

# **AMITY HIGH SCHOOL**

## **Course Guide 2024-2025**



**[www.amity.k12.or.us](http://www.amity.k12.or.us)**

# Table of Contents

Page #	Page Description
3	Introduction
4	Academic Program
6	College Preparation
7	Class Selection Process
7	AHS Four Year Framework Plan
8	English Language Arts Program
11	Math Program
14	Science Program
17	Social Science Program
18	Physical Education Program
19	Health Program
20	Fine Arts Electives
22	Languages
23	Visual Arts Program
25	Agriculture Program
27	Woods Technology Program
29	Construction Trades Program
30	Other Elective Options
31	Other Elective Options
32	Other Elective Options

# Introduction

The purpose of this course description guide is to assist students and families in selecting the most appropriate courses during Amity High School academic program planning. Students and families are encouraged to use this guide to develop an education plan before beginning high school. All credit is awarded based on completion of minimum course requirements and seat-time requirements as established by the State of Oregon diploma requirements.

Listed courses are **projected** to be offered during the school year, if sufficient student interest exists and that necessary resources and staffing are available. Once scheduled, students will be expected to make a commitment to succeed in their classes. Students will have a one-week window to discuss any wishes to change schedules.

Amity High School operates a seven-period schedule, four days a week, from 7:50am to 3:25pm.

<b>Diploma Requirements</b>	
<b>Subject</b>	<b>Credit Requirements</b>
English	4
Math (3 years of Algebra 1 or higher)	3
Science (Physical Science and Biology Required)	3
Social Sciences (Global Studies and US History Required)	3
Fine Arts	3
Physical Education (PE A & B Required)	1
Health Education (General and Family Health Required)	1
Electives	6
Senior Project	Transcripted
Essential Skills State Testing	Transcripted
Career Related Learning Experiences	Transcripted
<b>Total Credits</b>	<b>24</b>

## **Career Related Learning Experiences**

All students who graduate from an Oregon Public High School must meet the following career related learning requirements:

1. Develop an education plan
2. Demonstrate an extended application (Senior Project)
3. Participate in Career Related Learning and Experiences (CRLES)

## **Essential Skills = State Testing (Waived indefinitely)**

All students who graduate from an Oregon Public High School must meet the following essential skills testing standards – skills deemed critical for future success: **Writing, Reading, and Math**

# Academic Program

A **Course Syllabus** will be distributed in every class at the beginning of the year, or term, describing the course content, grade system and expectations.

**Good attendance** is critical for success in high school. It is the parent's responsibility to ensure that students miss school only for essential reasons and to monitor their student's progress in school. The Parent-Student Handbook describes policies and procedures to follow when a student must be absent from school. Studies show that 90% attendance or better helps students be successful.

A **Transcript** is the official permanent academic record of a student's achievement in high school. It documents attendance, grade point average, class rank, grades, and academic awards, along with credits for all courses completed at AHS or transferred from another high school. Colleges and most scholarship programs require a transcript. All official school documents, including transcripts, will be sent by regular mail. Students who prefer certified, return-receipt service for transcripts and other school documents must prepay \$8 per mailing to cover processing and postage.

**Official grades and credits** are reported at the end of each semester and become part of the student's permanent transcript. Parents and students are advised to use the internet viewer to keep up with current grades and attendance. The parent internet viewer can be found on the district home website.

**Courses are graded** as follows:

- A = Exceptional performance
- B = Above average performance
- C = Average performance
- D = Completed minimum requirements
- F = Failure to complete minimum requirements
- P = Pass
- NP = No Pass (no credit is awarded and effects co-curricular participation)

**Pass/No Pass grades** are used for teaching aide, cadet & work experience classes; otherwise they require prior administrative approval.

**Academic Credit** is earned through completing minimum course requirements. Course credit is awarded in semester blocks only (0.5 credit per semester), provided the student earns a grade of 60% or better. See counselor for proficiency credit opportunities.

The **Grade Point Average (GPA)** is determined by adding all grade points earned and dividing by the number of graded credits. Each grade is worth:

GPA is computed at the end of each semester grading period. The cumulative grade point average is determined from the average of all grades earned in high school. Although GPA is an important factor in the college admissions process, the quality and rigor of a student's academic program is strongly considered. Some advanced courses carry an additional weight in GPA computation.

<b>GPA Points:</b> A = 4 points B = 3 points C = 2 points D = 1 point F = 0 points
---

<b>Weighted Courses:</b> A = 5 points B = 4 points C = 3 points D = 2 points F = 0 points
--

## Weighted Courses

- ❖ AP Calculus
- ❖ AP Chemistry
- ❖ AP Literature
- ❖ AP Statistics
- ❖ AP Studio Art
- ❖ AP US Modern History
- ❖ Anatomy & Physiology
- ❖ Honors Biology
- ❖ Honors English
- ❖ Honors Science
- ❖ Chemistry
- ❖ College Writing
- ❖ Physics
- ❖ Pre-Calculus

The **Honor Roll** is published two times a year and is based on the grades earned for each semester. Students must receive a minimum grade average of 3.5 for the semester and be enrolled in a minimum of five classes.

## Diplomas - ASD Board Procedure

All students in good standing who have successfully completed the requirements for a high school standard diploma, a modified diploma, extended diploma or a certificate of attendance may participate in graduation.

Students finishing their high school requirements at an alternative school site are not able to walk at Amity HS graduation day.

## AHS Honors Diploma

The Honors Diploma is an advanced academic benchmark students can obtain as they complete rigorous courses with high grades throughout their 4 years at Amity High School. This type of diploma is typically appreciated by both public and private four-year colleges.

Students must plan for advanced courses of study in a variety of subjects including English, Math, Science, Arts and Social Studies.

### Minimum Expectations:

1. Students applying for an Honors Diploma must have at least a 3.5 unweighted cumulative GPA.
2. Evidence of two or more advanced courses of study in multiple subject areas.
3. Assuming each qualifying course is offered by AHS, students must complete at least one qualifying course per academic year.
4. Applicants must have maintained the same rigor of classes during their time at AHS, including during their senior year.
5. Applicants must have maintained a strong attendance record during their years at AHS.

### Honors Application Evaluation:

- ❖ Applications will be reviewed by the Honors Diploma team at AHS after semester 7 grades are posted, and will be evaluated on the basis of: **class schedule** and **course rigor, volunteer and extracurricular activities, number of honors eligible courses taken, Grade-Point Average (GPA), class rank, and attendance record.**

## Advanced Courses of Study

- ❖ AP Calculus
- ❖ AP Chemistry
- ❖ AP Literature
- ❖ AP Statistics
- ❖ AP Studio Art
- ❖ AP US Modern History
- ❖ Anatomy & Physiology
- ❖ College Writing
- ❖ Chemistry
- ❖ Physics
- ❖ Pre-Calculus
- ❖ Honors Biology
- ❖ Honors English
- ❖ Honors Science
- ❖ Manufacturing Capstone

**Athletics and activities** are an important part of the total education plan for students. All students are encouraged to become involved in co-curricular activities that support their education plan. The Athletic Handbook describes academic and behavior standards required for participation and lists the athletic and activity programs offered.

## College Preparation

### College Credit Now (CCN) Courses

AHS has a partnership agreement with Chemeketa Community College for students to earn college credit for selected courses offered on our campus. Students will pay a \$25 fee for the entire academic year to complete any college courses available to them. We also have teachers certified through Willamette Promise to offer college credit transcribed through Western Oregon University.

### Oregon University System Admission (OUS)

Oregon University System requires that a student completes math through Algebra 2 and two credits in the same foreign language. Students must earn a C- grade or better in all college prep classes and meet GPA and SAT/ACT score requirements for admission to OUS schools. Visit [www.ous.edu](http://www.ous.edu) Enrollment Services to learn more about the Oregon University System schools and specific requirements. Chemeketa Community College offers free tuition for students achieving a 3.5 or higher GPA – see counselor for more details.

### NCAA Division 1 and Division 2 Initial Eligibility Requirements

Students who wish to play collegiate sports in NCAA Division 1 and Division 2, need to satisfy a number of requirements including minimum GPA, minimum SAT scores, and the completion of core courses in English, Math, Science, Social Studies, and additional academic areas. For complete information, students need to see the counselor and athletic director. NCAA Clearinghouse applications are available online at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net).

### Advanced Placement (AP) Courses

AHS encourages every student to plan to take at least one AP course during high school. Every student in the AP course takes an AP test in May. If the student completes the test with a high enough score, they're awarded college credit. AP course offering will vary each year depending on student interest, staffing and budgeting restrictions.

- |                |                 |                        |
|----------------|-----------------|------------------------|
| ❖ AP Calculus  | ❖ AP Literature | ❖ AP Studio Art        |
| ❖ AP Chemistry | ❖ AP Statistics | ❖ AP US Modern History |

### Early Graduation

Students who wish to accelerate their academic program and graduate one year prior to their senior year must complete an early graduation plan by May of their sophomore year (a minimum GPA of 2.75 is required). All early graduation plans must be approved by both the counselor and principal.

### Talented & Gifted Program

TAG students should contact the Counselor to explore the options available to meet student rate and level of learning based on individual needs and interests.

### Off-Site Release

Juniors and seniors who are on track for graduation may, with parent permission, apply for the privilege of being off-site for up to 2 periods of their school schedule. Any student who has an Off-Site release is required to leave the campus during that time. The only exception will be a pre-arranged note from a staff member stating when and where they would like to meet the student.

# Class Selection Process

## Step 1: Forecasting

In early spring of each year, the counselor visits classrooms to provide students information that will guide them in class selection for the following school year. Students will use Synergy and the provided forecasting sheets to choose their courses and alternatives.

## Step 2: Choosing classes

Students consult with classroom teachers, parents, and the counselor in making choices and planning educational programs. The counselor must review and approve all requests. Some classes require meeting specific grade, test score criteria, or class prerequisites.

## Step 3: Alternate Class Selection

It is not likely that each student will get his/her first choice in all classes. It is very important that students select alternate choices with as much thought and care as any other choice.

## Step 4: Scheduling

AHS administration makes many important decisions based on the forecast information from students (number of class sections, staffing, book needs, etc.) Because of this, students are **expected** to take the classes they request during forecasting.

## Step 5: Changing Classes – Deadlines and Criteria

AHS conducts class changes at registration in late August, and prior to semester 2. Changes are limited and subject to counselor, teacher, and principal approval.

## Add/Drops:

Class drops, or changes made after registration must be made within the FIRST week of school to avoid losing credit and/or receiving an F.

## Typical Four-Year Education Plan

Freshman	Sophomore	Junior	Senior
Math	Math	Math	Math or Elective
Physical Science	Biology	Science	Science or Elective
P.E. (A) & Health	Elective	P.E. (B) & Family Health	Elective
English 1	English 2 or Creative Writing	English 3, AP Lit or College Writing	English 4
Elective	Global Studies	US History	Government & Economics
Foreign Language / Fine Art Elective	Foreign Language / Fine Art Elective	Foreign Language / Fine Art Elective	Elective
Intro to AG/ Cabinetry, or Band	Adv. CTE course or Band	Elective	Elective

# Course Descriptions

## ENGLISH

**English Flowchart**

<u>Student Grade</u>	<u>College Prep Pathway</u>	<u>Community Coll. Path</u>	<u>Non-College</u>
<i>Grade 9 (Freshman)</i>	Honors English 1	English 1	English 1
<i>Grade 10 (Sophomore)</i>	English 2/Creative Writing	English 2/Creative Writing	English 2
<i>Grade 11 (Junior)</i>	College Writing/AP Literature	English 3 or College Writing or AP Literature	English 3
<i>Grade 12 (Senior)</i>	English 4 & Coll. Writing or AP Literature	English 4 & Coll. Writing or AP Literature	English 4

*College Writing is a College Credit Now Course for Writing 115/121*

*AP Literature is College Credit with a passing score. Each university will let you know if college credit is given for a score of a 3, 4 or 5.*

### ENGLISH 1

Grade Level: 9

Length of Course: Year

Prereq: None

In English I, students will focus on improving their reading and writing skills through relevant practice. Students will study literature in its various forms or genres and learn about the elements of fiction, reading select short stories, poetry, and long-work novels, such as The Odyssey and Romeo and Juliet. Students taking this course will also focus heavily on the writing process in order to produce persuasive essays, short stories, and poems.

### ENGLISH 2

Grade Level: 10

Length of Course: Year

Prereq: English 1

In this course you will study literature in its various forms or genres and come to discover what constitutes quality literature. You will explore the different types of nonfiction as you examine both personal narrative and the essay. You will investigate the structure and elements of the short story, the novel, and drama. You will learn about poetry, including the various types, structures, and metrical forms of verse. In conjunction with your study of literature, you will have the opportunity to write analytically about literature as you compose essays that reflect your growing understanding of literary works. You will also create original works of fiction, nonfiction, and poetry. You will increase your vocabulary and use it to strengthen your written and oral communication, as well as work on mastering spelling, grammar, and usage. Finally, you will achieve success working both independently and in small groups.

## **CREATIVE WRITING**

Grade Level: 10 - 11

Length of Course: Year

Prereq: English 1

Creative Writing is a year-long course designed for students interested in writing for publication. In this course, students will study literature in its various forms or genres, and personally discover what constitutes quality literature, investigating the structure and elements of the short story, novel, drama, and poetry. It will expose students to a variety of writing genres and require them to understand, analyze, imitate, and then produce original stories. The writing process will be emphasized in this course in order to develop writing skills, so students will write, revise, critique, and publish their own creative works.

## **ENGLISH 3**

Grade Level: 11

Length of Course: Year

Prereq: English 2

In this course you will study literature in its various forms or genres and come to discover what constitutes quality literature. You will explore the different types of nonfiction as you examine both personal narrative and the essay. Students will learn about poetry, including the various types, structures, and metrical forms of verse. In conjunction with your study of literature, you will have the opportunity to write analytically about literature as you compose essays that reflect your growing understanding of literary works. You will also create original works of fiction, nonfiction, and poetry. You will achieve success working both independently and in small groups. Furthermore, this course will further develop skills that will promote higher SAT/ACT scores through vocabulary building, literature analysis, and advanced writing techniques. Beginning in November students will learn how to research and write a lengthy research paper. Students will then compete in a classroom debate using the information and conclusions that they arrived at in their essays.

## **AP LITERATURE**

Grade Level: 11, 12

Length of Course: Year

Prereq: Teacher Recommendation

Credit: Elective or English Credit

This course will follow the curricular requirements outlined by the College Board. AP English Literature and Composition Course Description focuses on building skills necessary for college-level reading and writing. The texts include works from a variety of time periods and genres, and the writing assignments include in-class essays as well as formal process essays with several opportunities for revision. This is considered a college-level course, which means that students will be asked to read and analyze challenging, provocative, dense, and sometimes controversial material. Students will also be expected to come to class prepared to challenge themselves and others with interesting discussion points. The course design is based on the premise that the AP English Literature exam measures those skills that students need in order to be successful in college. Students will work together and explore a variety of reading and writing strategies proven effective in preparing for success on the Advanced Placement English Literature exam. The course will focus on improving skill sets related to confidence and facility with language; skill in critical reading, writing, and thinking; and success in academic endeavors. **All students are encouraged to take the AP exam in May.**

## **ENGLISH 4**

Grade Level: 12

#### Length of Course: Year

English 4 is a literature course, focusing primarily on classic heroic qualities found in literature. The subject matter in this course will deal with literature reflecting global cultures. Critical analysis of plot, character, and theme will be regularly explored in the process of developing critical reading skills. The content will focus on current events and issues, as well as literature. As a writing class, writing skills will be developed in numerous areas and styles. Students will need to demonstrate mastery in essay writing, research writing, and creative writing. Public speaking will be reinforced and practiced in a number of different activities, leading up to a test of mastery in May. Seniors will also spend time planning their future. Completion of the Senior Project will also be a major focus of this class, beginning with a research paper in the fall and culminating with speeches in the spring. This project is a graduation requirement for all seniors.

## Math

<b>COLLEGE BOUND SEQUENCE</b>	<b>ALGEBRA 1 SUPPORT SEQUENCE</b>	<b>MODIFIED DIPLOMA CLASSES</b>
<i>Algebra 1</i>	<i>Algebra A</i>	<i>Basic Math (repeatable)</i>
<i>Geometry</i>	<i>Algebra B</i>	<i>Integrated Math (flexible option)</i>
<i>Algebra 2</i>	<i>Informal Geometry</i>	<i>Construction Trades Math OR ↓</i>
<i>Pre-Calculus</i>	<i>Applied Algebra OR ↓</i>	<i>Algebra A</i>
<i>AP Calculus or AP Statistics</i>	<i>Construction Trades Math</i>	

### **ALGEBRA A**

Grades: 9 - 12

Length of Course: Year

Prereq: Pre-Algebra

Credit: 1.0 Math

The content will be the same as that taught in Algebra 1, yet at a different pace with an enriched presentation. The extra time will allow for in-depth considerations of topics which students usually struggle with, like linear equations and graphing, systems of equations and quadratic functions.

### **ALGEBRA B**

Grades: 9 - 12

Length of Course: Year

Prereq: Algebra A

Credit: 1.0 Math

The content will be the same as that taught in Algebra 1, yet at a different pace with an enriched presentation. The extra time will allow for in-depth considerations of topics which students usually struggle with, like linear equations and graphing, systems of equations and quadratic functions.

### **ALGEBRA 1**

Grade Level: 9 - 12

Length of Course: Year

Prereq: None

Credit: 1.0 Math

Content of this course includes the study of properties and operations of the real number system, solving and graphing first degree equations and inequalities, translating word problems into equations, operations with and factoring polynomials, solving simple quadratic equations, operations with exponents and simple exponential functions, and evaluating algebraic expressions. Assessment is based on student performance on tests, quizzes, tasks, and homework. Students are required to have a calculator for use in this class.

## **GEOMETRY**

Grade Level: 9 - 12

Length of Course: Year

Prereq: Completed Algebra 1 or Algebra A & Algebra B

Credit: 1.0 Math

Content in this course will include properties of plane and solid figures, deductive methods of reasoning and use of logic, geometry as an axiomatic system inducing the study of postulates, theorems, and formal proofs, rules of congruence, similarity, parallelism, perpendicularity, rules of angle measurement in triangles, including trigonometry, coordinate geometry, and transformational geometry, probability and statistics. Assessment is based on student performance on tests, quizzes, tasks, and homework. Students should plan to spend at least 30 minutes on math homework every day.

## **INFORMAL GEOMETRY**

Grade Level: 9 - 12

Length of Course: Year

Prereq: Completed Algebra 1, or Algebra A & B

Credit: 1.0 Math

Informal Geometry provides an introduction to basic geometric topics including language, classification and properties of polygons, congruence, similarity, parallel lines, area and volume, right triangle trigonometry, and coordinate geometry. This course uses an informal approach, which is not dependent on formal geometric proof. Assessment is based on student performance on tests, quizzes, tasks, and homework. Students should plan to spend at least 30 minutes on math homework every day.

## **APPLIED ALGEBRA**

Grade Level: 9 - 12

Length of Course: Semester

Prereq: Algebra 1, or Algebra A & B

Credit: 1.0 Math

This course delves into the practical applications of algebra. This course is designed for students needing to improve their algebra skills in order to take Algebra 2.

## **ALGEBRA 2**

Grade Level: 9 - 12

Length of Course: Year

Prereq: Completed Geometry with a C or higher

Credit: 1.0 Math

Content of this course includes linear functions and inequalities, quadratic functions and inequalities, exponential functions, logarithmic functions, rational functions, irrational functions, matrices, and conics. Assessment is based on student performance on tests, quizzes, tasks, and homework. Students should plan to spend at least 30 minutes of homework every day. Students are required to have a scientific calculator for use in this class.

## **PRE-CALCULUS**

Grade Level: 9 - 12

Length of Course: Year

Prereq: Completed Algebra 2 with a C or higher

Credit: 1.0 Math or 1.0 Elective AND College Credit Available

This college level class prepares students to take Calculus upon completion. Relations and functions are investigated graphically, numerically and symbolically. Exponential, logarithmic, polynomial, power, rational functions, trigonometry, vectors, polar coordinates, parametric equations and complex numbers are some of the topics explored. Students should plan to spend at least 30 minutes of homework every day. Students are required to have a TI graphing calculator for this class.

## **AP CALCULUS**

Grade Level: 9 - 12

Length of Course: Year

Prereq: Completed Pre-Calc with a B or higher

Credit: 1.0 Math or 1.0 Elective AND College Credit Available

This course is designed for those students who have demonstrated mastery of algebra, axiomatic geometry, and analytic geometry. Topics include functions, limits, differential calculus, and integral calculus. Students will be able to comprehend, apply and interpret these concepts graphically, numerically, and algebraically. A considerable amount of homework is required (at least one hour per night). Assessment is based on tests, quizzes, homework and participation. Students are required to have a TI graphing calculator for this class. All students are encouraged to take the AP exam in May.

## **AP STATISTICS**

Grade Level: 9 - 12

Length of Course: Year

Prereq: Completed Pre-Calc with a C or higher

AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions. All students are encouraged to take the AP exam in May.

# Science

**Physical Science and Biology are required courses of study.** Students are required to complete 3 credits of rigorous, inquiry-based, laboratory science classes in order to graduate high school. Four and two-year colleges strongly recommend that students take Biology, Chemistry and Physics. These laboratory science courses may be required for college admission.

## Typical Science Sequence Options

\*College credit available

**Bold** honors courses

	Freshman	Sophomore	Upper Level Electives	
Core Science Courses	Physical Science	Biology	Astronomy	<b>Anatomy and Physiology</b>
	<b>Honors Physical Science</b>	<b>Honors Biology</b>	<b>Chemistry</b>	<b>AP Chemistry*</b> <b>AP Biology *</b>
			<b>Physics</b>	<b>AP Physics*</b>

### PHYSICAL SCIENCE (HONORS AVAILABLE)

Grade level: 9 - 12

Length: Year

Prerequisite: None

Credit: 1.0 Science

This course has been designed to be both fun and challenging, providing students with a deeper understanding of their physical universe while empowering them to make predictions about the future based on known patterns and observations. Through lab work, investigations, demonstrations, activities, lecture, and discussion, students will learn about how matter and energy interact (Physics), and properties of matter and changes it undergoes (Chemistry). Much of the course work will be done in class, although students should expect at home practice as well as some long-term projects.

### BIOLOGY

Grade Level: 10-12

Length: Year

Prerequisite: Physical Science

Credit: 1.0 Science

This is a standard introductory Biology course. Topics will include cell biology, cellular transport, cellular respiration, transcription and translation, genetics, natural selection, development, classification and systems of living things, and ecology. Homework: 1-2 hrs/wk.

### HONORS BIOLOGY

Grade Level: 10-12

Length: Year

Prerequisite: Teacher Recommendation

Honors Biology aims to give students an introductory overview of biological concepts. The class will focus on exploring and making connections between each of the seven major characteristics shared by all living things on Earth. Units of study will include chemistry of life, cell anatomy, cellular transport, photosynthesis, cellular respiration, DNA, RNA, and protein synthesis, along with mitosis, meiosis, and genetics. The class is designed to challenge students to go more in depth in certain areas of study and to take part in diverse projects, experiments, and discussions earlier than they would in general biology.

***This course may only be taken as a replacement for Biology.***

***Physical Science and Biology are required courses of study.***

The following courses may be credited to the third-year science credit requirement.

**ANATOMY & PHYSIOLOGY (HONORS COURSE)**

Grade level: 11 - 12

Length: Year

Prerequisite: Completion of Biology and other science courses with grades of C or better

Credit: 1.0 Science

Anatomy and Physiology introduces the normal structure and function of the human body from the chemical level to the organ-systems level. The course is fast-paced and information-rich but is appropriate for anyone interested in life science and/or a future career in the healthcare field. Includes lecture, activities, demonstrations, student projects, and laboratory practice (including dissection). At the end of semester one, a C letter grade is required to remain in the class for the second semester.

**AP BIOLOGY**

Grade Level: 11-12

Length: Year

Prerequisite: B or higher in Biology; Completion of, or concurrent enrollment in, Chemistry

Credit: 1.0 Science or 1.0 Elective AND College Credits Available from AP exam

AP Biology is designed to be the equivalent of general biology course usually taken during the first year of college to major in science, health or the engineering field. AP Biology is open to all students who have completed a year of biology and chemistry and want to study the subject in a more rigorous and academically challenging setting. Students are responsible for reading each assigned section and completing practice problems for each unit on their own. Each unit includes chapter sections, practice sets, activities, quizzes, experiments and laboratory reports, and are concluded with a culminating exam. Ultimately the result will be readiness for the AP exam. All students enrolled in an Advanced Placement class will be expected to take the AP exam.

**ASTRONOMY**

Grade level: 11 - 12

Length: Year

Prerequisite: Completion of Physical Science or Biology with grades of C or better

Credit: 1.0 Science or 1.0 Elective

*Of all the sciences cultivated by mankind, Astronomy is acknowledged to be, and undoubtedly is, the most sublime, the most interesting, and the most useful- James Ferguson.* Topics covered include, but are not limited to: Astronomical Time Periods and Celestial Navigation; Rotational Motion and Universal Gravitation; Properties of Light and Matter; Telescopes and Technology; Special and General Relativity; Properties and Patterns of Stars; White Dwarfs, Neutron Stars, Black Holes and Gamma Ray Bursts; Dark Matter, Dark Energy and the Fate of the Universe; The Big Bang and the Beginning of Time.

**CHEMISTRY (HONORS COURSE)**

Grade Level: 10-12

Length: Year

Prerequisite: C or higher in physical science

Credit: 1.0 Science or 1.0 Elective AND 4 College Credits Available

Chemistry is an experimental science that is called the central science, as chemical principles underpin both the physical environment in which we live and all biological systems. Chemistry is a prerequisite for many other courses in higher education, such as medicine, biological science and environmental science. Introductory topics will include, but are not limited to, states of matter, atomic theory, bonding, periodicity, stoichiometry, solution chemistry, equilibrium, electrochemistry and acids and bases.

## **SPORTS MEDICINE**

Grade Level: 10-12

Length: Year

Prerequisite: None

This course provides high school students with a general overview of athletic training, sports medicine and its history. It includes introductory information about the AT's scope of practice: basic anatomy, injury prevention, treatment, rehabilitation, emergency injury management and administrative functions. This course is intended to help students gain an understanding of sports medicine, various associated disciplines and the role they play in the physically active community.

# Social Sciences

## **GLOBAL STUDIES**

Grade Level: 9, 10

Length of Course: Year

Credit: 1.0 Global Studies

Global Studies is the study of the relationship between people and the land. It focuses on two themes: how people use the earth and how the earth influences the way people live. Through this study, the student will begin to realize the physical limitations of the natural environment as well as the human possibilities of controlling and modifying it.

## **U.S. HISTORY**

Grade Level: 11

Length of Course: Year

Credit: 1.0 US History

U.S. History focuses on the people and events of America's past to gain a greater understanding of present day social, economic, and political conditions. Its scope extends from Reconstruction through contemporary issues and includes predictions for the future based on previous events. Central to the course is the study of the growth and development of the United States within a democratic context.

## **AP U.S. HISTORY**

Grade Level: 11, 12

Length of Course: Year

Prereq: 80% or higher in US History, or 90% on US History final.

Credit: 1.0 Elective

US History covers approximately 400 years of our nation's past and present. The first semester begins with English colonization of North America, working through to United States industrialization. The second semester centers on the 20th Century, continuing with the development of America as a world power and concluding with a study of current events and issues in American society. Emphasis is placed on reasons for historical events and the results of these events. Homework is extensive. Preparation for the AP Exam, in which students who pass can receive college credit, is also a focus of the course.

## **AMERICAN GOVERNMENT**

Grade Level: 12

Length of Course: Semester

Credit: 0.5 Government

American Government is a semester-long course required for graduation. This class is an overview of the creation, foundation, development, and execution of the American Government. It covers the structure and function of the American system of government, the roles and responsibilities of citizen participation in the political process, and the relationship of the individual to the law and legal system.

## **ECONOMICS**

Grade Level: 12

Length of Course: Semester

Credit: 0.5 Economics

This course will provide students with an understanding of the way in which society organizes its limited resources to satisfy unlimited wants. Students will be introduced to the major characteristics of the mixed market economic system in the U.S. and how basic economic questions are answered. We will also explore the area of personal finance as students prepare to graduate and take on greater financial responsibilities, decisions, and challenges.

# Physical Education

## **PHYSICAL EDUCATION A & B**

Grade Level: 9 (PE A), 11 (PE B)

Length of Course: Semester

Credit: 0.5 Physical Education

This activities course involves the basic rules, techniques, variations, and types of physical activities and sports. Units will include, but not be limited to: arena/flag football, volleyball, soccer, pickleball, basketball, hockey, bowling, ultimate frisbee, badminton, dance, softball, yoga, basic weight lifting and track & field. Emphasis at the beginning of units will be focused on technique, rules, and tactics of the game. Later emphasis will be placed on understanding of the games and cooperation and teamwork of participants. This course will give students an opportunity to participate in a variety of lifelong activities and is also designed to establish or enhance the student's physical fitness level. PE (A) is a prerequisite for PE (B) and Weight Training.

## **WEIGHT TRAINING**

Grade Level: 10 - 12

Length of Course: Year

Prereq: PE (A)

Credit: 1.0 Elective

This fitness course involves the basic guidelines, techniques, variations, and types of lifts and workouts. Units will include, but not be limited to: circuit training, different types of lifting sets (super, pyramid, drop, and straight), endurance, strength, power, speed, agility, cardiovascular, plyometric training, sport specific training, and individual workout plans. Emphasis at the beginning of units will be focused on technique, guidelines, schedules, and variations of the lifts. Later emphasis will be placed on students' understanding of the workouts and ability to create and maintain an individual plan. This course is an upper level course and will give students an opportunity to participate in a variety of healthy fitness activities. At the end of semester one, a C letter grade is required to remain in the class for the second semester.

## **ADVANCED WEIGHT TRAINING**

Grade Level: 11 - 12

Length of Course: Year

Prereq: Weight Training & Instructor Approval

Credit: 1.0 Elective

This advanced fitness course continues knowledge gained in Weight Training 1. The overall goal is to develop the skills necessary to maximize (athletic) performance and strength training techniques. Emphasis will be placed on students' understanding of their workouts and ability to create and maintain an individual plan. Implementation of different types of lifting sets (super, pyramid, drop, and straight), endurance, strength, power, speed, agility, cardiovascular, plyometric training, and sport specific training will be utilized. In addition, students will learn and analyze nutrition, hydration, and timing of meals to get a full understanding of improving and reaching their health and fitness goals.

# Health

## **HEALTH**

Grade Level: 9

Length of Course: Semester

Credit: 0.5 Health

General Health is a personal health and wellness course designed to help you learn to choose physically healthful behaviors that will enhance your entire life. The goal of the course is the transfer of learning into living. This will provide experiences with the skills you will need to make healthful behaviors a comfortable part of your daily life. The course content includes diet, food and nutrition; physical fitness and exercise; bullying, stress management; tobacco, alcohol and other psychoactive drugs; relationships, decision making, reproduction, parenting and parenting projects.

## **FAMILY HEALTH**

Grade Level: 11

Length of Course: Semester

Prereq: 0.5 Health

Family Health is a personal health and wellness course designed to help you learn to choose physically, mentally, emotionally, and socially healthful behaviors that will enhance your entire life. This course is designed to study in depth specific areas that relate to the health of the family and specific members of that family and the dynamics at work between them. You can expect a variety of lessons from vocabulary, discussions, group projects, class presentations, role-playing, guest speakers, quizzes, and tests. Opportunities to pursue individual interests related to the unit of study will be provided. The course content includes: emotional health; mental disorders; dating violence, the human life cycle from prenatal development, aging, death and dying, infectious diseases, and family dynamics in families of substance abuse.

# Fine Art Electives

## **CONCERT BAND**

Grade Level: 9 - 12

Length of Course: Year (may be repeated for credit)

Prereq: 2 years' experience

Credits: 1.0 Fine Art or 1.0 Elective

Concert Band is open to all students with two or more years experience on a band instrument. The Band plays Pep Band tunes at home football and basketball games, and may travel to State play-off games (this does not prevent students from playing these sports). In the winter, the band concentrates on beautiful and lively concert music to play at the many competitive festivals we travel to in the area. Qualifying bands continue on to the State Band Competition. The band also performs at all school assemblies, May Day, graduation, and other district functions. In addition, students will hone their solo capabilities through in-class mini-concerts, and competition at the District III Solo/Ensemble contest.

## **CONCERT CHOIR**

Grade Level: 9 - 12

Length of Course: Year (may be repeated for credit)

Prereq: None

Credits: 1.0 Fine Art or 1.0 Elective

Concert Choir is a mixed choir open to all High School students. The class will explore music from different countries, in different languages, and from different time periods. Emphasis will be upon improving vocal technique, diction, and breath control. The Choir will sing unison, 2-part, 3-part, and 4-part music. The Choir will perform 3 to 4 Concerts yearly at school and community functions and compete in Music District III Choir Festivals.

## **CULINARY ARTS**

Grade Level: 11 – 12

Length of Course: Semester

Prereq: None

Credit: 0.5 Fine Arts or 0.5 Elective

Fees: Could exceed \$20 – this is an expensive course to offer and the budget may not allow the additional expense. This course includes consumer education, nutrition and preparation of specific foods. Students learn to compare foods for quality, plan and prepare dishes, select and use equipment and understand principles of nutrition and cookery. Skills learned apply to vocational as well as personal use.

## **COMPUTER PROGRAMMING**

Grade Level: 9-12

Length of Course: Year

Prereq: Algebra 1

Credit: 1.0 Fine Art or 1.0 Elective

Computer Programming is an engaging course that explores a variety of basic computational thinking and programming concepts through a project-based learning environment. Every unit culminates in a comprehensive project and roughly 75% of student time is spent building projects and practicing the skills they are learning.

## **YEARBOOK**

Grade Level: 9 – 12

Length of Course: Year

Prereq: None

Credit: 1.0 Fine Art or 1.0 Elective

Yearbook is a production class in which students are tasked with producing a timeless, creative, and innovative publication which will record Amity High School's community, memories, and events. As a result, students will gain skills in the following areas: page design, publishing, copywriting, editing, photography, time management, teamwork, marketing, leadership, and organization. Students are evaluated on their ability to meet deadlines, the quality and quantity of work produced, and their ability to work with others. Students are also expected to make after school commitments to Yearbook in order to complete the tasks needed for publication, such as conducting interviews, taking photos of student activities and sports events, and working on assigned pages to meet deadlines.

# Languages (Fine Arts)

## **SPANISH 1**

Grade Level: 9 – 12

Length of Course: Year

Prereq: None

Credit: 1.0 Fine Art or 1.0 Elective

Introduction to the Spanish language and cultures through listening, speaking, reading, writing with an emphasis on speaking and listening. The class is activity based. There is a lot of interaction between students and teacher. Students will frequently work in pairs and groups often playing games and in speaking activities. Homework is assigned through Duolingo.

## **SPANISH 2**

Grade Level: 9 - 12

Length of Course: Year

Prereq: Completed Spanish 1 with a C or higher

Credit: 1.0 Fine Art or 1.0 Elective

Building on the knowledge gained in Spanish 1, the students will continue to increase their knowledge of Hispanic cultures and Spanish language skills through listening, speaking, reading, writing with an emphasis on listening and speaking. The class is activity based. There is a lot of interaction between students and teacher. Students will frequently work in pairs and groups often playing games and in speaking activities. Homework is assigned through Duolingo. The class continues to cover basic vocabulary and grammar.

## **SPANISH 3**

Grade Level 9-12

Length of Course: Year

Prereq: Completed Spanish 2 with a C or higher

Credit: 1.0 Fine Art or 1.0 Elective

This class is activity based. Students will be engaging in reading, writing, speaking, and listening activities. Activities include presentations, watching and listening to videos and playing games. The purpose of this class is to give students enough practice so as they are able to use what they have learned outside of class.

## Visual Arts (Fine Arts Electives)

<u>2D Visual Art Pathway</u>	<u>3D Visual Art Pathway</u>
Visual Art I	Ceramics I
Visual Art II	Ceramics II
Open Studio	Open Studio
AP Studio Art	AP Studio Art
Yearbook	3D-Design

### Visual Arts Pathway

The Visual Arts Pathway is divided into two focus areas: 2D Visual Art and 3D Visual Arts. Careers in the visual arts can widely vary. The 2D Visual Art pathway is for careers that heavily use drawing (either traditional or digital) and design principles like graphic designers, comic artists, painters, marketing, and traditional artists. The 3D Visual Art pathway will focus on production and artisan-based careers like ceramic artists, sculptors, installation artists, etc. The most stable visual art careers come from those working in industrial, corporate design, or advertising; however, others can choose to go into freelance, contract work, or entrepreneurship.

#### **VISUAL ART I**

Grade Level: 9 - 12

Length of Course: Year

Prereq: None

Credit: 1.0 Fine Art or 1.0 Elective

Students in Media Arts I will learn to draw, paint, mixed media and collage. Students will learn about the Art Elements and Principles of Design through pencil drawings. **This class has a \$15 fee for materials.**

#### **VISUAL ART II**

Grade Level: 10 - 12

Length of Course: Year

Prereq: Media Arts I

Credit: 1.0 Fine Art or 1.0 Elective

Students in Media Arts II will further develop technical drawing and problem-solving skills while incorporating their current understanding of the Art Elements and Principles of Design. **Not encouraged for students who have not taken Visual Art I. This class has a \$15 fee for materials.**

#### **CERAMICS I**

Grade Level: 9-12

Length of Course: Year

Prereq: None

Credit: 1.0 Fine Art or 1.0 Elective

Students will build boxes, clay creatures, mugs, and bowls with their hands! **This class will not be using the pottery wheels!** Students will become immersed in the terminology of ceramics and pottery. **This class has a \$25 fee for materials.**

## **CERAMICS II**

Grade Level: 10 - 12

Length of Course: Year

Prereq: Ceramics I

Credit: 1.0 Fine Arts or 1.0 Elective

**Students will be expanding their ceramic skills by learning how to throw on the pottery wheel.**

Students will learn how to center, pull, and create functional ceramic pieces. They also will learn how ceramic artisans better themselves and promote their craft. Students will also be participating in a spring wood firing located at the East Creek Anagama Kilns. **This class has a \$25 fee for materials.**

## **3D-DESIGN**

Grade Level: 9-12

Length of Course: Year

Prereq: None

Credit: 1.0 Fine Arts or 1.0 Elective

Students in this class will learn how to conceptualize and construct projects that can stand on their own two feet! Students will create a variety of art pieces that are assemblages, installations, sculptures, and much more. Students will learn how the Art Elements and Principles of Design can be used in a 3-Dimensional artwork. **This class has a \$15 fee for materials.**

## **OPEN STUDIO**

Grade Level: 11-12

Length of Course: Year

**Prereq: Visual Art I & II or Ceramics I & II**

Credit: 1.0 Fine Arts or 1.0 Elective

Students will be given a space to create a body of work in their chosen media or medium (ceramics, painting, spray paint, etc.). Students will be given a space to collaborate and experiment with a variety of media to create a body of work. This class will simulate an artist in residency or art studio in that students are given space to create. **This class has a fee of \$30 for materials.**

## **AP STUDIO ART**

Grade Level: 11-12

**Prereq: Visual Art I & II or Ceramics I & II and teacher recommendation**

Credit: 1.0 Fine Art or 1.0 Elective

**This course is designed for students with a serious interest in the visual arts.** This course enables students to refine their skills and create artistic works which will be submitted to the College Board for evaluation. The course will emphasize quality of work, media exploration, and problem solving. Students will also evaluate and create a breadth of experience in the formal, technical, and expressive aspects of the visual arts as seen in drawing, color organization, design, and sculpture. Students in AP Studio art have the opportunity to submit one or more portfolios per year in AP Studio Art 2-D Design, AP Studio Art 3-D Design, or AP Studio Art Drawing. In preparation of the course, students will be asked to complete summer homework, the summer before they are to take the AP Studio Art course. **This class is not encouraged for students who have not successfully completed and passed Media Arts I & II or Ceramics I & II. This class has a material fee of \$30 and the AP Exam Fee is covered by the school district.**

# Agriculture (Fine Arts Electives)

## Agriculture Pathway

Freshmen	Sophomore	Junior	Senior
Introduction to Agriculture (required)	Adv. Agriculture 1	Adv. Agriculture 2	Adv. Agriculture 3
	<b>Horticulture/ Plant Science</b>		<b>↔ Animal and Vet Science</b>
	Welding 1	Welding 2	

**BOLD** course count as science or fine art electives

### INTRODUCTION TO AGRICULTURE

Grade Level: 9 – 12

Length of Course: Year

Prereq: None

Credit: 1.0 Fine Art or 1.0 Elective

This course is an introductory course designed to expose students to different facets of the agriculture industry. Students will gain knowledge in animal science, plant science, leadership skills, public speaking, FFA opportunities, and agricultural mechanics. Instruction and student learning will occur through lectures, student projects, group discussions, hand-on experiences, FFA experiences, Career Development Events participation, and a Supervised Agricultural Experience program.

### ADVANCED AGRICULTURE 1, 2, 3

Grade Level: 10 – 12

Length of Course: Year

Prereq: Introduction to Agriculture

Credit: 1.0 Fine Art or 1.0 Elective

This course will build on the components learned in Introduction to Agriculture, and additional evaluation and research of most of the introductory topics learned in the first year. The use of Career and Leadership Development Events will be used for students to gain agricultural experiences. Students will make presentations and demonstrate parliamentary procedure to control common meeting situations. Students will be required to complete written applications of their choice as proof of their communication ability. Soil Science, Crop Science, Animal Science, Land Surveying, Competitive Speaking, Parliamentary Procedure, Ag Sales and marketing, officer training and committee participation will be available through membership in FFA. Students will develop record keeping skills through the use of AET Tracker software.

### HORTICULTURE

Grade Level: 10 – 12

Length of Course: Year

Prereq: Introduction to Agriculture

Credit: 1.0 Science or 1.0 Elective *\*College Credit Eligible*

This course is designed to help students develop a foundation for learning in the field of horticulture and plant systems. Students are exposed to a variety of activities and labs that provide hands-on learning and the application of industry standards as they relate to the floral and greenhouse industry. Students gain skills in growing, designing, and marketing a variety of greenhouse crops. Growing plants in our production greenhouse is a large part of the class. Student experiences include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting

## **WELDING 1 & 2**

Grade Level: 10 – 12

Length of Course: Year

Prereq: Introduction to Agriculture

Class Size Limit: 15

Credit: 1.0 Fine Art or 1.0 Elective

This class will allow you to learn many metal fabrication techniques. During the year long class, students will have the opportunity to learn various types of welding, including ARC, (SMAW) Wire Feed (GMAW) and Oxy-Acetylene welding and cutting (OAW). In addition to welding, students will learn to cut metal using a variety of machines and processes – including a plasma cutter. This is a hands-on class that requires students to produce and practice welding to build the skills needed to fabricate and design a metal project. Students will be using a multitude of the metal shop and welding skills as they build their projects. Students will need to create a working drawing, a bill of materials for each project, and follow all safety procedures during the manufacturing process. Students will be required to submit a portfolio upon completion of the course that records their progress and skills obtained through the experience. **This class has a \$20 fee for materials.**

# Woods (Fine Arts Electives)

## Woods Pathway

*\*3 completed courses required to be considered a Program Completer\**

Freshmen	Sophomore	Junior	Senior
<b>Cabinetry</b> (required)	<b>Introductory Woodturning</b> (option for 0.5 elective science spring term; yearlong enrollment required)	<b>Advanced Woodturning</b> (option for 0.5 elective science spring term; yearlong enrollment required)	
			<b>Manufacturing Capstone</b>

***\*Each class has a \$15 fee per term for materials.\****

### **CABINETRY**

Grade Level: 9 - 12

Length of Course: Year

Prerequisites: None

Credit: 1.0 Fine Art or 1.0 Elective

**Class Size Limit: 15**

Cabinetry is an entry-level course where students will develop a foundational knowledge of wood and woodworking skills with the tools, equipment, and technologies used in cabinetry and secondary wood manufacturing industries (such as plywood manufacturing, sawmills, or fine furniture production). This course is project-based and structured to facilitate student learning and confidence in the woodshop throughout the term. Proper technique, construction, and safety will be emphasized at all times. Service projects for the Amity community and School District will also be incorporated into curriculum to teach appropriate and applicable client interactions, the importance of craftsmanship, as well as adherence to project deadlines. Upon completing the full year of Cabinetry, a student should be able to identify and safely use the majority of the tools in this shop, have an understanding of standard joinery used in cabinetry and woodworking, and be knowledgeable in proper tool application and basic maintenance principles. They will also have an introductory understanding of forest biology, differences between common commercially used wood species, & wood identification. There is a possibility of traveling to local manufacturing facilities or having industry representatives to the classroom to discuss career opportunities in the vast field of trades & forest products.

### **INTRODUCTORY WOODTURNING**

Grade Level: 10 - 12

Length of Course: Year

Prerequisites: Cabinetry (earning a C or higher)

Credit: 1.0 Fine Art or 0.5 Fine Art & 0.5 Elective Science

**Class Size Limit: 15**

This intermediate course introduces students to the art and science of woodturning. A skill cherished by many, with historical roots in the worlds of production, craft, and art, woodturning prepares students to think about and interact with wood in a manner not experienced in Cabinetry or Manufacturing courses. Project-based learning serves as the foundation for developing effective turning techniques, problem solving skills, and critical thinking. Particular relevance will be placed upon wood science concepts, including tree biology, wood anatomy, chemical and physical properties of wood, moisture content, spalting, wood extractives, (& more!) with regard to how these attributes affect both form and function. Students will learn about the properties of wood and its uses through hands-on lessons, applied projects at the lathes, and assigned readings. Safe use and maintenance of the woodturning lathes as well as machines commonly used to assist turners, such as bandsaws, sanders, table saw, miter saw, and the drill press, will also be taught. This course provides the opportunity to earn 0.5 credit of elective science and 0.5 credit of fine art elective, or a full 1.0 credit fine art elective.

## **ADVANCED WOODTURNING**

Grade Level: 11 - 12

Length of Course: Year

Prerequisites: CABINETRY & INTRODUCTORY WOODTURNING (earning a C or higher)

Credit: 1.0 Fine Art or 0.5 Fine Art & 0.5 Science

### **Class Size Limit: 15**

Advanced Woodturning is focused on further developing the art and science principles established in Introductory Woodturning through applied laboratory activities and project-based learning. Particular relevance will be placed upon wood science concepts, including tree biology, wood anatomy, chemical and physical properties of wood, moisture content, spalting, wood extractives, (& more!) with regard to how these attributes affect both form and function. Students will learn advanced woodturning techniques, expanding their understanding of wood as a material and develop a more robust project portfolio. This course provides the opportunity to earn 0.5 credit of elective science and 0.5 credit of fine art elective, or a full 1.0 credit fine art elective.

## **WOODS MANUFACTURING**

Grade Level: 11|12; 10 with instructor approval only

Length of Course: Year

Prereq: CABINETRY **AND** WOODTURNING W/ SCI. 1|2 (full sequences) **-OR-** Instructor Approval

Credit: 1.0 Fine Art or 1.0 Elective

### **Class Size Limit: 16**

Woods Manufacturing is intended as an advanced woodworking course that introduces entrepreneurship and enhanced creativity to the classroom while emphasizing quality craftsmanship. Students in the manufacturing class will design, produce, market, and sell a wood-based item in the student-run Artisan Sale which occurs near the end of each term. They will have the opportunity to use varied technologies available in the shop, including all shop power equipment, woodturning lathes, CNC machines, and a laser engraver. Students will learn entrepreneurial skills along with gaining knowledge of small business needs, operations, and realities. This class provides a safe environment for students to try their hand at business production, with the opportunity to make money through the sales, if their product(s) perform well with consumers and clients. **All wood/specialty fasteners & products to be purchased by students from the shop.**

## **MANUFACTURING CAPSTONE**

Grade Level: 11 - 12

Length of Course: Year

Prerequisites: CABINETRY, INTRODUCTORY WOODTURNING, & ADVANCED WOODTURNING (earning a C or higher) | Instructor Permission Required if requesting for grade 11

Credit: 1.0 Fine Art or 1.0 Elective

### **Class Size Limit: 15**

Manufacturing Capstone is an advanced woodworking course designed to prepare students to create their own woodworking portfolios. This course is project-based with individual and class team projects functioning as the foundation for developing effective craftsmanship, business, and design skills. Students will receive a foundational understanding of different woodworking movements in history -- both domestic & international -- getting to practice techniques specific to various woodworking styles. Particular emphasis will be placed upon cultural and historical significance, design principles, and technique development. Readings and research activities will also be incorporated with applied learning in the woodshop. Entry into woodworking competitions and/or makers markets, as well as class field trips may occur.

## ADVANCED CAREER TECHNICAL EDUCATION STUDENTS

### CONSTRUCTION TRADES

Grade Level: 10-12

Prerequisite: Cabinetry or Welding

Credits: 2 credits - 1 Fine Art credit and 1 CTE Math credit

This course is intended for students who want to develop skills common to the construction trade. Students will receive in-depth instruction in the use of hand and power tools. They will be expected to perform practical exercises on a wide variety of equipment commonly used in the construction trade. Students will acquire basic drafting skills and learn to read and understand architectural plans. Students will learn the basics of materials use, cost, and estimating for a variety of projects. Students are expected to demonstrate their knowledge through the construction of required projects. A special emphasis is placed on safety for the construction trade.

### CONSTRUCTION TRADES ADVANCED

Grade Level: 11-12

Prerequisite: Construction Trades

Credits: 1.0 Fine Art

Advanced Construction Trades is split into two semesters, Electrical and Plumbing. Depending on industry availability, Electrical may be Fall or Spring semester with Plumbing in the alternate.

***Students in Plumbing:*** will use the skills from Construction 1/2 to learn how the different skilled trades work together to build a functioning home. Students will work with a plumber to learn how to properly layout and plumb a bathroom including supply lines and waste/drain lines with proper venting. Safely operating tools, reading plumbing plans and plumbing by code will be emphasized. Home Builders Institute Plumbing pre-apprentice certification will be offered to outstanding students.

***Students in Electrical:*** Students will take the knowledge from Construction and explore how trades work together to build a functioning home. Particular emphasis on Safety around electricity. Students will learn with a local electrician how to wire a residential breaker box, run and protect wires into receptacles, correctly wire a 3-way switch, electrical outlet and light. Reading Electrical plans and wiring by code will be emphasized. Home Builders Institute Pre-Apprenticeship Certification will be offered to outstanding students.

### DIGITAL DESIGN AND MANUFACTURING

Grade Level: 10-12

Prerequisite – None, Priority given to student who have taken a shop class (Woods, Metals)

Credits: 1.0 Fine Art

Students will learn to design and manufacture using Computer Aided tools. Students will work with local industry leaders on projects for the school and local businesses.

Machines students will learn include 3D subtractive technology (CNC) CO2 laser (Wood, Plastic) , and Fiber laser marker (Metal). Students will have the opportunity to learn Entrepreneurship skills as well, taking on projects for other students.

## Other Electives

### **STRATEGIC GAMES**

Grade Level: 10-12

Length of Course: Year

Prerequisite: None

Credit: 1.0 Elective

Class size: 25 Students

Strategic Games is a class created to aid in developing the muscles of the brain. The skills needed to play board games, like chess, involve different areas of the brain and directly contribute to the sharpening of the brain. Strategy games help to improve and hone thinking, decision making, and analytical skills. The process of analysis and assessment before making a "move" or decision can be greatly improved through strategic competition. Although the course has a strong proponent in Chess, games like checkers, Othello, cribbage, Risk, and others will be learned during the course of the year.

### **INTRODUCTION TO DRONES**

Grade Level: 11-12

Length of Course: Year

Prerequisite: None

Credit: 1.0 Elective

Class size: 10 Students

Through this course students will learn basic aerodynamics, drone mechanics and operating systems, and drone piloting techniques and setup. Part of the course is the FAA commercial drone pilot license curriculum, which preps the students who are 16 or older to be able to go and take the test at a government location, which could lead to pretty cool post-high school opportunities.

### **LEADERSHIP**

Grade Level: 9 – 12

Length of Course: Year (may be repeated for credit)

Prereq: None

Credit: 1.0 Elective

Class size: 25 students

Leadership students will develop leadership, teamwork, problem solving, and organizational skills. Assemblies, community service, staff appreciation, homecoming, student activities, public relations, and leadership training are just a few of the class activities. Leadership students will focus more on student-directed activities allowing students to create, execute, and evaluate their own ideas. Students will need to dedicate at least 30 hours outside the classroom to school/community service activities each quarter. Students must demonstrate commitment, personal responsibility, and focus to be successful in Leadership.

## **COOPERATIVE WORK EXPERIENCE**

Grade Level: 11, 12

Length of Course: Year (may be repeated for credit)

Prereq: **Counselor Approval Only**

Credit: 1.0 Elective or 2.0 Elective Depending on need

Amity High School students may participate in a structured work program in which they are provided opportunities to develop basic job skills, positive attitudes, and work habits through meaningful work experience related to their career interests.

### Requirements:

1. Must be a Junior or Senior in good standing for graduation
2. Strong attendance record - (90% attendance or principal's and coordinator's approval.)
3. Job must be a pre-approved work site & application completed.
4. Job must coordinate daily with the school schedule.
5. GPA of 2.0 or higher. (Less than 2.0 GPA only on principal and coordinator's approval.)
6. The school does not supply transportation.
7. Students cannot work for or be supervised by a parent.

**CWE is a pass/no pass course.** Participation in extracurricular activities does not change the basic requirements for earning credit. Students who are unable or unwilling to meet these requirements should not enroll in this program.

## **SUPERVISED AGRICULTURAL EXPERIENCE (SAE)**

Grade Level: 10 – 12

Length: Semester

Prereq: **Instructor's consent only (cannot be forecasted for)**

Credit: 0.5 or 1.0 Elective

This course is designed to provide students with an opportunity to earn credit for agriculture-related work experiences. Students are required to work closely with the instructor to maintain employment records and financial records, as well as skills and competencies learned. All of these records along with pictures will be used to complete a final portfolio. Students must submit a completed Agriculture Education Tracker (AET) portfolio in order to earn the credit. Students must complete a minimum of **130 hours** of documented work experience to earn **0.5 credit** or **260 hours** to earn **1.0 credit** over the course of the school year. The credit can be earned for summer experiences as well.

## **CADET TEACHER**

Grade Level: 10 - 12

Length of Course: Year (may be repeated for credit)

Prereq: Cadet Teacher signature and Counselor Approval

Credit: 1.0 Elective

Grading: Pass or Fail

Students have an opportunity to work with teachers and students at any of the three schools. Duties vary but may include helping a teacher prepare for classes, duplicating materials, grading, designing bulletin boards, filing, or actual one-on-one help with other students. There will be a limited number of workstations available, and students are not guaranteed placement. Requirements include: 2.0 GPA, 90% attendance, and approval of the counselor.

## **OFFICE AIDE**

Grade Level: 10 – 12 Recommended

Prereq: Office Manager Signature Required

Credit: 1.0 Elective

Graded Pass or No Pass

Both of these courses provide practical work experiences of common duties found in offices, including: filing, answering the phone, organizing and disbursing materials, designing bulletin boards, keeping records, etc. These workstations are limited, and students must have administrative approval.

### **STUDY HALL if there's staff availability**

Grade Level: 9 - 12

Credit: 1.0 Elective

Graded Pass or No Pass

The atmosphere will be extremely strict for this class. Only serious students should forecast for this class. Otherwise, students will be removed immediately for being disruptive.

### **TEACHER AIDE**

Grade Level: 10 – 12 Recommended

Prereq: Teacher Signature Required

Credit: 1.0 Elective

Graded Pass or No Pass

This assignment could include a variety of tasks including grading papers, duplicating materials, designing bulletin boards, filing, helping other students, etc., depending on the teacher's needs.

Evaluation is on a pass/no pass basis. Students must have approval from the teacher to be able to register as an aide. Teachers will pick from available students wanting to be a teacher aide.

### **ACADEMIC TUTOR**

Grade Level: 11-12

Credit: 1.0 Elective

Grades: 11, 12

Prerequisite: Teacher consent and academic criteria met.

Academic Tutors will assist other students in a class, tutoring them as needed with daily assignments, homework, exam preparation, study skills and group work. The student applicant must have received an "A" or "B" in the class in which they are tutoring. The student must be in good standing and must have at least a 3.0 GPA to receive consideration for this course. Academic Tutors are not needed in all courses. Emphasis is placed on entry level core classes. This is a graded class. Forms for this class are available in the Counseling office.

### **LATE ARRIVAL OR EARLY RELEASE**

Grade Level: 12

Credit: None

Seniors may have two periods total of a late arrival or early release if they are on track to graduate.

Students opting for this choice are not to be in the school building during the period they are released. If the student needs to work in the library occasionally during that release period, s/he needs a note from the teacher requiring the work.