

CATALOG

ACADEMIC

Course Catalog & Curriculum Guide

2025
2026



TABLE OF CONTENTS

Introduction	3
Curriculum & Schedule Design	4
Community Values	5
Graduation Requirements	6
Curriculum Model	8
Computer Science	10
Diversity and Social Justice	14
English	16
History	23
IB Diploma Programme	26
Life Skills	32
Mathematics	33
Mathematics Curriculum Model	34
Physical Education	42
Reading	46
Science	50
Social Emotional Wellbeing	56
Speech & Language Therapy	64
Visual & Performing Arts	65
World Languages	77

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 preferences, and interests. By fashioning the classroom instruction around these four elements, academic success can be achieved.

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

As social skills mentors, we offer students the tools 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 assume increasing levels of autonomy.

Please use this guide to familiarize yourself with the academic resources that Eagle Hill School has to offer students with learning (dis)abilities. Descriptions of course offerings are included on the EHS website. 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 allow for multiple points of entry. 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 “major/minor”
- time for independent study
- students may have different, developing academic plans

Academic Rigor & Exploration

- a mechanism for academic exploration
- students benefit from the opportunity to experiment with things they’re not yet good at
- 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
- consideration is given to how students will transition between traditional academic coursework and internships

Structure & Independence

- students should be 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 headmaster 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 headmaster 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

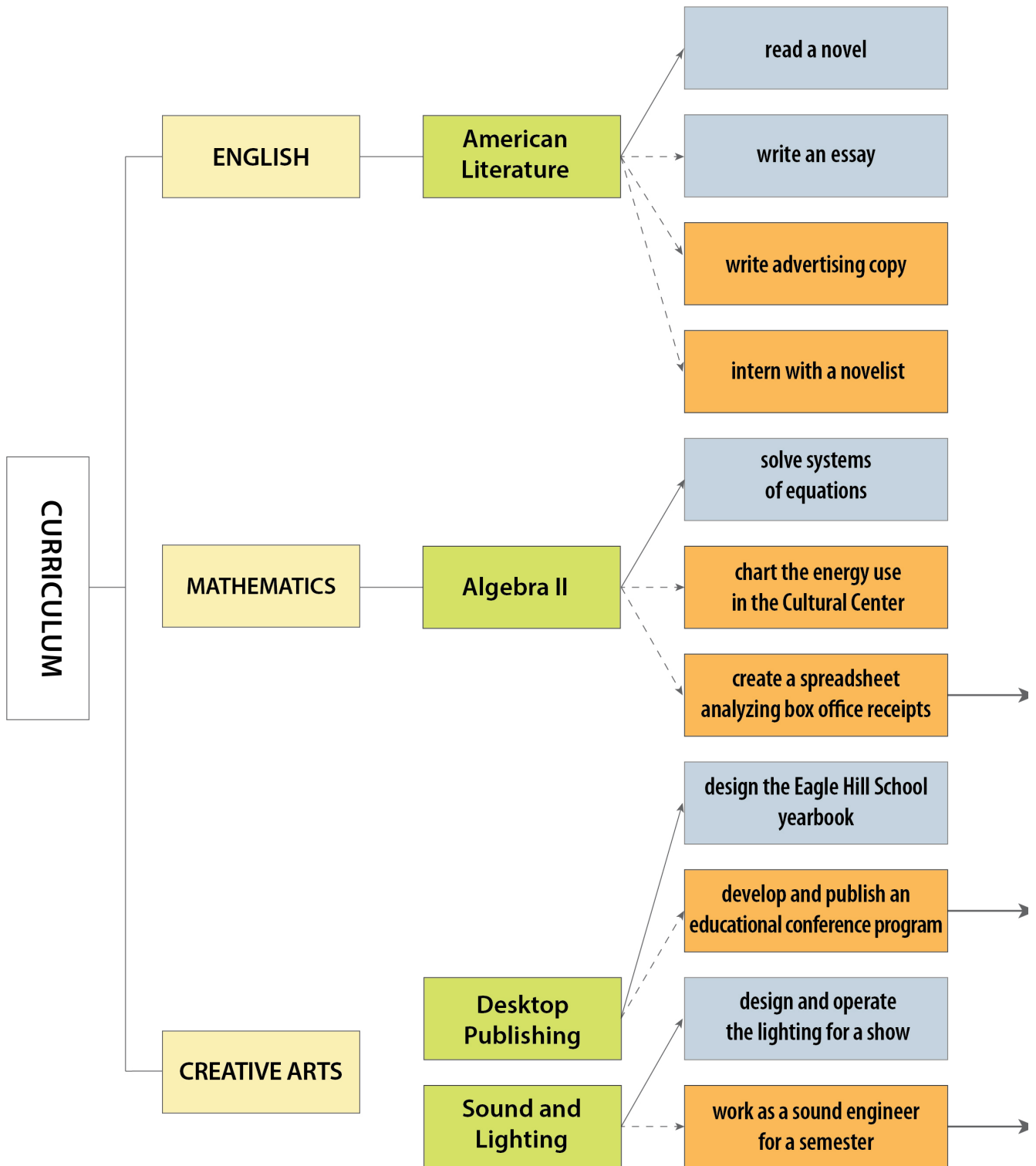
Each student at Eagle Hill School must complete at least 10 hours of community service per year as a high school student. Community service is defined as volunteer work that students do to clearly benefit a community, in the student's hometown, at school, or through a school sponsored project.

GRADUATION REQUIREMENTS

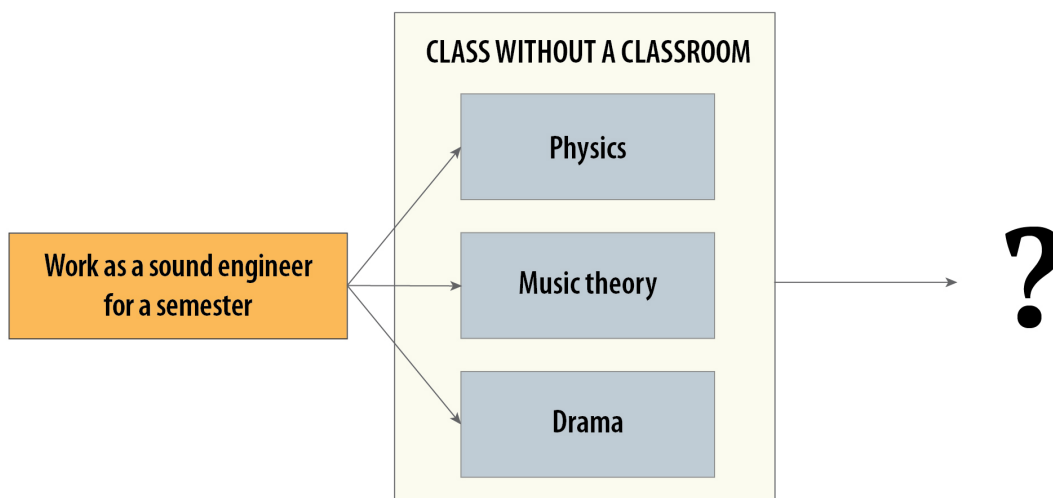
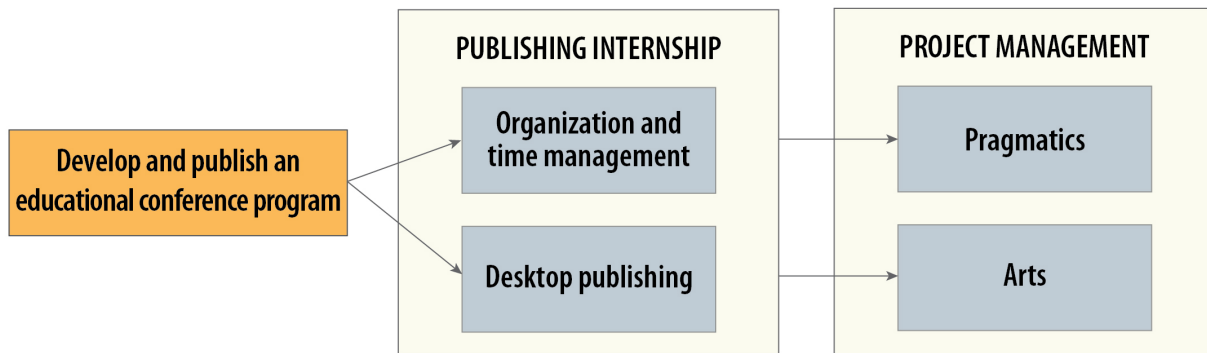
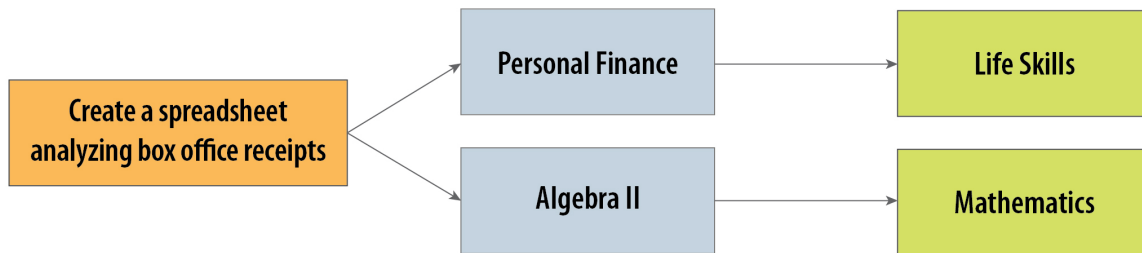
	MINIMUM CREDITS REQUIRED FOR GRADUATION	REQUIRED COURSE(S)	MINIMUM CREDITS RECOMMENDED FOR FOUR-YEAR COLLEGE PREPARATION
ARTS AND HUMANITIES English Diversity and Social Justice History Visual and Performing Arts World Language	86	Government (8) Social Construction of Identity (3)	108
QUANTITATIVE REASONING Math Science Computer Applications Computer Science	58	Biology (8)	70
CORE ENRICHMENT Pragmatics Life Skills 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

CURRICULUM MODEL



CURRICULUM MODEL



COMPUTER SCIENCE

The computer science department has three main learning objectives: **algorithmic thinking**, **debugging**, and **learning new software packages**.

The main learning objective is to teach students **algorithmic thinking**, which is the ability to rationalize and formalize a complex task by breaking it into component actions and grouping those actions together in the proper way to complete the overall task.

The second learning objective is exercising the logical thinking required for debugging code (i.e., finding errors in a program). This skill requires determining the correct variables that contain the crucial information and logically reasoning what the correct values should be for these variables as the program executes.

These two learning objectives also apply to 3D and 2D design. Design software involves both combining primitive shapes together to make a more complex shape (i.e., creating an algorithm that forms a complex shape).

The third learning objective is **how best to learn new software packages**. Software applications and IDEs (integrated development environments) are evolving regularly. Students will experience a never-ending evolution of new software tools throughout their lives. This skill includes finding reliable tutorials, crafting accurate search engine queries to locate reliable answers, and staying up to date on new software releases.

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. In three terms, 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:

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. In one term, they will learn the basics of 3D design and 3D print several objects of their choosing.

Prerequisites:

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 in one term by the proposing student. This will allow that each student can hit the ground running on the first day of class so they have the best chance to finish their project in one term.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

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 and 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:

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, 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:

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

IT Internship

Course Code: ~Csc220

Description: Interning students learn and assist the IT department in their daily duties, 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 (terms), 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 are into art and 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, Legos, etc.) or 3D printing some of the needed items. The animation app is very easy to use requiring only a few minutes of instruction.

Prerequisites:

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 room? These and thousands of other problems 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: Intro to Coding with Python, Algebra 1

Permission Required: No

Grades: 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, students will learn how to make their own video games using the same platform that 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, etc.). The main difference is that Blueprint presents the constructs in a visual manner.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

DIVERSITY AND SOCIAL JUSTICE

Make a Difference

Course Code: ~Div160

Description: This class builds on the foundations of the Social Construction of Identity exploratory course and the school's community service program to offer an opportunity for students who are interested in developing their agency in a meaningful way that culminates in a strategic and organized plan of action which can be put into place on campus or in their home community. The course's content will incorporate the theory of social capital which includes three dimensions: interconnected social ties or social participation, levels of trust that characterize these connections, and benefits that are both gained and transferred by virtue of these connections and social participation. Students will use these elements to build a plan for a project that harnesses their interests.

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: 9,10,11,12

Credits: 1

Speak Up!

Course Code: ~Div135

Description: This one term course focuses on effective and appropriate strategies for bystander intervention. The goals are to raise awareness, increase motivation to intervene, develop skills and confidence, and maintain safety of self and others when addressing difficult situations.

Prerequisites:

Permission Required: No

Grades: 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 will allow students the opportunity to look more deeply at a specific form of oppression and establish strategies for change both individual and collectively.

Prerequisites:

Permission Required: No

Grades: 9,10,11,12

Credits: 3

ENGLISH

As a department, we are all aware of the diverse educational backgrounds and experiences of our student population. With this understanding, we are able to identify and address the genuine academic needs our students have. We strive to synthesize a variety of educational philosophies and to formulate a holistic approach to instruction and curriculum development. As a faculty, we are convinced that the 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 react to changing student needs.

We believe that education is a process through which the student progresses in an independent manner; each student, regardless of age or grade level, must be able to demonstrate a consistent ability and a substantial level of skill mastery prior to his or her advancement into more challenging areas of academic pursuit. Thus, the rate at which a course advances is determined on an individual basis, providing each student enrolled with a challenging and successful academic experience. The specific topics addressed during the course are chosen by the instructor. By remaining cognizant of genuine student need and by maintaining an interest in the refinement and improvement of our collective instructional approach, we best prepare our students for the future and instill in them a sense of confidence and assuredness.

Our English department's mission is to provide students of Eagle Hill School opportunities to engage with language in ways that respect and challenge them as learners; therefore, students engage in rhetoric and writing, literary analysis, and ethical considerations. Our department believes that language is an activity that involves ethical choices that arise from the relationships of writer and audience. Understanding the relationships we form through our language usage, 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?

It is intended that all students will acquire and master the essential skills required to understand, explore, and express ideas through language. Students will also develop an ability to apply their literal, critical, and affective comprehension skills to a variety of literary forms. Finally, students will develop a level of competence and motivation for continuing independent learning, self-instruction, and adaptation to a changing environment.

1999: The Year That Changed Movies Forever

Course Code: ~Eng895

Description: 1999 featured ground-breaking movies, such as Fight Club, The Matrix, Office Space, The Sixth Sense, and Star Wars Episode 1: The Phantom Menace, among others. This class will formally analyze these films while placing them in the cultural context of the Y2K era. Coursework will include long and short written assignments, discussion, and outside research.

Prerequisites:

Permission Required: No

Grades: 8, 9, 10, 11, 12

Credits: 3

Conducting the Research Process (1 term)

Course Code: ~Eng815

Description: This class will focus on the research approach, providing the fundamental steps that constitute the standard research process. Students will not only learn the basic steps, from narrowing down an appropriate topic to identifying what steps are necessary in the process of gathering information but will also practice these skills by actively searching for a specific topic using multiple resource formats such as digital and print. Students will explore different databases, books, journal articles and other source materials to explore the most relevant and important answers to their research questions. Once they find sources they will learn to process, organize, and evaluate the information based on importance and relevance to their thesis or essay purpose. It is possible for students to write in some form, but the objective of the class to emphasize research tools for the information gathering process rather than the writing process.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Conducting the Research Process (3 terms)

Course Code: ~Eng815

Description: This class will focus on the research approach, providing the fundamental steps that constitute the standard research process. Students will not only learn the basic steps, from narrowing down an appropriate topic to identifying what steps are necessary in the process of gathering information but will also practice these skills by actively searching for a specific topic using multiple resource formats such as digital and print. Students will explore different databases, books, journal articles and other source materials to explore the most relevant and important answers to their research questions. Once they find sources they will learn to process, organize, and evaluate the information based on importance and relevance to their thesis or essay purpose. It is possible for students to write in some form, but the objective of the class to emphasize research tools for the information gathering process rather than the writing process.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Crafting Digital Writing

Course Code: ~Eng715

Description: Social media continues to play a significant role in our daily lives, and its impact on the interconnection of our world extends far beyond the confines of the internet. It is therefore increasingly important for students to know how to write and analyze various digital media content. In this course, students will learn how to write a wide range of online articles including but not limited to blog posts, feature articles, and opinion editorials. Students will experiment with creating various forms of digital media such as podcasts, video blogs, and advertisements, as well as, how to analyze and interpret the social media content that surrounds them. Students will also have opportunities to create writing projects by way of ideation and iteration, participatory design, physical computing, and radical collaboration.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Greco-Roman Drama

Course Code: ~Eng625

Description: Pride, anger, joy, wisdom, madness—the drama of classical Greece and Rome captures the best and worst of the human condition. From Aeschylus and Sophocles to Seneca and Terence, the class reads the great tragedians and charts the evolution of drama from hillside festival to civic spectacle. The course explores modern interpretations, and also studies the conditions of classical performance in Eagle Hill's amphitheater. Evaluation is based on reading, class discussion, and writing assignments both brief and long. This class fulfills part of the requirement for the Certificate in Classical Studies - Literature Track.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

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:

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 3

Murder, Mystery, and the Detective Novel

Course Code: ~Eng620

Description: Since their inception, detective stories and crime fiction have captivated audiences the world over with their use of suspense and mystery, their memorable yet flawed protagonists, and their sly and unexpected plot developments. In Murder, Mystery, and the Detective Novel, we will trace the evolution of the detective novel from some of its earliest renderings in the work of Edgar Allan Poe and Sir Arthur Conan Doyle; to Agatha Christie and the Golden Age of Detective Fiction during the Roaring Twenties and subsequent Depression; to Dashiell Hammett, Raymond Chandler, Walter Mosley, and other authors whose stories formed the “pulp fiction” or hard-boiled movements that took Europe and the United States by storm. Students will also explore other regional sub-genres and “literary offshoots” that have grown out of this literature’s sustained and pervasive popularity over the past few centuries. In this course, students will not only have the opportunity to read and discuss a collection of diverse stories: they will also analyze the characteristics and literary devices that separate detective stories and crime fiction from other forms of narrative and experiment with them in their own writing.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Our Search for Meaning: Spirituality Across Humanities

Course Code: ~Eng915

Description: This interdisciplinary course delves into the rich intersection of spirituality and the humanities, offering students a unique opportunity to explore the profound ways in which spiritual beliefs and practices shape, and are shaped by literature, art, philosophy/ethics, and culture. Through a combination of lectures, discussions, and experimental writing projects, students examine diverse spiritual traditions and their expressions in various humanistic disciplines. Students read, research, and write about friendship, love, forgiveness, visiting the sick, welcoming guests, repairing the world, and middot (soul traits). Students also consider and practice as knowledge-making activities Lectio Divina, the kabbalistic tree of life, and meditation and mindfulness practices as methods for invention of ideas and arguments. Participants in this course read theories and practices developed by Victor Frankl, Hannah Ardent, Lawrence Kushner, Thomas Merton, Richard Rohr, and Ticht Nacht Hanh.

Prerequisites:

Permission Required: No

Grades: 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 analysis, 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:

Permission Required: Yes—for 10th graders

Grades: 11,12

Credits: 6

Renaissance Literatures

Course Code: ~Eng735

Description: A renaissance is a revival of art and literature in the midst of national, social, political, economic, and religious changes. In this course we will be reading, discussing, and writing about three renaissance periods: the Italian and English renaissances emerging from the dark ages; the American renaissance of the mid to late 1800's to the Civil War; and the Harlem Renaissance of the 1920s. Students will have opportunities to read from a wide range of authors, including Dante, Giovanni Boccaccio, Christine De Pizan, William Shakespeare, Edmund Spenser, John Milton, EA Poe, Emily Dickinson, Fredrick Douglass, Langston Hughes, Claude McKay, Zora Neal Hurston, and many others.

Prerequisites:

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Voices of Color

Course Code: ~Eng905

Description: Voices of Color focuses on the study of literature written by people of color belonging to various cultural traditions and nationalities, as well as covering a wide range of genres and reading levels. Potential author offerings include Toni Morrison, Chinua Achebe, Haruki Murakami, Sherman Alexi, Khaled Hosseini, and more. From memoir to poetry to fictional narratives, students study these texts both as individual pieces and as elements of a literary tradition of works by people of color. Historical and societal contexts will also be examined to help students conceptualize texts and their place in literary history, as well as to develop an understanding of the multitude of cultural experiences that contribute to each writer's unique perspective.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Writing Cultures

Course Code: ~Eng730

Description: This course is playfully titled after the famous anthropology text Writing Culture (Clifford Geertz). Students in this class will research the cultural communities of which they are a part, as well as how culture structures home, work, play, and society. Students will also research and write about popular culture, media culture, and multiculturalism.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Writing on Monsters, Ghosts, Freaks and Aliens

Course Code: ~Eng670

Description: This course provides a forum for the development of creative and academic writing. Units of study focus on the elements of the writing process and acquisition of writing skills. While students will read literature about monsters, ghosts, aliens, and other creatures to critique different approaches to writing, this course is focused on writing persuasive, informative, and narrative texts. Topics of discussion and writing include: we define a monster, what makes something "alien," what makes us human, and the paranormal. Students will write about real and imagined experiences using descriptive details and well-structured event sequences. Students will conduct research projects in cryptozoology to grapple with the concept of what is "natural." Possible projects and assignments include: creating an original monster or alien species, creating an encyclopedia of monsters or alien types, writing short horror stories about encounters with the supernatural, and writing analytical critiques of other horror stories.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Writing the Research Paper

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Young Adult Literature

Course Code: ~Eng910

Description: The Young Adult Literature course explores the vibrant and evolving genre YA literature, examining its themes, stylistic elements, and cultural impact. Students will read and analyze a diverse selection of YA novels, short stories, and graphic narratives that address issues such as identity, coming of age, relationships, and social justice. Through discussions, critical essays, and creative projects, students will engage with the ways YA literature reflects and shapes the experiences of young people. Student will also consider the historical development of the genre and its influence on contemporary literature and media.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

HISTORY

History courses at Eagle Hill School promote active 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 in an effort to understand and explain such key concepts as change, continuity, cause, varying perspectives, and significance. Students develop a better understanding of themselves and the current state of affairs by engaging with history and reflecting on the past.

A Geographic Investigation

Course Code: ~His415

Description: The methods for this individual research project include using geography to interpret the past and the present and plan for the future; 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 specific industry closes; the impact on the water catchment area of a town if a piece of land is converted from woodlands to pasture; the changing face of a club with greater ethnic diversity).

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

A New Nation: Independence to Reconstruction

Course Code: ~His460

Description: A survey of American history from Independence through the Civil War and Reconstruction.

Prerequisites:

Permission Required: No

Grades: 9,10,11,12

Credits: 3

Discover Vietnam

Course Code: ~His550

Description: This one-term course will introduce students to the history, culture, and unique geography of Vietnam. The course will focus on the stark contrast between the northern cities of Hanoi and De Nang which are steeped in a more traditional and conservative culture of Vietnam with the busy, westernized version of Vietnam found in the south in Ho Chi Mihn City. While some history of the war with the United States will be covered to give context to the differences we see between the north and south, the course will mainly focus on the geopolitical scenarios that exist in Vietnam today. Students will explore Vietnam's culture, including its traditions, cuisine, and language.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Founding of a Nation: The Earliest Americans to the Revolution

Course Code: ~His455

Description: A survey of American history from the first peopling of the Americas up to the American War of Independence.

Prerequisites:

Permission Required: No

Grades: 9,10,11,12

Credits: 3

Government

Course Code: ~His110

Description: The Government course is an introduction to the fundamentals of American government and politics. It is designed to guide students as they consider their relationship to the government of the country in which they live. This course aims to help develop critical and analytical reasoning skills as students evaluate issues and public policies in American politics.

Prerequisites:

Permission Required: No

Grades: 11,12

Credits: 8

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

Course Code: ~His465

Description: A survey of American history from the period following Reconstruction to the era of the Cold War.

Prerequisites:

Permission Required:

Grades: 9,10,11,12

Credits: 3

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, and, 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 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 to study the relationship between the two text types and to evaluate the contribution that historical fiction can make in the understanding of an event or an era in history.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Moving Toward the Future: The Cold War and Beyond

Course Code: ~His495

Description: This course explores the history of the United States from the beginning of the Cold War through the Civil Rights Movement, the Vietnam Era, and the end of the Cold War.

Prerequisites:

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: Founding of a Nation and Growth of a Nation

Permission Required:

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:

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.

Prerequisites:

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 ATL categories: thinking, research, social, self-management and communication.

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 and either Pre-IB Science or Chemistry

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 gaining factual knowledge. It puts a premium on developing the skills of critical thinking, and on developing 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. There are six key concepts that 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:

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 gaining factual knowledge. It puts a premium on developing the skills of critical thinking, and on developing 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. There are six key concepts that 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 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 one.

Prerequisites:

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 mathematics content, for example 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 (II) 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 mathematics content, for example mathematics itself, engineering, physical sciences or economics.

Prerequisites: Mathematics: Analysis and Approaches SL (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 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 one.

Prerequisites:

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 inquiring 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, to make connections between areas of knowledge and to become aware of their own perspectives and those of the various groups whose knowledge they share. It is a core element undertaken by all DP students, and schools are

required to devote at least 100 hours of class time to the course. The overall 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. This allows students to develop an enduring fascination with the richness of knowledge. Theory of knowledge is a two year course. This is part one.

Prerequisites:

Permission Required: Yes

Grades: 11

Credits: 3

Theory of Knowledge (II)

Course Code: ~IB330

Description: Theory of Knowledge (TOK) is a course about critical thinking and inquiring 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, to make connections between areas of knowledge and to become aware of their own perspectives and those of the various groups whose knowledge they share. It is a core element undertaken by all DP students, and schools are required to devote at least 100 hours of class time to the course. The overall 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. This allows students to develop an enduring fascination with the richness of knowledge. Theory of knowledge is a two year course. This is part two.

Prerequisites: Theory of Knowledge (I)

Permission Required: Yes

Grades: 12

Credits: 3

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

Prerequisites:

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 visual arts in higher education as well as for those who are seeking lifelong enrichment through 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

LIFE SKILLS

College Orientation

Course Code: ~Lif100

Description: The College Orientation class is a required course designed to help students understand their learning styles and effective learning strategies in order to prepare them for college and 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 application completion assistance.

Prerequisites:

Permission Required: No

Grades: 11

Credits: 3

MATHEMATICS

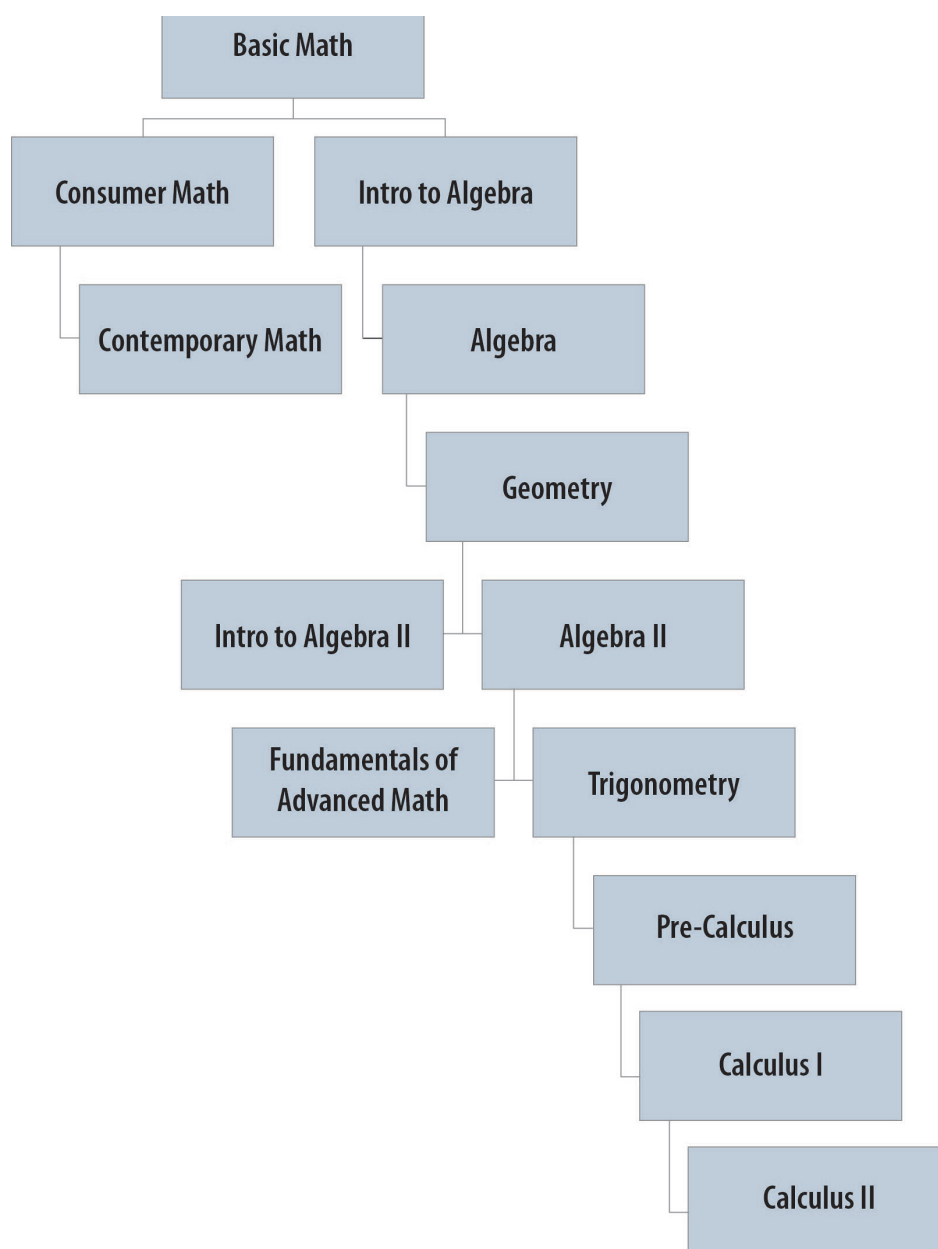
The objective of the Mathematics department is for students to develop an understanding of the basic skills and concepts set forth in each course taken and to apply these skills to real-life situations. The mathematics curriculum at Eagle Hill School contains both college preparatory courses as well as courses geared more toward using mathematics in everyday life.

The Mathematics department implements vital teaching strategies and devices, examples of which are: 1) individualized instruction from the teacher, 2) class textbooks and workbooks, and 3) computer programs that demonstrate processes and generate practice problems.

Each mathematics course is geared toward the success of students with learning (dis)abilities such that the student, by way of diagnostic testing procedures, is directed to specific units based on his or her individual needs. Each unit in all of the courses is developed with one objective and a checklist of specific skills the students must acquire to meet the objective. At the end of each unit there is a cumulative lesson plan which connects the required math procedures to the world in which the student lives.

Classes are small, averaging six students, allowing for both individual and group instruction. A variety of methods will be used in the classroom in order to cultivate students' ability to investigate, to make sense of, and to construct meaning from new situations. Students will learn to use a flexible set of strategies to solve problems, both mathematical and otherwise. In addition to traditional teacher-led discussions, small work-groups, individual exploration, peer instruction, and whole-group discussions will be utilized in the classroom as opposed to an exclusive reliance on rote memorization and reproduction.

MATHEMATICS CURRICULUM MODEL



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, or 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: Intro to Algebra

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, or 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 continue to make connections among mathematics and other disciplines.

Prerequisites: Algebra I and 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 conversion of measurements, both standard and metric, are also developed. Students in Basic Math engage in design thinking, or 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Basics of the Stock Market

Course Code: ~Mat225

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

Prerequisites: Algebra II

Permission Required: No

Grades: 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:

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, or 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Contemporary Mathematics

Course Code: ~Mat210

Description: The Contemporary Mathematics course is designed to survey theoretical and practical applications in mathematics. Topics such as problem solving, finance, measurement, number concepts, art and math, and mathematical modeling are covered. Students in Contemporary Mathematics engage in design thinking, or 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 Contemporary 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. Students will develop critical thinking and problem solving strategies, and learn about the use of various technologies, including operating systems, software, and maker technology.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Fraction Fluency

Course Code: ~Mat235

Description: Fraction Fluency is a course tailored to meet the needs of an individual student based upon his or her experience and skill in the area of fractions. The mathematical skills targeted range from simplifying fractions, to practicing the four operations of addition, subtraction, multiplication, and division, to solving algebraic expressions and equations involving fractions.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Fundamentals of Advanced Mathematics

Course Code: ~Mat125

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

Prerequisites: Algebra II

Permission Required: No

Grades: 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: Algebra 1

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 I

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Integrated Mathematics

Course Code: ~Mat140

Description: Integrated Mathematics features opportunities for students to make connections among informal geometry, basic algebraic concepts, probability and statistics, measurement, and fractions. Students study mathematical terminology, concepts such as similarity and congruence, area, perimeter, and volume. Problems in statistics include applying the mean, median, mode, and range while utilizing graphs, tables, and charts to make predictions and inferences. Students engage in design thinking, or 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 Integrated Mathematics engage in active learning, offering and receiving feedback, tinkering, and academic risk-taking.

Prerequisites:

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Introduction to Algebra II

Course Code: ~Mat290

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 these skills, they will work on solving word problems related to these particular topics. Standardized test sample problems, such as those found on the ACT, will be utilized for this purpose.

Prerequisites: Algebra I and Geometry

Permission Required: No

Grades: 10,11,12

Credits: 8

Introduction to Probability & Statistics

Course Code: ~Mat250

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 the TI-83 calculator to display and understand data.

Prerequisites:

Permission Required: No

Grades: 10,11,12

Credits: 3

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

Mathematics: Test-Prep Strategies

Course Code: ~Mat175

Description: This course is designed to help individual students improve their mathematics skills and knowledge of test taking techniques for standardized achievement tests, especially college admission testing. Course material is developed and based on standard test examples.

Prerequisites:

Permission Required:

Grades: 10,11,12

Credits: 1

Personal Finance

Course Code: ~Mat220

Description: The Personal Finance course develops a student's ability to comprehend day-to-day finances in a technological society. Students are taught what types of banks and bank accounts are appropriate for their individual life styles. Specific units of study include checking accounts, the advantages and disadvantages of using credit cards, and paychecks, specifically targeting tax deductions, gross, and net pay.

Prerequisites: Algebra I

Permission Required: No

Grades: 10,11,12

Credits: 3

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 II

Permission Required: No

Grades: 10,11,12

Credits: 8

Statistics I

Course Code: ~Mat255

Description: The main objective of Statistics I is to provide students with skills to deal with acquisition, analysis and representation of data in useful formats. Topics include characteristics of data, statistical

concepts, and statistical charts. Microsoft Excel is used extensively to process data and represent data graphically.

Prerequisites: Algebra II
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. The students solve many intriguing word problems, with the use of a graphing calculator, from the construction of the pyramids of ancient Egypt to the building of bridges and skyscrapers.

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

Using the Graphing Calculator

Course Code: ~Mat165

Description: Students develop self-confidence while learning a variety of functions available on a graphing calculator. Experience shows that the level of skillful use of the graphing calculator is directly proportional to the accurate performance of most students completing high school mathematics assignments. The class also studies the historical development of the method for finding Pi, as students have fun and develop their enthusiasm for learning significant mathematics. This course is designed for students who have a sound understanding of algebraic concepts.

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

PHYSICAL EDUCATION

Advanced Outdoor Adventure

Course Code: ~Pe105

Description: The Advanced Outdoor Adventure class is an advanced physical education class. Participants are required to have already successfully taken Outdoor Adventure and have a background in group games and team-work 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 (will not be a certification program). Students are taught how to develop and facilitate team building and problem solving games, as well as leading 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, generadminal 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 meets for three terms and requires an additional commitment of approximately two hours per week before and after school.

Prerequisites:

Permission Required: Yes

Grades: 11,12

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 with some spins on each game. Volleyball with the beach ball and speedminton are some alternatives for this class. This is a great way to incorporate some fun into your day.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Basketball

Course Code: ~Pe120

Description: Basketball 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Exercise Physiology

Course Code: ~Pe190

Description: The objective of this cross-curricular course is to provide students with an anatomical outline of the human body as it relates to body movement conducted during physical activity such as exercise and sports. Students will participate in various sports, games, and exercise focused on different portions of musculature. This course consists of both classroom learning and physical exercise.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Independent Workout

Course Code: ~Pe165

Description: This course is open to students who will be working primarily independently in the fitness/multipurpose room. This course will allow students to perform their own workout schedule, routine, or other fitness program that will be approved by the teacher. This class is open to Pioneer or Prefect students only.

Prerequisites: Introduction to Nutrition and Fitness or Exercise Physiology

Permission Required: No

Grades: 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:

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:

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 best 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 term.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Pickle Ball

Course Code: ~Pe125

Description: Do you like ping-pong? Well, if you do, this is the game for you. There's not a lot of running or sweating in this activity, but it is a whole lot of fun. Pickle ball is played with a paddle and 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Sports History

Course Code: ~Pe200

Description: The objective of this cross-curricular course is to provide students with an overview of individual sports and their origin while also looking at specific time periods and historic events during which those sports developed. Students will participate in various sports originating from different time periods. This course consists of both classroom learning and physical exercise.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

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 the student 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

READING

The goals of the Reading Department are to help students who struggle with reading and writing develop skills to become independent readers, to improve academic reading, to foster a love of reading and to deepen understanding of elemental writing forms. The department offers a broad range of courses to meet the needs of students who have difficulty with decoding, reading comprehension, spelling, vocabulary and writing. Faculty members in the Reading Department work with students to develop the fundamentals necessary for further academic study, and the study of literature in particular.

As a Department, we do not believe in one instructional approach or program. Each teacher, based on his or her review of students' educational records plus classroom assessments and observations she or he conducts, designs lessons for students by drawing on a variety of approaches. Students working primarily on decoding skills have available to them a small group class or tutorial of Orton-Gillingham-based direct instruction, including the Wilson Reading System, tailored Orton-Gillingham teaching, the Lindamood Phoneme Sequencing Program, S.P.I.R.E., Structured-Word Inquiry, and other multi-sensory approaches based on Orton-Gillingham principles. When a student's primary need is to strengthen comprehension, faculty members draw upon programs such as Project Read (both Story and Report forms), Visualizing and Verbalizing, and other literature-based approaches.

In addition to courses focusing directly on decoding and comprehension, the Reading Department offers related courses that address vocabulary development, word attack strategies, spelling, writing and study skills— all necessary for academic learning. One or more of these courses may be taken alongside decoding and comprehension classes. A particular student may be concurrently taking Reading Development and a writing fundamentals course, such as Writing Workshop.

Some courses are as short as 1 term; others last 4, 6, 8 or occasionally, 9 terms. Many courses may be repeated for further development in those areas.

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 - how to analyze, synthesize and use critical thinking skills to understand fictional text, through learning the structure of narrative writing with the assistance of graphic organizers, vocabulary development, and class discussions. This course is a great starting place for those with weak reading comprehension skills, which can open up the world of literature for them. For students with comprehension skills in fictional text, who, with explicit instruction in story structures, could improve their understanding of this type of text. The course may be combined with Expository Reading Comprehension or taken singly.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Comprehension Imagery

Course Code: ~Rea125

Description: The Comprehension Imagery course covers the multi-sensory, explicit, sequential learning of the art of concept imaging in order to increase the ability to form pictures or movies in one's mind while reading. This skill expands language/reading comprehension, reasoning, critical thinking and expressive language skills. Students who have an underdeveloped ability to picture and remember scenes while they read, dramatically affecting comprehension, memory and critical thinking.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Reading Between the Lines

Course Code: ~Rea300

Description: Reading Between the Lines allows students to hone their skills at making inferences. In order 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 passages. When they have gained proficiency, they will apply the skill to short stories.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Reading Development

Course Code: ~Rea275

Description: The Reading Development course teaches the multi-sensory development of advanced decoding skills through understanding of linguistic structures (phonetic and meaning-based patterns in words of Anglo-Saxon, Latin, Greek, French origins, grammar), multi-syllabic word attack, vocabulary development, specific comprehension and encoding (spelling). Reading Development is for students who need further explicit instruction to improve decoding and related reading skills after Word Attack Skills or Reading Tutorial.

Prerequisites:

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/accuracy is below the norm and impairs memory and comprehension of what is read. This course may be taken more than once and for different term lengths.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

Reading Poetry

Course Code: ~Rea320

Description: Reading Poetry is designed to harness the unique auditory qualities of poetry to enhance students' phonemic awareness and overall reading fluency. Through the exploration of diverse poetic forms—from classic sonnets to modern free verse—students learn to recognize and appreciate the sounds and rhythms of language. Students explore how sound shapes meaning in poetry, engaging in activities that decode the relationship between letters and sounds. They move through group and individual exercises focused on isolating and manipulating phonemes, thereby sharpening their auditory skills. Fluency is developed through guided oral readings and performance workshops that encourage expressive and precise delivery. By analyzing poetic devices and the deliberate use of sound, students not only refine their technical reading abilities but also learn to appreciate the artistry of language while enhancing their interpretive skills.

Prerequisites:

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 the sequences of sounds and the 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 weaknesses in basic decoding skills, who may also have coexisting challenges that present difficulty for the student in making effective progress in a group of more than three students. 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 8

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:

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 organization structures of 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 that need support in collecting, synthesizing, and studying information from nonfiction academic texts. This course may be taken in combination with the Close Reading Strategies for Fiction course or taken singly.

Prerequisites:

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 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

SCIENCE

The goal of the Science department at Eagle Hill is designed to promote the following:

- developing an understanding of how and why phenomena of life, matter, and energy occur.
- building an appropriate framework of scientific concepts that can be applied to future endeavors
- developing a working vocabulary to describe scientific ideas.
- gaining proficiency in how to appropriately manipulate scientific data, ideas, and equipment.
- practicing applications of skills in a variety of problem-solving techniques and scientific methods.
- practicing an integrated or holistic relationship within the sciences, with other fields of study, and with current global applications.

In addition to learning about the findings of science and its methods, science provides a vehicle to develop learning and social skills in accord with Eagle Hill's overall philosophy. Our program and instructors actively address these difficulties with our students. Students do not only learn about science but also how to extract information from texts and reference sources, and their own acquired data from investigations they conduct. In laboratory and group work they do not just explore science but explore how to interact with others to achieve a task.

Our science facilities include eight specially equipped laboratory/classrooms, two each for chemical, physical, and biological sciences. The remaining two are general/health sciences rooms. We have a full range of equipment to support laboratory exercises in each of the science disciplines; physics, chemistry, biology, earth sciences, and health, and are equipped for microscale chemistry techniques, computer/probe interfaces for physical data collection, microbiology, and animal studies. 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 fish species. We avoid the use of simulation software when in person lab work is possible, because we prefer to have students investigate through real laboratory work and activities; however, we do make use of simulations as supplemental learning or for situations where in person lab work is impractical. We also do use software for data manipulation. Texts (including online or digital texts), media, lab equipment and materials are carefully selected for effective use with our students.

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 a 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 winter months, as well as bottle and sell honey to the local community.

Prerequisites:

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 following “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 between living things in the environment. Lab work is an integral part of student exploration of all topics in this course.

Prerequisites:

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 the science, including different experimental procedures used to obtain data, as well analytical tools designed to facilitate an understanding of the mechanisms by which chemical reactions progress. Students are also introduced to the core ideas of chemistry, including: the basis of atomic theory, including the history of the evolution of the idea, an appreciation for electron structure and the properties of different structures, culminating with a discussion of the modern day theory along with critical technological advancements such as the atomic force microscope; 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, and how these properties relate to the number and organization of electrons. 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; 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, along with usage of the log function. The chemical nature of salts is also 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 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 which students acquire in our standard physics course.

Prerequisites:

Permission Required: No

Grades: 10,11,12

Credits: 8

General Science

Course Code: ~Sci185

Description: General Science explores the fundamentals of physical interactions, Earth sciences, material sciences and life sciences. The basic skills needed for study in the sciences are emphasized and practiced frequently, including measurement, data collection, and data analysis.

Prerequisites:

Permission Required: No

Grades: 8

Credits: 6

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, as well as 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:

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:

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 and how scientific methodologies and modern technologies allow us to study what we can't see. A major theme of class will be the interaction of science and technology across time and how advancements in one area led to advancements in the other.

Prerequisites:

Permission Required:

Grades: 8,9,10,11,12

Credits: 3

Introduction to Chemistry

Course Code: ~Sci550

Description: This course is a full year introduction to the major topics of Chemistry. Topics address a wide range of core concepts in Chemistry. Some examples of material addressed include atomic theory, balancing chemical equations, the Law of Conservation of Mass, stoichiometry, and the concept of the mole. Additionally, other 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: Algebra I

Permission Required: No

Grades: 10,11,12

Credits: 8

Introduction to Marine Biology

Course Code: ~Sci210

Description: Introduction to Marine Biology emphasizes the principles, concepts, and terminology involving 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

Introduction to Marine Ecology

Course Code: ~Sci540

Description: This course emphasizes the principles, concepts, and terminology involving the study of marine ecology. Human impacts on the ocean environment are the central theme of this curriculum. Students will investigate how climate change impacts tropical and polar ocean ecosystems. Plastic pollution and unregulated fishing practices are also investigated. Students will collaborate on real world solutions that they can participate in to promote healthier ocean ecosystems. Note: This course addresses advanced concepts.

Prerequisites: Biology

Permission Required: No

Grades: 10,11,12

Credits: 1

Maker Science (1 Term)

Course Code: ~Sci445

Description: Maker science focuses on how materials respond to the manufacturing process, explored through a number of projects of the student's choice. Materials used vary from 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:

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 a number of projects of the student's choice. Materials used vary from 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:

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.

Prerequisites: Algebra II

Permission Required: No

Grades: 11,12

Credits: 8

Pre-IB Chemistry and Physics

Course Code: ~Sci555

Description: This course is a full-year introduction to the major topics of chemistry and classical physics. Throughout the course, students will develop analytical skills and apply mathematical techniques and concepts to solve problems involving physical and chemical processes and phenomena. Students will also develop practical laboratory skills including the collection, organization, and analysis of data obtained in laboratory experiments and activities.

Prerequisites: Algebra I

Permission Required: No

Grades: 10

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

SOCIAL EMOTIONAL WELLBEING

The goal of the social emotional wellbeing department is for students to generalize appropriate social skills into their everyday lives. The implementation of appropriate social skills is vital to future success, as the development of social support networks, the establishment of healthy relationships, and the formation of high self-esteem all depend on proper interpersonal communication. The social emotional wellbeing department recognizes that social skills deficits can be one manifestation of a learning (dis)ability, demonstrated through a lack of recognition of social cues, or an inability to express oneself clearly.

Social Emotional Wellbeing language skills are addressed in numerous ways at Eagle Hill. The primary arena for social skill instruction is the classroom setting. Skills are taught in the following sequence:

- Instruction of skill and its relevance
- Modeling
- Rehearsal
- Structured homework assignments

Step one of the teaching process examines the importance of a given skill in order to create an understanding of the skill's relevance to the student's success. Skills are broken down into their smallest parts and explained thoroughly. The purpose of this step is to allow the student to grasp the importance of a skill, thereby increasing their motivation to demonstrate the successful use of the skill in the future.

Steps two and three involve teacher and student demonstration of appropriate skill use. Modeling and rehearsal are crucial to this process due to the difficulty some students have in recognizing social cues independently. If students have not learned to recognize nonverbal signals up to this point in their lives, it would be unrealistic to expect them to do so presently without concrete instruction and subsequent practice. Direct coaching also serves to increase the student's level of comfort in using the new behavior. Upon appropriate rehearsal, structured homework lessons are assigned to students to practice skills outside the classroom. These assignments are significant for several reasons. They give the student the opportunity to practice the new skill and to "unlearn" the possibly inappropriate ones they have used until the point of instruction. Practice in actual social situations further increases the student's level of comfort with the skill, allows for faculty and peer feedback, and gives the student a chance to return to class with questions about the skill's implementation. Social emotional wellbeing homework also helps inform other faculty members about the efforts being made in the social realm with respect to a given student.

Of course, to implement skill intervention solely in the classroom would limit the possibility of generalization. Therefore, several programs have been developed to encourage the use of skills all day, every day. Faculty members are taught about appropriate social expectations for students diagnosed with specific learning (dis)abilities, gaining sensitivity toward an understanding of social deficits as a result.

The social emotional wellbeing department utilizes a grading system which takes into account a student's performance both in the classroom and the wider Eagle Hill community. The academic portion includes homework, class work, test/quiz, and effort/behavior grades. The performance grade is based upon faculty assessment of the designated skills for each class (detailed on the assessment rubric that accompanies end-of-term reports). An average of the two scores yields the overall grade.

Empowering students is another means by which to assist them in the development of healthy self-esteem and an increased sense of responsibility. The peer mentoring program was established to support young, new, or less socially savvy students by pairing them with student mentors. Mentors are chosen on the basis of their maturity, level of responsibility, and ability to act as positive role models. The mentor's position requires them to assist in transitions to campus life, to encourage appropriate social interactions, to establish additional outlets for socialization, and to be a member of the peer support team.

A final program trains upper-level social emotional wellbeing students in peer mediation techniques. Students who successfully complete Peer Mediation are eligible to become peer mediators.

Applied Psychology

Course Code: ~Pra260

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

Prerequisites: Biology

Permission Required: No

Grades: 10,11,12

Credits: 3

Child Development

Course Code: ~Pra155

Description: The Child Development course supplies those students interested in pursuing psychology in college an opportunity to work with a college text. Students cover various topics such as the three developmental processes, history of child development, different 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, as well as summaries of the text readings.

Prerequisites: Biology

Permission Required: No

Grades: 10,11,12

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 with a focus on terminology and the application of concepts. The course uses small group activities, lectures, discussions, films and other media.

Prerequisites: Biology
Permission Required: No
Grades: 10,11,12
Credits: 3

General Psychology II

Course Code: ~Pra255

Description: The General Psychology II course is designed to as a continuation of the topics presented in General Psychology I for students who wish to pursue seriously 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 and 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 Psychology I, Biology
Permission Required: No
Grades: 10,11,12
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 but not limited to 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:
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, and to encourage 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 towards cultivating empathy, resilience, and a growth mindset.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1,3

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, and to encourage 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 towards cultivating empathy, resilience, and a growth mindset.

Prerequisites:

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—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 door-handle, 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, and discussion, films on meditation, and if time permits, a tour of the Insight Meditation Society in Barre, Massachusetts.

Prerequisites:

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 and

followed by student rehearsal in class activities. Additional practice occurs in structured homework assignments with feedback given.

Prerequisites:

Permission Required: No

Grades: 10,11,12

Credits: 3

Psychology

Course Code: ~Pra200

Description: The Psychology 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, familiarity with writing techniques used in psychology, terminology and theories, and an overview of research methods. Through the study of human behavior and personality development along with activities and critical thinking skills, students gain an increased knowledge and understanding of themselves and others. The course uses small group activities, lectures, discussions, films and other media.

Prerequisites:

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 deeper exploration in 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:

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 deeper exploration in 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:

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. More important, students develop self-awareness pertaining to their own individual learning approaches, identify areas of academic strengths, and develop those 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:

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 to develop foundational skills that are important in maintaining healthy relationships and interpersonal communication. Skills are presented in an organic, conversation style with each individual student in mind. Skills are demonstrated, modeled, and followed by student rehearsal in class activities. The goal of the practice sessions is to establish the skills while also developing the students' level of self-esteem, confidence, and social emotional learning. Generalization is encouraged through increased confidence stemming from 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:

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 to develop foundational skills that are important in maintaining healthy relationships and interpersonal communication. Skills are presented in an organic, conversation style with each individual student in mind. Skills are demonstrated, modeled, and followed by student rehearsal in class activities. The goal of the practice sessions is to establish the skills while also developing the students' level of self-esteem, confidence, and social emotional learning. Generalization is encouraged through increased confidence stemming from 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:

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/or 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:

Permission Required: No

Grades: 8,9,10,11,12

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 but not limited to 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: 8,9,10,11,12

Credits: 3

Verbal Communication

Course Code: ~Pra125

Description: The Verbal Communication course develops enhanced verbal skills and strategies for students that 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

SPEECH & LANGUAGE THERAPY SERVICES

The main objective of this department is to provide quality speech and language therapy services to students so that they may maximize their ability to communicate with others and understand fully their personal learning style, strengths, weaknesses, and compensatory needs.

Speech and language therapy is provided by a certified and licensed speech and language pathologist based on individual student need. Services include testing, diagnostic therapy, and remedial interventions in one-to-one or small group sessions. Sessions address such issues as speech articulation, voice, stuttering and fluency, receptive and expressive language, learning style, memory enhancement, visual orientation, idioms, analogies, and listening comprehension. Pragmatic language skills and relaxation techniques are also targeted.

In addition, some students receive specific instruction in biofeedback methods to enhance their learning abilities. While severe hearing impairment is not generally an issue at Eagle Hill School, some students also receive instruction in aural rehabilitation. Consultation with administrators, teachers, and residential faculty is ongoing in accordance with learning profile goals and objectives. Faculty training surrounding issues related to speech and language development is also provided.

VISUAL AND PERFORMING ARTS

The EHS Arts Department educates students to have as wide and deep a sense as they can of the possibilities within their art-form, to understand the history and traditions of their chosen art-form, to develop their technique, and to work constructively with others. Through all this, the Department seeks to help students get in touch with their own imaginations, and to draw as deeply as they can from that wellspring of creativity.

Acting Shakespeare

Course Code: ~Vis110

Description: Students will learn techniques for understanding and acting 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. The student will come away from the class wanting more Shakespeare in his/her life.

Prerequisites:

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 in his book Acting. Students will gain an understanding of acting through the ages from Greek chorus to Victorian melodrama to modern theatre. 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 Techniques

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 3

Advanced Metal Work

Course Code: ~Vis770

Description: This class is designed for students that have explored basic metal working techniques and would like to develop or continue with metal working projects. The techniques practiced in previous classes will guide students through individual projects such as metal sculpting, casting, and silversmithing.

Prerequisites: Making with Metal or Women in Metal Work

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 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:

Permission Required: Yes, Molly Romaker

Grades: 8,9,10,11,12

Credits: 9

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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Basic Painting

Course Code: ~Vis710

Description: Students will be introduced to watercolor, acrylic and oil painting techniques. This course will go over basic drawing skills necessary for painting. This course will cover landscape, abstract and impressionistic style painting. Students will study how to create a successful composition using famous paintings to study from. This course will utilize a sketchbook for classwork and homework.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Beginning Drawing and Beyond

Course Code: ~Vis745

Description: This course will introduce the basic principles, elements, and practices of drawing, employing a wide range of subject matter and drawing media. The course will focus 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, etc. This course will also enhance the drawing fundamentals important for further creations like design, illustration, painting, and sculpture.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Block Printing

Course Code: ~Vis170

Description: This course utilizes the graphics process of block printing, which involves carving away part of a wood or rubber block and printing the remaining raised portion. The history of block printing and a study of block printing artist, M. C. Escher are on-going themes throughout the course.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

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 will 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 the desktop publishing computer room and the woodshop. While in the computer room, 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Dance Concepts

Course Code: ~Vis595

Description: Dance Concepts is a studio course that explores the dance activities of improvisation, technique, choreography/composition, and performance. Students will create and perform short and informal dance studies in a variety of styles and will use movement analysis, choreographic concepts, and personal reactions to write about and critique dance performances, both informal and professional. Students will engage in creative/critical conversations that challenge their awareness of arts making, individual creative voice, and the overall process of discovery. Close attention will be paid to an ethical creation of work and the authentic use of voice.

Prerequisites:

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 publisher's deadlines.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Digital Drawing

Course Code: ~Vis670

Description: Operating in Adobe Fresco, students will become familiar with the digital drawing software and related techniques. Students will explore a range of possibilities within the digital drawing world based in the Adobe Creative Cloud suite.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Film as Art

Course Code: ~Vis135

Description: Film as Art explores American and foreign films as an art form. The objective is to develop a keen, critical appreciation of films, from all over the world, as art. The method is to work with established criteria for judging and appreciating the film medium. Students view films and read the reviews of each film. Then each student writes his or her own review based on the established criteria.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

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 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. 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. Students will also be required to make preparatory sketches in their sketchbooks to plan their individual pieces.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Improvisation

Course Code: ~Vis105

Description: This course builds students' confidence and improvisational skills. They 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Introduction to Comic Making

Course Code: ~Vis760

Description: This course will cover 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. Students will have more freedom in the final project. Each project will feature a cycle of smaller assignments that focus on the following parts 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 to give students an overall sense of visual storytelling. Students will become familiar with each phase of creating a comic that can be helpful inside and beyond the classroom as well as for career-building as a professional artist in the future.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Introduction to Fashion Design

Course Code: ~Vis725

Description: Introduction to fashion design will involve rendering and sewing original designs. In the first half of the course students will be introduced to drawing with the croquis model and cover a range of rendering techniques and styles. Some of the materials will be marker, colored pencil and watercolor. Students will analyze fashion trends and find inspiration images to make mood boards that will inform their designs. The second half of the class will involve learning basic sewing techniques on a sewing machine. The class will also work on repurposing already made garments into unique new designs.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Introduction to Guitar

Course Code: ~Vis685

Description: This course will give students hands-on instruction in playing the guitar. The instruction will begin 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Introduction to Lighting

Course Code: ~Vis695

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

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Introduction to Technical Theater

Course Code: ~Vis570

Description: The Introduction to Technical Theater class will work with students who have an interest in exploring the world of backstage work. They 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 concert and production—in addition to less glamorous but equally important labor such as setting up risers and other furniture, and helping to keep equipment organized and well-maintained. This introductory class will be an opportunity to see if the Technical Theater Intern program is a good fit for the student.

Prerequisites:

Permission Required: Yes

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 the practice of singing, playing, acting, and dance, the course introduces students to a variety of performance opportunities and arts knowledge. Students will be 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 include but are not limited to: percussion and rhythm, instrumental practice, choral singing, spoken word, songwriting, improvisation, music in social justice, production, and dance, as well as brief introductions to some of the visual art offerings at Eagle Hill.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

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, we will look at these very questions and work to answer them. Using design process, 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, building prototypes, and pursue individual projects.

Prerequisites:

Permission Required:

Grades: 8,9,10,11,12

Credits: 3

Making with Resin

Course Code: ~Vis635

Description: Students in Making with Resin will 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 CNC woodworking machine to create unique resin molds.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

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 Limón and Martha Graham. By the end of the term, students will have learned a full-length dance utilizing these techniques.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Music Exploration

Course Code: ~Vis780

Description: In Music Exploration, students develop a beginning to intermediate understanding of music theory while exploring a variety of instruments, musical genres, and music history. This course introduces students to the variety of ways that melody and harmony function throughout music. Students also explore the latest in electronic music, music technology, and music from around the world. Class practice, discussion, and presentations are used to evaluate the exploration and understanding of each musical topic.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 6

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 worked on 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: Introduction to Performing Arts

Permission Required: No

Grades: 10,11,12

Credits: 3

One Act Competition

Course Code: ~Vis125

Description: An advanced acting course for students who want to be involved in dramatic competitions with other schools. Students would have to audition or be screened by me to take part in the class. The commitment would mean that students would agree to all that is required by the Massachusetts High School Drama Guild including attending technical rehearsals and Performances as scheduled by the Guild. In addition, they would make a commitment to attend all rehearsals called by the director. Students would receive state recognition for their efforts as well as having the experience of performing in a competitive venue.

Prerequisites:

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 3

Performing Arts Exploration

Course Code: ~Vis765

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

Prerequisites: Introduction to Performing Arts

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 3

Photoshop

Course Code: ~Vis185

Description: This course utilizes the computer graphics program, Adobe Photoshop. Targeted skills include scanning, digital photography, manipulation of photographs, collages and the basics of digital darkroom techniques.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

Pottery Lab

Course Code: ~Vis655

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

Prerequisites: Must have taken a visual arts class with F. Riendeau

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 1

Public Speaking

Course Code: ~Vis365

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

Prerequisites:

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:

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 designing 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:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Stage Combat

Course Code: ~Vis385

Description: In Stage Combat, students learn about stage combat and how to fight safely on stage. The two areas they will be working on are 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 terms of the trade. The class will train in the fighting techniques and will perform in front of an audience.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 3

Studio Art & Portfolio Preparation (juniors)

Course Code: ~Vis285

Description: The purpose of this course is to guide students in developing a portfolio that will be a representative of their most complete and expressive work. Students will be asked to 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 the opportunity to expand their individual ideas for pieces. Students will complete a significant amount of observational work to develop their

foundational art skills, but they will be 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: No

Grades: 11

Credits: 6

Studio Art & Portfolio Preparation (seniors)

Course Code: ~Vis285

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

Prerequisites: Junior Portfolio

Permission Required: No

Grades: 12

Credits: 6

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 our own plays, concerts and other functions and for visiting productions. Interns must be interested in technical theater and ready to be a responsible, reliable, devoted member of a team. Student interns participate in intensive training. Then, they take on responsibilities such as consulting with performing artists about their technical needs, designing and implementing lighting, sound, rigging, and set, and running the technical functions for each concert and production. Ongoing professional development helps interns hone their practice of technical arts. Interns work at scheduled times but must also be available as-needed. They earn academic credit, but more importantly, they benefit from the exciting experience, becoming expert in theatrical systems, collaborating with performing artists, and building unusually substantive resumes.

Prerequisites:

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 9

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 will be 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:

Permission Required:

Grades: 8,9,10,11,12

Credits: 3

Woodworking

Course Code: ~Vis155

Description: This course acquaints the 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:

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. Each student will complete a small box of their own design before the term's completion.

Prerequisites:

Permission Required: No

Grades: 8,9,10,11,12

Credits: 1

WORLD LANGUAGES

The goal of the World Languages department is to provide our students with an introduction to a variety of world languages. Students are instructed in all aspects of language including listening comprehension, speaking, reading, and writing. We believe it is critical for students to understand not only the mechanics of a foreign language, but also the culture associated with each language. Whenever possible, each introductory language course includes instruction in the culture of the regions where each language is spoken. Special emphasis is placed on introducing students to the values and traditions of the people whose language they are learning. Additionally, some introductory courses include the historical background on the regions where the language is spoken.

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 on the cultural practices distinct to those that approach the world from a visual perspective i.e., readiness for 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 are introduced to develop rudimentary conversational skills in ASL. Information about the Deaf Community and Deaf Culture will be introduced.

Prerequisites:

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 will familiarize students with deaf culture and social issues related to the deaf community.

Prerequisites: American Sign Language I

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:

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

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. They will 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:

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 students' first year of study and furthers their understanding of Spanish. Class activities include dialogues, discussions, readings, film viewing, computer activities, performance

tasks and essays. They will 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 the students' prior years of study and furthers their understanding of Spanish. Class activities include dialogues, discussions, readings, film viewing, computer activities, performance tasks and essays. They will 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

Spanish IV

Course Code: ~Wor155

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

Prerequisites: Spanish III

Permission Required: Yes

Grades: 8,9,10,11,12

Credits: 8