse learning needs by incorporating a wide range of methodologies and approaches, including visual support, scaffolded instruction, multisensory learning techniques, guided project-based activities, and interactive games. The department's primary goal is to ensure that every student engages creatively, reflectively, and meaningfully with the content without the constraints of standardized pacing.

The department embraces innovation and technology, with teachers regularly integrating various platforms, language-learning apps, and multimedia support into their lessons. These tools enhance student engagement with both the language and its culture. By blending traditional instruction with contemporary strategies and technology, the World Languages department fosters an accessible, enriching, and supportive learning environment for our students.

American Sign Language I

Course Code: Wor260

Description: This course introduces the basics of American Sign Language (ASL) and is an introductory-level course that establishes a novice range of communication skills. This course emphasizes the cultural practices distinct to those who approach the world from a visual perspective. Learning will be approached via visual-gestural communication techniques, visual discrimination, and visual memory exercises. Topics include finger spelling, ASL questions, basic rules of grammar, non-manual aspects of ASL, and other simple sentence structures introduced to develop rudimentary conversational skills in ASL. Information about the Deaf community and Deaf culture is introduced.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

American Sign Language II

Course Code: Wor270

Description: The American Sign Language II course continues the study and practice of basic skills initiated in ASL I with a focus on the development of ASL conversational skills and storytelling. While vocabulary acquisition will continue to be addressed, additional emphasis will be placed on grammatical principles and function as well. Appropriate cultural behaviors and conversational regulators in ASL will continue to be an important part of the class. Readings, activities, and class discussions familiarize students with Deaf culture and social issues related to the Deaf community.

Prerequisites: ASL I

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Advanced American Sign Language

Course Code: Wor 280

Description: The study of American Sign Language is a cumulative experience. In ASL I and II, students develop a competent signing vocabulary and begin practicing simple conversational skills using these basic signs. In the Advanced ASL course, students refine expressive and receptive skills through a variety of activities emphasizing building sentences using appropriate structures, storytelling, debate, and presentations, focusing on ASL fluency. Attention is given to the correct formation of signs, movement, rhythm, phrasing, speed, and clarity of expressions and syntax. This multi-leveled course includes intensive vocabulary building, a nuanced practice of ASL expressions and social context for their use, and proficiency in ASL grammar. Advanced ASL instruction is conducted mostly in ASL with minimal speech. The course aims to also develop ASL cultural awareness through a strong focus on Deaf culture and history of the Deaf community. Opportunities for practical application of communication skills will take place via in-person service-learning events and collaboration with Deaf students in a local educational program. As a flexible, individualized cumulative learning experience, students may enroll in this course multiple times as they work towards the goal of mastery.

Prerequisites: ASL II

Permission Required: No

Grades: 8, 9, 10, 11 12

Credits: 8

Latin I

Course Code: Wor110

Description: Latin I provides a general introduction to the nature of language study for students across the spectrum of backgrounds and abilities. Goals for the series of Latin courses include students reading the Latin of classical authors with confidence, developing an awareness of the culture of the Romans (including its historic significance and contemporary relevance), enhancing their general language learning techniques and aptitudes (including facility with English), and developing their thinking skills by strengthening the skills used for deductive and analogous reasoning, interactive learning, comparative analysis, and critical assessment.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Latin II

Course Code: Wor115

Description: Latin II provides continued instruction in the language. Goals for the series of Latin courses include reading the Latin of classical authors with confidence, developing an awareness of the culture of the Romans (including its historic significance and contemporary relevance), enhancing students' general language learning techniques and aptitudes (including facility with English) and developing thinking skills by strengthening deductive and analogous reasoning, interactive learning, comparative analysis, and critical assessment.

Prerequisites: Latin I

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Latin III

Course Code: Wor120

Description: Latin III provides continued instruction in the language. Goals for the series of Latin courses include students reading the Latin of classical authors with confidence, developing an awareness of the culture of the Romans (including its historic significance and contemporary relevance), enhancing their general language learning techniques and aptitudes (including facility with English) and developing their thinking skills by strengthening the skills used for deductive and analogous reasoning, interactive learning, comparative analysis, and critical assessment.

Prerequisites: Latin II

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Spanish I

Course Code: Wor140

Description: Spanish I introduces students to Spanish culture and language. Students read, write, listen, and speak about cultural topics such as home and family, community, health, environment, education, food, clothing, and leisure activities. Students learn to express information about themselves and to compare and contrast their cultural backgrounds with those of Spanish speakers around the world. In addition, students reinforce and expand their knowledge of other academic areas through interdisciplinary connections. Class activities include dialogues, discussions, readings, film viewing, computer activities, performance tasks, and essays. Students engage in independent, paired, and group practice, as well as oral and written quizzes and tests. For listening comprehension and improvement of their pronunciation, students use computer-based applications.

Prerequisites: None

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Spanish II

Course Code: Wor145

Description: Spanish II is a continuation of Spanish I. The course builds on the cultural knowledge and language acquired during the first year of study and furthers the understanding of Spanish. Class activities include dialogues, discussions, readings, film viewing, computer activities, performance tasks, and essays. Students engage in independent, paired, and group practice, as well as oral and written quizzes and tests.

Prerequisites: Spanish I

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Spanish III

Course Code: Wor150

Description: Spanish III is a continuation of Spanish I and II. The course builds on the cultural knowledge and language acquired during prior years of study and furthers the understanding of Spanish. Class activities include dialogues, discussions, readings, film viewing, computer activities, performance tasks, and essays. Students engage in independent, paired, and group practice, as well as oral and written quizzes and tests.

Prerequisites: Spanish II

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8