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**CENTERVILLE HIGH SCHOOL**

# CENTERVILLE HIGH SCHOOL



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# ENGLISH DEPARTMENT



## COURSE PROGRESSION

Please note that the chart below represents a typical pathway **most** students take. We realize that there may be circumstances that can cause variations to each student’s course selections. If other circumstances exist, please talk with your current English teacher first, then your advisor, and then your guidance counselor during the scheduling process.

- Please use this chart and course descriptions to make the appropriate course selection.
- Talk with your teachers, your advisor, and your guidance counselor.
- Please pay attention to course prerequisites. They will be listed in the course description.

Each student needs **4 English** credits to graduate. It is strongly recommended that all students, regardless of course progression, take an English class **each** year of high school.

### 9th Grade

9th Grade Course Progression (Standard)	9th Grade Course Progression (Advanced)	9th Grade Electives (In addition to)
English 9 ~ Or	Honors English 9	Public Speaking [Semester] ~ Or
		Debate [Semester]

### 10th Grade

10th Grade Course Progression (Standard)	10th Grade Course Progression (Advanced)	10th Grade Electives (In addition to)
English 10 ~ Or	Honors English 10 ~ Or	Public Speaking [Semester] ~ Or
	Honors AP Seminar ~ Or	Debate [Semester]

ENGLISH DEPARTMENT COURSE PROGRESSION

*Continued*

**11th Grade**

11th Grade Course Progression (Standard)	11th Grade Course Progression (Advanced)	11th Grade Electives (In addition to)
English 11 ~ Or	Honors AP English Literature and Composition ~ Or	Film Analysis [Semester] ~ Or
	Honors AP Seminar ~ Or	Public Speaking [Semester] ~ Or
	ENG 1100 (CCP Course) ~ Or	Debate [Semester] ~ Or
	ENG 2040 (CCP Course) ~ Or	Literature in Popular Culture [Semester] ~ Or
	Honors AP English Language and Composition	Creative Writing [Semester]

**12th Grade**

12th Grade Course Progression (Standard)	12th Grade Course Progression (Advanced)	12th Grade Electives (In addition to)
English for the Real World ~ Or	Honors AP English Language & Composition ~ Or	Film Analysis [Semester] ~ Or
Environmental Literature ~ Or	Honors AP Seminar ~ Or	Public Speaking [Semester] ~ Or
Contemporary Literature ~ Or	AP Literature & Composition ~ Or	Debate [Semester] ~ Or
Film Analysis [Semester] ~ Or	ENG 1100 (CCP Courses) ~ Or	
Public Speaking [Semester] ~ Or	ENG 2040 (CCP Courses)	Creative Writing [Semester] ~ Or
Debate [Semester] ~ Or		
Creative Writing Standard [Semester]		

# ENGLISH DEPARTMENT COURSE DESCRIPTIONS

## ENGLISH 9

### ENGLISH 9

Year course / 1 credit (Lab Fee)  
English Dept. (English Credit)  
Course Code - 1006

A comprehensive college prep course with two basic emphases: the study of literature of various genres and the study of composition through the writing process. Composing expository and opinion paragraphs and multi-paragraph essays receives primary attention. Incorporated into the program is work with vocabulary, grammar and usage, speaking and listening, and basic MLA skills. Before the completion of the scheduling process, the English teacher will recommend the appropriate English level for each student.

### HONORS ENGLISH 9

Year course / 1 credit (Lab Fee)  
English Dept. (English Credit)  
Course Code - 10091

Honors English 9 is designed for students who exhibit above-average ability and exceptionally high interest in English who have also demonstrated a history of exemplary achievement and ability to work independently. This is a comprehensive course with two basic emphases: the study of literature of various genres and the study of composition through the writing process. Composing expository and opinion paragraphs and multi-paragraph essays receives primary attention. Incorporated into the program is work with vocabulary, grammar and usage, speaking and listening, and research skills. Before the completion of the scheduling process, the English teacher will recommend the appropriate English level for each student.

## ENGLISH 10

### ENGLISH 10

Year course / 1 credit (Lab Fee)  
English Dept. (English Credit)  
Course Code - 1015

A comprehensive college prep course with two basic emphases: the study of literature of various genres and the study of composition through the writing process. Composing expository, narrative, and opinion paragraphs and papers receives primary attention. Incorporated into the program is work with vocabulary, grammar and usage, speaking and listening, and research skills. Research paper is required. Before the completion of the scheduling process, the English teacher will recommend the appropriate English level for each student.

*Students enrolled in this course are required to take an End of Course State Assessment.*

### HONORS ENGLISH 10

Year course / 1 credit (Lab Fee)  
English Dept. (English Credit)  
Course Code - 1021

Designed for students who exhibit above-average ability and exceptionally high interest in English who have also demonstrated a history of exemplary achievement and ability to work independently. This is a comprehensive course with two basic emphases: the study of literature of various genres and the study of composition through the writing process. Composing expository and opinion paragraphs and papers receives primary attention. Incorporated into the program is work with vocabulary, grammar and usage, speaking and listening, and research skills. Research paper is required. Prerequisite: English 9. Before the completion of the scheduling process, the English teacher will recommend the appropriate English level for each student.

*Students enrolled in this course are required to take an End of Course State Assessment.*

# ENGLISH 11

## **ENGLISH 11**

**Year course / 1 credit (Lab Fee)**

**English Dept. (English Credit)**

**Course Code -1025**

A comprehensive college prep course with two basic emphases: a chronological study of American literature and the study of composition through the writing process. The program includes a study of philosophies and representative American authors and works of various genres. Composition is frequently based on the literature and primary emphasis is placed on writing expository and opinion paragraphs and papers. Incorporated into the program is work with vocabulary, grammar and usage, speaking and listening, and research skills. Research paper/project is required. Before the completion of the scheduling process, the English teacher will recommend the appropriate English level for each student.

## **HONORS AP ENGLISH LITERATURE & COMPOSITION**

**Year course / 1 credit (Lab Fee)**

**English Dept. (English Credit)**

**Course Code - 1033**

A course designed for students who exhibit above average ability and exceptionally high interest in English and who have demonstrated exemplary achievement and ability to work independently. The course engages students in the careful reading and critical analysis of fiction and poetry. Through close reading, students deepen their understanding of the way writers use language to provide meaning for their readers. Students consider a work's structure, style, and themes as well as figurative language, imagery, symbolism, tone, etc. The course includes intensive study of representative works from various genres and time periods, including American and British literature. Writing assignments focus on the critical analysis of literature; instruction includes attention to developing and organizing ideas in clear, coherent, and persuasive language. Research paper is required. Students should take the AP English Literature and Composition exam in May. Recommendation: English 10 Honors and teacher recommendation. Before the completion of the scheduling process, the English teacher will recommend the appropriate English level for each student.

## SENIOR ENGLISH ELECTIVES

### **ENGLISH FOR THE REAL WORLD**

Year course / 1 credit (Lab Fee)

English Dept. (English Credit)

Course Code - 10371

An elective English course for 12th grade students who are interested in real-world application of language arts skills. The class will hone professional writing skills that will translate to resumes, cover letters, business memos, and communication documents. Students will practice job interviewing skills and learn how to navigate online job databases.

### **CONTEMPORARY LITERATURE**

Year course / 1 credit (Lab Fee)

English Dept. (English Credit)

Course Code - 1045

Contemporary Literature is a college-preparatory English course intended for college-bound seniors. Students will engage with a variety of texts in the pop-culture, contemporary, and environmental genres. Issues such as technology, war, politics, immigration, food, globalization, business, medicine, nature and law are examined through the study of non-fiction, fiction, media, and poetry. Students will produce writing in response to their readings. Integrated into the curriculum is work with vocabulary, grammar, and usage, including ACT/SAT preparation. A research paper or project is required. Before the completion of the scheduling process, the English 11 teacher will recommend the appropriate English level for each student.

### **HONORS AP ENGLISH LANGUAGE & COMPOSITION**

Year course / 1 credit (Lab Fee)

English Dept. (English Credit)

Course Code - 1051

Designed for junior and senior students who exhibit above average ability and exceptionally high interest in English and who have demonstrated exemplary achievement and ability to work independently. The course engages students in becoming skilled readers of non-fiction prose written in a variety of time periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. The course allows students to write in several forms — narrative, expository, argumentative — on many different subjects, from personal experiences to public policies to popular culture. Past topics have included advertising, gender, education, abolition, technology, punishment, science, food, nature, and politics. The overarching purpose is to enable students to write effectively and confidently in their college courses across the curriculum and in their professional and personal lives. Students will read from diverse genres such as autobiography, biography, history, criticism, essays, and journalism. Past books have included *1984*, *The Case against Perfection*, *The Immortal Life of Henrietta Lacks*, and *In Cold Blood*. We will also devote class time and writing conferences to the college application essay. Students should take the AP English Language and Composition exam in May. This course is intended for the college bound student.

# ENGLISH ELECTIVES

## **HONORS AP SEMINAR**

Year course / 1 credit (Lab Fee)  
English Dept. (English Credit)  
Course Code - 1060

The first course in the AP Capstone experience, this is an interdisciplinary course that encourages students to demonstrate critical thinking, collaboration, and academic research skills on topics of the student's choosing. To accommodate the wide range of student topics, typical college course equivalents include interdisciplinary or general elective courses. Develop and practice the skills in research, collaboration, and communication that you'll need in any academic discipline. You'll investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team. Students should take the AP exam in May. This course is recommended for students in 10th, 11th, and 12th grades.

## **CREATIVE WRITING**

Semester course / .5 credit (Lab Fee)  
English Dept. (English Credit)  
Course Code - 1091

A semester course for juniors and seniors interested in developing their writing voices through the study and application of fictional prose, creative nonfiction, drama, or poetry. Students will develop their creative writing skills by participating in writing and revision workshops. They will refine their craft and style after participating in group discussions of student-written pieces. Students will read a variety of published stories, essays, and poems in terms of craft and learn how to apply the techniques of other writers to their writing.

## **FILM ANALYSIS**

Semester course / .5 credit (Lab Fee)  
English Dept. (English Credit)  
Course Code - 10731

An elective English course for juniors and seniors who are interested in analyzing films in order to develop critical thinking and writing skills. We begin the year studying films in much the same way we study books – examining how plot, characterization, theme, symbolism, setting, and language create meaning in stories. Then, we learn the specific language of film – how directors can create another level of meaning through lighting, sound, editing, special effects, casting choices, color, etc. Finally, we break down films according to genre – how the style and circumstances of the film shape meaning. There is a reading and writing component to each film. Additionally, all films are viewed and discussed in class; therefore, attendance is a strong component of success in the course.

## **READING BRIDGES 9**

Placement from English 9 teacher  
Year course / 1 credit  
English Dept. (English Credit)

Bridges Reading is a one-year course taken with teacher placement, designed to be taken concurrently with English 10. It is a one-year course aligned with the Ohio Learning Standards for English and topics for students who need continued preparation with English skills and concepts.

## VERBAL COMMUNICATION COURSES

### *(English Electives)*

Because the spoken word is widely recognized as necessary to all levels of communication from interpersonal relationships to professional relationships, it is essential that today's students are trained in spoken communication skills as well as educated in academic subject areas. The following course offerings are designed to help students at Centerville High School develop a variety of communication skills that they will need to succeed at all levels of our modern society.

#### **DEBATE**

Semester course / .5 credit (Lab Fee)

English Dept. (English Credit)

Course Code - 1075

The emphasis in this course is on rational decision making which is self-formulated and self-learned. Through in-depth research of significant social, political, and economic issues, the student will learn to organize research findings into a meaningful and persuasive presentation and thus perform in a variety of situations, including the classroom, tournament setting, and mock trial. The most holistic course in the curriculum, this course combines crucial critical thinking skills with English, economics, social studies, history, political science, and current events. Debate is open to students in grades 9-12.

#### **PUBLIC SPEAKING**

Semester course / .5 credit (Lab Fee)

English Dept. (English Credit)

Course Code -1094

This semester-long public speaking course provides a low-stress setting in which students will gain poise and confidence as they learn the basic elements of vocal and physical speech delivery. Students will write and present speeches, including informative speeches, persuasive speeches, and special occasion speeches. Emphasis will be placed on research, preparation, delivery, evaluation, and impromptu speaking. Effective oral communication enhances one's success in high school, college, and beyond. This class may be taken at any time in the student's high school experience. Public Speaking is open to students in grades 9-12.

## ENGLISH COLLEGE CREDIT PLUS COURSES (CCP)

The courses below are College Credit Plus Courses (CCP). These courses count for both high school and university credit. Students need to fill out an Intent to Participate form, apply to Wright State University, and meet all university requirements even though they are taught at CHS by our instructors. For more information about College Credit Plus, please visit our CHS CCP webpage: <https://chs.centerville.k12.oh.us/guidance/ccp>

**FERPA policy:** When considering these courses, students and families should understand that the grading policy is different. In a typical CHS class, students and parents may view grades via the Home Access Center. **That is not the case for these classes.** As a student of a post-secondary institution, the student's academic record is protected by the Family Educational Rights and Privacy Act of 1974 (FERPA). FERPA is a federal privacy law that gives students protections with regard to the release of their educational records, grades, disciplinary records, personal information, campus housing assignment, and class schedule.

Once a student reaches 18 years of age **OR** attends a postsecondary institution, he or she becomes a "FERPA eligible student" and all rights formerly given to parents under FERPA transfer to the student.

In short, **regardless of the age of the student, teachers of College Credit Plus classes cannot release information or discuss the student's educational record with the parent or guardian, nor will there be access to grades through Home Access Center until after the course grade is posted through the university.**

### **(CCP) ENG 1100: Academic Writing & Reading**

Semester course / 1 HS credit (3 college credits)

English Dept. (English Credit)

Wright State University Course

Course Code - C12000

This semester-long College Credit Plus English course offered in partnership with Wright State University introduces students to principles of effective written communication and critical reading and stresses invention, drafting, revising, editing, and self-assessment, along with effective critiquing and collaborating.

Upon successful completion of the course, students receive 3 semester hours of college English credit and 1 full credit of high school English. Grading is on the Honors Scale. As with all CCP courses, this class is offered at no cost to the student. If, however, a student fails the course, he or she will be financially responsible for paying the cost. Students must apply and be considered college ready by Wright State University in order to take the course.

### **(CCP) ENG 2040: Great Books: Literature**

Semester course / 1 HS credit (3 college credits)

English Dept. (English Credit)

Wright State University Course

Course Code - C12002

This semester-long College Credit Plus English course offered in partnership with Wright State University is an introduction to interpreting literature, using works from various periods and cultures, viewed in their social and historical contexts and read for their enduring interest.

Upon successful completion of the course, students receive 3 semester hours of college English or Humanities credit and 1 full credit of high school English. Grading is on the Honors Scale. As with all CCP courses, this class is offered at no cost to the student. If, however, a student fails the course, he or she will be financially responsible for paying the cost. Students must apply and be considered college ready by Wright State University in order to take the course.

## OTHER ENGLISH COURSES

*\* These classes can only be scheduled with administrator or counselor approval. \**

### **ENGLISH AS A SECOND LANGUAGE**

Semester course / .5 credit

English Dept. (English Credit)

Course Code - 1081, 1084, 1087

ESL English is designed for English learners who are at a beginning, or early intermediate, level of English proficiency as defined by the Ohio Department of Education & Workforce. The emphasis of the course is on promoting the ongoing development of English Language Arts curriculum concepts, vocabulary, and skills in all four language modalities (speaking, listening, reading, and writing). This course follows the Ohio Department of Education & Workforce Learning Standards for ELA as well as the Ohio English Language Proficiency Standards. Prerequisite: Designation as an English learner.

ESL Academic Support is designed to assist English learners (as defined by the Ohio Department of Education & Workforce) with content area texts, assignments, and/or assessments. Any current, or recently exited, English learner may be in ESL Academic Support. Prerequisite: Current or former designation as an English learner.

# MATHEMATICS DEPARTMENT



## Course Progression

Please note that the chart below represents a typical pathway **most** students take. We realize that there may be circumstances that can cause variations to each student's course selections. If other circumstances exist, please talk with your current math teacher first, your advisor, and then your guidance counselor during the scheduling process.

- Please use this chart and course descriptions to make the appropriate course selection.
- Talk with your teachers and your guidance counselor.
- Please pay attention to course prerequisites. They will be listed in the course description.

Each student needs **4 math** credits to graduate.

### 9th Grade

9th Grade Course Progression	9th Grade Course Progression	9th Grade Course Progression	Course
<i>Without Algebra or Geometry at the middle school level</i>	<i>With successful completion of <u>Algebra</u> at the Middle School</i>	<i>With successful completion of of <u>Algebra</u> &amp; <u>Geometry</u> at the Middle School Level</i>	
Algebra 1	Geometry	Algebra 2 ~ Or	
		Honors Algebra 2	

### 10th Grade

10th Grade Course Progression	Course	10th Grade Course Progression	Course	10th Grade Course Progression
<i>Successfully completed <u>Algebra 1</u> your freshman year</i>		<i>Successfully completed <u>Geometry</u> your freshman year</i>		<i>Successfully completed <u>Algebra 2</u> or <u>Honors Algebra 2</u> your freshman year</i>
Geometry		Algebra 2 ~ Or		Pre-Calculus ~ Or
		Honors Algebra 2		Honors AP Pre-Calculus
				-and (optional)- Honors AP Statistics
				-and (optional)- Honors AP Computer Science

MATHEMATICS DEPARTMENT COURSE PROGRESSION

*Continued*

**11th Grade**

- Quantitative Reasoning, Statistics & Probability, and the Discrete Math / Computer Science courses are Algebra 2 equivalent courses. These courses are not designed for a pathway to a 4-year college.

11th Grade Course Progression	11th Grade Progression	Course	11th Grade Course Progression
<i>Successfully completed <u>Geometry</u> your sophomore year</i>	<i>Successfully completed <u>Algebra 2</u> or <u>Honors Algebra 2</u> your sophomore year</i>		<i>Successfully completed <u>Pre-Calculus</u> or <u>Honors AP Pre-Calculus</u> your sophomore year</i>
Quantitative Reasoning ~Or	Pre-Calculus ~ Or		Honors Calculus
Statistics & Probability [Semester course] -and- Discrete Math / Computer Science [Semester course] ~Or	Honors AP Pre- Calculus ~ Or		Honors AP Calculus BC ~ And/Or
Algebra 2 ~ Or	-and (optional)- Honors AP Statistics		Honors AP Statistics
Honors Algebra 2	-and (optional)- Honors AP Computer Science		Honors AP Computer Science

MATHEMATICS DEPARTMENT COURSE PROGRESSION

*Continued*

**12th Grade**

- Quantitative Reasoning, Statistics & Probability, and the Discrete Math & Computer Science courses are Algebra 2 equivalent courses. These courses are not designed for a pathway to a 4-year college.

12th Grade Course Progression	12th Grade Course Progression	Course	12th Grade Course Progression
<i>Successfully completed <u>Quantitative Reasoning</u> your junior year</i>	<i>Successfully completed <u>Pre-Calculus</u> or <u>Honors AP Pre-Calculus</u> your junior year</i>		<i>Successfully completed <u>Calculus</u> or <u>Honors AP Calculus BC</u> or <u>Honors AP Statistics</u> your junior year</i>
Discrete Math / Computer Science [Semester course] <i>-and-</i> Statistics & Probability [Semester course]	Honors Calculus		Honors AP Calculus BC ~And/Or
Successfully completed Discrete Math / Computer Science and Statistics & Probability your junior year	Honors AP Calculus BC ~ And/Or		Honors AP Statistics ~And/Or
Quantitative Reasoning ~Or	Honors AP Statistics ~ And/Or		Honors AP Computer Science
Algebra 2	Honors AP Computer Science		
Successfully completed Algebra 2 or Honors Algebra 2 your junior year			
Pre-Calculus ~ Or			
Honors AP Pre-Calculus			

## CHS MATH DEPARTMENT – TECHNOLOGY STATEMENT

The Mathematics Department of Centerville High School encourages students to use technology to open the doors to further advancement in mathematics. Calculators and computers are used in many Centerville High School classes. **Benefits are obtained by ...**

- using the numbers associated with many real applications. This requires the use of a calculator to avoid tedious computations that take away from the lesson being learned.
- using graphing as a way to investigate algebraic equations and to strengthen the bond between algebra and geometry.
- using the built-in features such as matrices, give students additional ways to solve problems, methods that were previously not accessible at this level.

### **Calculators cannot take the place of ...**

- knowledge about equations and how to solve them. This means using the rules of algebra to find solutions with pencil and paper.
- knowing basic constants used in measuring (i.e. angles, lengths, area, volumes, temperatures, etc.)
- knowing the shape, form and critical points of graphs before they are graphed on a calculator. This includes polynomial, logarithmic, trigonometric, and exponential graphs.

High school teachers are major contributors to students for what they may encounter in higher education, and eventually in the workplace. While many colleges and universities allow, and even require the use of graphing calculators, there are still many that will not allow their use. People in industry state they want students who can analyze the validity of the results produced by computers or graphing calculators. This analysis is done based on the knowledge of algebra fundamentals and equation-solving skills learned in the high school classroom. It is for these reasons that sometimes students are asked to set aside technology and perform algebraic manipulations with pencil and paper. There are also occurrences where certain facts need to be memorized because of their importance in the foundation of mathematics or because they add to the efficiency of a student's work. We want to express the fact that:

**While technology opens many doors, there is still the need for algebraic manipulation, memorization, and non-calculator graphing skills at this stage in a student's mathematical development. The TI-89, TI-92, TI-Inspire, and other calculators that have algebraic manipulation programs are not permitted to be used in the math classes below Calculus unless the use is directed by the teacher.**

**\*\* A scientific calculator is considered to be a calculator that performs computations in scientific notation and has fraction capabilities. It should also have sine, cosine, and tangent functions as well as square root and exponents.**

### PREREQUISITES

The Centerville High School mathematics curriculum is defined by successful completion of sequential math courses. Mastery of sequential mathematical skills and concepts is of primary importance. Algebra I is the foundation of the mathematics curriculum.

### RECOMMENDATIONS

In all mathematics courses, the teachers utilize their best professional judgment and recommend, to each student, the mathematics course for the following year. Prerequisites are also to be considered in the recommendation.

# MATHEMATICS DEPARTMENT COURSE DESCRIPTIONS

## **ALGEBRA 1**

Placement from 8th grade Math  
Year course / 1 credit (Lab fee)  
Mathematics Dept. (Math Credit)  
Course Code - 1109

Algebra 1 is a one-year course aligned with the Ohio Learning Standards for Mathematics. Areas of focus include number and quantity, functions (linear, absolute value, quadratic, and exponential), statistics and probability. Real world application and modeling is woven into all areas of focus. Ownership and use of a scientific calculator \*\* is required.

*Students enrolled in this course are required to take the End of Year State Assessment.*

## **ALGEBRA 1 CONNECTIONS**

Scheduled by 8th grade Math or Algebra 1 teacher  
Year course / 1 credit (Lab fee)  
Mathematics Dept. (Math Credit)

Algebra 1 Connections is a one-year course taken with teacher placement, designed to be taken concurrently with Algebra 1. It is a one-year course aligned with the Ohio Learning Standards for Mathematics and topics for students who need continued preparation with mathematical computation while learning to think abstractly with algebraic concepts. Much of the content is presented through hands-on activities. Students are expected to be active participants in the process.

## **GEOMETRY**

Placement from Algebra 1  
Year course / 1 credit (Lab fee)  
Mathematics Dept. (Math Credit)  
Course Code - 1115

Geometry is a one-year course that is aligned with the Ohio Learning Standards for Mathematics and follows the successful completion of Algebra I. Areas of focus include transformations, constructions, congruence, similarity, proof, trigonometry, circles, and probability. Ownership and use of a compass, protractor, and scientific calculator \*\* is required.

*Students enrolled in this course are required to take the End of Year State Assessment.*

## **ALGEBRA 2**

Placement from Geometry  
Year course / 1 credit (Lab fee)  
Mathematics Dept. (Math Credit)  
Course Code - 1121

Algebra 2 is a one-year course aligned with the Ohio Learning Standards for Mathematics that follows the successful completion of Geometry. Students will work with rational equations, complex numbers, and functions that include linear, quadratic, inverse, polynomials, exponential, logarithmic, and trigonometric. Other areas will include systems of equations & inequalities, series, probability and statistics. Ownership and use of a scientific calculator \*\* is required.

## **HONORS ALGEBRA 2**

**Placement from Geometry or Algebra 1 and Summer School Geometry**

**Year course / 1 credit (Lab Fee)**

**Mathematics Dept. (Math Credit)**

**Course Code - 1127**

Honors Algebra 2 is a one year course aligned with the Ohio Learning Standards for Mathematics for students who are willing to do extra work, in a class with a faster pace, and higher mathematical expectations beyond Algebra 2. Honors Algebra 2 is the first honors class in the sequence and students must understand that an Honors class requires a significantly greater amount of work and effort than what they are accustomed to in a traditional class. The content includes all the topics from Algebra 2 with additional material focusing on higher level algebraic manipulation and application. Honors Algebra 2 requires a thorough understanding of the concepts of Algebra, and not just the basic skills of Algebra. Students who earn a grade of A- or above are recommended to take Honors Pre-Calculus. Students who pass but earn a grade of B+ or below are recommended to take Pre-Calculus. Ownership and use of a scientific calculator \*\* is required.

## **QUANTITATIVE REASONING**

**Placement from Geometry, Algebra 2, Statistics & Probability, or Discrete Math / Computer Science**

**Year course / 1 credit (Lab fee)**

**Mathematics Dept. (Math Credit)**

**Course Code - 1120**

This course is the application of basic mathematics skills, such as algebra, to the analysis and interpretation of quantitative information (numbers and units) in real-world contexts of science, technology, and/or society to make decisions relevant to daily life. Critical thinking is its primary objective and outcome. It emphasizes interpretation, representation, calculation, analysis/synthesis, assumptions and communication. It is designed to promote reasoning, problem-solving and modeling. Students will focus on the process of taking a real-world situation, identifying the mathematical foundation needed to address the problem, solving the problem and applying what is learned to the original situation. Ownership and use of a scientific calculator \*\* is required. Students intending to pursue a 4-year degree program in STEM, business, or medical fields are encouraged to take the Algebra 2 and Pre-Calculus course sequence in high school.

## **STATISTICS & PROBABILITY**

**Placement from Geometry, Algebra 2, Quantitative Reasoning, or Discrete Math / Computer Science**

**Semester course / .5 credit**

**Mathematics Dept. (Math Credit)**

**Course Code - 11451**

This course is designed for any student interested in data analysis and connecting data to interpret one and two variable data using statistical methods to connect to the real world. In this course, students will explore methods of graphing statistics, design surveys and studies and decide upon sampling methods, and receive an introduction to statistical inference. They will be conducting and analyzing studies, presenting the data collected, exploring data using technology, and a deeper understanding of statistical function using Microsoft Excel or Google Sheets. Additionally, students expand their understanding of probability and randomness to develop an understanding of data distributions and inference for one-sample categorical and quantitative data. Each major topic will contain exploratory mathematical modeling. Students intending to pursue a 4-year degree program in STEM, business, or medical fields are encouraged to take the Algebra 2 and Pre-Calculus course sequence in high school.

## **DISCRETE MATHEMATICS / COMPUTER SCIENCE**

**Placement from Geometry, Algebra 2, Quantitative Reasoning, or Statistics & Probability**

**Semester course / .5 credit**

**Mathematics Dept. (Math Credit)**

**Course Code - 11481**

Discrete mathematics is an area of mathematics that is closely connected with the field of computer science. It is the study of mathematical structures that are countable or otherwise distinct and separable (as opposed to continuous quantities like in algebra or calculus). Discrete Math/Computer Science will explore a variety of discrete math topics through a mix of hands-on classroom activities, traditional mathematical and logical reasoning and interactive computer science activities designed for students with no prior coding experience. Topics include computational thinking, computer logic, game theory, counting/ combinatorics, probability, connectivity, iteration and recursion and cryptography. All topics emphasize logical reasoning, proof and communication with precise mathematical and computer science language. Ownership and use of a scientific calculator \*\* is required. Students intending to pursue a 4-year degree program in STEM, business, or medical fields are encouraged to take the Algebra 2 and Pre-Calculus course sequence in high school.

## **PRE-CALCULUS**

**Placement from Algebra 2**

**Year course / 1 credit**

**Mathematics Dept. (Math Credit)**

**Course Code - 1133**

Pre-Calculus is a one-year course that may follow the completion of Algebra 2, if the student has shown a strong ability in that subject. In this course, students expand on the algebraic concepts learned in Algebra 2, and delve into graphing functions and graphing techniques. They further their work with exponential and logarithmic functions. They complete a full course in trigonometry. They also explore matrices, conics, sequences, and series, and touch on intro to calculus topics. Students who earn a second semester average of C- or above are recommended for Calculus. Ownership and use of a scientific calculator \*\* is required. Ownership and use of a graphic calculator (TI-84 or equivalent) is optional.

## **HONORS AP PRE-CALCULUS**

**Placement from Honors Algebra 2**

**Year course / 1 credit**

**Mathematics Dept. (Math Credit)**

**Course Code - 11361**

Honors Pre-Calculus is a one-year course that may follow Honors Algebra 2, if the student has shown a high degree of success in that subject. Students enrolling in this course must have a strong mathematical background in algebraic manipulation and a sincere desire to pursue mathematical growth well beyond the average student. This course is designed for students who are willing to do extra work, in a class with a faster pace, and higher mathematical expectations beyond Pre-calculus. This course will provide students with the necessary preparation for Honors AP Calculus. In this course, students expand on the algebraic concepts learned in Honors Algebra 2, and delve into graphing functions and graphing techniques. They further their work with exponential and logarithmic functions. They complete a full course in trigonometry including identities. They also explore matrices, conics, sequences, and series, and touch on intro to calculus topics. May include some basic programming skills on the graphing calculator. The content is determined by the College Board AP Pre-Calculus outline. Students who earn a second semester average of B+ or above are recommended to take Honors AP Calculus, otherwise students should enroll in Calculus. . Ownership and use of a scientific calculator \*\* is required. Ownership and use of a graphic calculator (TI-84 or equivalent) is optional.

## **HONORS CALCULUS**

**Placement from Pre-Calculus or Honors AP Pre-Calculus**

**Year course / 1 credit**

**Mathematics Dept. (Math Credit)**

**Course Code - 11391**

Calculus is a course that continues to strengthen the complex algebraic manipulations necessary in college mathematics. The reasoning processes employed by mathematicians and others that apply mathematics are given strong attention. Students who enroll in this class will also be exposed to the concepts of Calculus, such as limits, derivatives, and integrals. Higher level algebraic manipulation and critical thinking skills will be enhanced throughout this course. An emphasis on using calculus as a tool for graphical analysis will be utilized. If you are a junior in Calculus, upon completion of this course you can take Honors AP Calculus BC (if you had a C- or higher) or you can enroll in Honors AP Statistics. Otherwise, students are recommended to retake Calculus. Ownership and use of a graphing calculator is optimal (TI-84 or equivalent).

## **HONORS AP STATISTICS**

**Placement from Honors Algebra 2, Pre-Calculus, Honors AP Pre-Calculus or Honors AP Calculus BC**

**Year course / 1 credit**

**Mathematics Dept. (Math Credit)**

**Course Code - 1145**

Honors AP Statistics is a one-year college level course that provides preparation for the Statistics Advanced Placement Test. Students who enroll in this course must have a strong mathematical background and a sincere desire to pursue maximum mathematical growth. The topics for Honors AP Statistics are divided into four major themes: exploratory analysis, planning a study, probability, and statistical inference. The content is determined by the College Board AP Statistics outline. Ownership and use of a graphing calculator is recommended. (TI-84 or equivalent).

### **HONORS AP CALCULUS BC**

Placement from Honors AP Pre-Calculus or Honors AP Statistics

Year course / 1 credit

Mathematics Dept. (Math Credit)

Course Code - 1142

Honors AP Calculus is a one-year college level course that provides preparation for the Calculus Advanced Placement Test. Students who enroll in this course must have a strong mathematical background and a sincere desire to pursue maximum mathematical growth. Calculus is the mathematical tool best suited to handle the problem of instantaneous rate of change and the problem of evaluating infinite summations. Honors AP Calculus introduces the student to: the concept of limits (including important related definitions and theorems), the concept of derivative (including important related definitions and theorems), the natural logarithm function (including related properties), and a variety of applications of these ideas. The content is determined by the College Board AP Calculus outline. Ownership and use of a graphing calculator is optimal (TI-84 or equivalent).

### **HONORS AP COMPUTER SCIENCE PRINCIPLES**

Year course / 1 credit

Mathematics Dept. (Math Credit)

Course Code - 1148

This course is a one-year introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing. The content is determined by the College Board AP Computer Science outline.

# SOCIAL STUDIES DEPARTMENT



## COURSE PROGRESSION

Please note that the chart below represents a typical pathway **most** students take. We realize that there may be circumstances that can cause variations to each student's course selections. If other circumstances exist please talk with your advisor first, and then your guidance counselor during the scheduling process.

- Please use this chart and course descriptions to make the appropriate course selection.
- Talk with your teachers and your advisor.
- Please pay attention to course prerequisites. They will be listed in the course description.

Each student needs **3 social studies** credits to graduate. Students **must** complete Modern World History, U.S. History, and Government to meet graduation requirements.

9th Grade Course Progression	10th Grade Course Progression	11th Grade Course Progression	12th Grade Course Progression
	<i>Successfully completed a <u>Modern World History</u> course your freshman year</i>	<i>Successfully completed a <u>Social Studies</u> course your sophomore year.</i>	<i>Successfully completed a <u>Social Studies</u> course your junior year.</i>
Modern World History ~ Or [Semester]	U.S. History ~ Or	Government [Semester] ~ Or	Government [Semester] ~ Or
Honors Modern World History [Semester] ~Or	Honors AP U.S. History ~ Or	Honors AP Government ~ Or	Honors AP Government ~ Or
Global History - Cold War Global History - Asia & Africa Semester] ~ Or	Global History - Cold War Global History - Asia & Africa [Both are Semester] ~ Or	Global History - Cold War Global History - Asia & Africa [Both are Semester] ~ Or	Global History - Cold War Global History - Asia & Africa [Both are Semester] ~ Or
Honors Philosophy [Semester]	Honors Philosophy [Semester]	Honors Philosophy [Semester]	Honors Philosophy [Semester]
	Honor AP European History	Psychology [Semester] ~ Or	Psychology [Semester] ~ Or
		Honors AP Psychology ~ Or	Honors AP Psychology ~ Or
		Law [Semester] ~ Or	Law [Semester] ~ Or
		Honors AP Microeconomics [Semester] ~ Or	Honors AP Microeconomics [Semester] ~ Or
		Honors AP Macroeconomics [Semester] ~ Or	Honors AP Macroeconomics [Semester] ~ Or
		Contemporary World Issues [Semester] ~ Or	Contemporary World Issues [Semester] ~ Or
		Honors AP European History	Honors AP European History

# SOCIAL STUDIES DEPARTMENT COURSE DESCRIPTIONS

## MODERN WORLD HISTORY

A student at Centerville High School may fulfill his/her Modern World History course requirement by selecting any one of two options.  
Required for all freshmen.

### **MODERN WORLD HISTORY**

Semester course / .5 credit (Lab Fee)  
Social Studies Dept. (Social Studies Credit)  
Course Code - 13061

This semester course will focus on significant world events, people, and places from 1688 through the 20th century. This course will introduce students to historical ideas and events that have shaped the world today. The historical content covered in the class will be studied from a social, political, and economic perspective as students learn about regions across the globe. Content will include subjects ranging from the enlightenment to world revolutions to the Cold War. Emphasis will be on establishing skills to critically analyze and interpret events from various time periods and regions.

### **HONORS MODERN WORLD HISTORY**

Semester course / .5 credit (Lab Fee)  
Social Studies Dept. (Social Studies Credit)  
Course Code - 13063

Upon completion of this semester course, students will 1) develop a narrative and thematic understanding of some key topics in modern world history; 2) develop the ability to critically analyze both historical evidence and historical interpretations; and 3) develop the ability to express historical understanding in writing. This fast-paced course is open to first year students who either exhibit above average ability in social studies and/or who show a strong interest in social studies. Successful completion of Honors Modern World History is strongly encouraged for enrolling in AP United States History. Also, students in this course will be expected to write at the honors level and are, therefore, strongly encouraged to be enrolled in Honors English.

# UNITED STATES HISTORY

A student at Centerville High School may fulfill his/her U.S. History course requirement by selecting any one of two options below. This course is typically taken during a student's Sophomore year.

## **UNITED STATES HISTORY**

Year course / 1 credit (Lab Fee)

Social Studies Dept. (Social Studies Credit)

Course Code - 1333

10th Grade Standard U.S. History focuses on the study of U.S. history from 1865 to the present. Students will explore cultural heritage, world interactions, democratic processes, decision-making and resources, and citizenship rights and responsibilities. Textbooks, lectures, video and audio resources, simulations, writing assignments, and various computer activities are used to involve the student in the examination of our nation's history and in the critical thinking process necessary to offer solutions to problems encountered by its people.

*Students enrolled in this course are required to take an End of Course State Assessment.*

## **HONORS AP UNITED STATES HISTORY**

Year course / 1 credit (Lab Fee)

Social Studies Dept. (Social Studies Credit)

Course Code - 1336

Advanced Placement U.S. History is a fast-paced course that takes students through over 200 years of U.S. history. The course provides the students grounding in the subject matter of U.S. history, while learning to analyze and interpret the importance and relationship of many events in the nation's history. The rote memorization of historical fact is not the primary focus of this class; however, students will be expected to draw upon a background of factual knowledge in order to exercise analytical skills intelligently. Students are expected to take the Advanced Placement exam in May. Successful performance on this exam may qualify a student for college credit in United State History at many American universities. Students taking this course must be enrolled in an advanced English class and should possess well-developed reading and writing skills, along with a strong ability to do quality research. This class will be offered to sophomores. Students are also encouraged to have a strong interest in social studies and be willing to complete summer work before entry into the class in the fall.

*Students enrolled in this course are required to take an End of Course State Assessment or AP Exam.*

# UNITED STATES GOVERNMENT

A student at Centerville High School may fulfill his/her U. S. Government course requirement by selecting any one of two options below. This course is typically taken during a student's Junior year.

## **UNITED STATES GOVERNMENT**

Semester course / .5 credit

Social Studies Dept. (Social Studies Credit)

Course Code - 1345

The goal of this semester course is to study the structure of our U.S. Government and to compare it to other types of governments. The student also studies the behavior of citizens in making our government work. Students learn the law-making process through the experience of debating legislation. Additionally, students will gain an understanding of personal financial literacy and its relationship to the global economy.

*Students enrolled in this course are required to take an End of Course State Assessment.*

## **HONORS AP UNITED STATES GOVERNMENT AND POLITICS**

Year course / 1 credit

Social Studies Dept. (Social Studies Credit)

Course Code - 13481

Provides students with an analysis of the U.S. government and political framework with focus on key concepts used to interpret U.S. politics as well as the analysis of specific case studies. To achieve an understanding of American government, students are expected to complete assigned readings, analyze, and understand current event topics associated with government and politics. Students should be familiar with the institutions, groups, beliefs, and ideas that comprise the U.S. political system. After completion of this course, students will fulfill the U.S. Government graduation requirement. Prerequisites are a strong interest in the subject matter, junior or senior status, and have a recommendation from their present social studies instructor. Expectations for the student include taking the Advanced Placement American Government and Politics test and the willingness to complete summer work before entry into the class in the fall. Additionally, students will gain an understanding of personal financial literacy and its relationship to the global economy.

*Students enrolled in this course are required to take an End of Course State Assessment or AP Exam.*

# SOCIAL STUDIES ELECTIVES

## **GLOBAL HISTORY - COLD WAR**

Semester course / .5 credit

Social Studies Dept. (Social Studies Credit)

Course Code - 1318

This semester course focuses on the geography, history, culture, and events that affect nations and world regions. Global History - Cold War will include the study of Soviet history and the events leading up to and during the Cold War. This course will also include current issues affecting these nations as well as their effect on U.S. relations. The student will be responsible for keeping up with current domestic and international events. This course is open to all grade levels. No prerequisite required.

## **GLOBAL HISTORY - ASIA & AFRICA**

Semester course / .5 credit

Social Studies Dept. (Social Studies Credit)

Course Code - 1321

This semester course focuses on the geography, history, culture, and events that affect nations and world regions. Global History - Asia & Africa will include the study of Asia and Africa. This course will also include current issues affecting these nations as well as their effect on U.S. relations. The student will be responsible for keeping up with current domestic and international events. No prerequisite required. Global History - Cold War is not a prerequisite for Global History - Asia & Africa. This course is open to all grade levels.

## **HONORS AP MICRO ECONOMICS**

1st semester / .5 credit

Social Studies Dept. (Social Studies Credit)

Course Code - 1363

This course gives students a thorough understanding of the principles of economics that apply to the functions of individual decision-makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Microeconomics requires students to understand that, in any economy, the existence of limited resources along with unlimited wants results in the need to make choices. The course begins by exploring this need by studying the concepts of opportunity costs and trade-offs, which can be illustrated by the production possibilities curve or other analytical examples. The course can then proceed to a consideration of how different types of economies determine which goods and services to produce, how to produce them, and to whom to distribute them. Students will understand why and how specialization and exchange increase the total output of goods and services.

## **HONORS AP MACRO ECONOMICS**

2nd semester / .5 credit

Social Studies Dept. (Social Studies Credit)

Course Code - 1366

This course gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price determination, and also develops student's familiarity with economic performance measures, economic growth, and international economics. Students are introduced to fundamental economic concepts, such as scarcity and opportunity costs. Students will study comparative advantage to determine the basis on which mutually advantageous trade can take place between countries and to identify comparative advantage from differences in output levels and labor costs. Other basic concepts that are explored include the functions performed by an economic system and the way the tools of supply and demand can be used to analyze a market economy. Coverage of these concepts provides students with the foundation for a thorough understanding of macroeconomics.

## **LAW**

**Semester course / .5 credit**

**Social Studies Dept. (Social Studies Credit)**

**Course Code - 1354**

This one semester elective has as its central focal point practical law. The widespread use of law in our nation makes it important for everyone to know something about our law and legal system. This course provides a practical understanding of basic legal principles and the operation of our legal system. Areas of law covered in depth include contract law, tort law, (negligence, intentional wrongs, strict liability), and criminal law (crimes, victims, defenses, arrest, search and seizure, correctional institutions, etc.). Mock trial simulations and role-playing are frequently used in class to emphasize and reinforce the material taught. Students taking this course should have good reading, comprehension, and independent study skills as well as being self-motivated.

## **COMPARATIVE RELIGION**

**Semester course / .5 credit**

**Social Studies Dept. (Social Studies Credit)**

**Course Code - 1355**

This course is a semester course open to juniors and seniors who are interested in embarking on an intensive study of five of the world's most commonly practiced religions: Judaism, Christianity, Islam, Hinduism, and Buddhism. The course traces the historical development of each religion and conducts a detailed investigation into the beliefs, traditions, practices, and scriptures prevalent in each faith. Primary and secondary source material is examined in order to understand how each religion attempts to unravel the meaning of life for its followers. Students will gain an appreciation and understanding of how these religions have influenced the development of the world, as well as how the world's development has influenced religion.

## **CONTEMPORARY WORLD ISSUES**

**Semester course / .5 credit (Lab Fee - 15 week subscription to weekly news magazine)**

**Social Studies Dept. (Social Studies Credit)**

**Course Code - 1352**

This course is a semester course that provides a practical understanding of current events in the world on city, state and national levels. This class will use a combination of resources including *Time Magazine*, *USA Today*, and guest speakers. Students will gain an appreciation and understanding of how events shape policy and affect outcomes in the economy, stock market, and political arenas. These topics will be explored through discussion and interaction in the class setting. The class is open to students of all skill levels in grades 11 and 12.

## **PSYCHOLOGY**

**Semester course / .5 credit**

**Social Studies Dept. (Social Studies Credit)**

**Course Code - 1357**

This course is a one-semester course, which introduces students to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students will be exposed to psychological facts, principles, and phenomena associated with the many subfields of psychology. Areas of emphasis include thought and learning, biological basis of behavior development, interpersonal relationships, abnormal behavior, and mental health. By learning about the methods psychologists use in their science and practice, the learners will have the opportunity to investigate and clarify perspectives concerning their own behavior.

## **HONORS AP PSYCHOLOGY**

**Year course / 1 credit**

**Social Studies Dept. (Social Studies Credit)**

**Course Code - 13601**

This year-long course is the same as Psychology but includes course content and subject matter driven by the Advanced Placement Psychology Test given by the College Board. It is expected that all students will take the AP Psychology Test in May. Students taking this course should have good reading, comprehension, and independent study skills as well as being self-motivated.

## **HONORS PHILOSOPHY**

**Semester course / .5 credit**

**Social Studies Dept. (Social Studies Credit)**

**Course Code - 1367**

This semester course is an intensive introduction to philosophical reflection and examination of some central questions of human existence. Throughout this course students will consider: 1) epistemological questions concerning the possibility and nature of knowledge and truth; 2) metaphysical questions concerning the nature of ultimate reality, the mind-body problem, freedom and determinism, and the existence of God; and 3) ethical questions concerning morality and the good life. Honors Philosophy is largely discussion-based and will place an emphasis on the careful reading of primary and secondary sources, critical and systematic thinking, and the verbal and written expression of ideas.

## **HONORS AP EUROPEAN HISTORY**

**Year Course / 1 Credit**

**Social Studies Dept. (Social Studies Credit)**

**Course Code - 1327**

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

# SCIENCE DEPARTMENT



## COURSE PROGRESSION

Please note that the chart below represents a typical pathway **most** students take. We realize that there may be circumstances that can cause variations to each student's course selections. If other circumstances exist, please talk with your advisor first, and then your guidance counselor during the scheduling process.

- When planning your science classes, use both this chart and the course descriptions, paying particular attention to class prerequisites. This chart shows when students typically take each course. Any course listed prior to your actual grade level may be taken as long as the prerequisites are met.
- Please use this chart and course descriptions to make the appropriate course selection.
- Talk with your current teacher, your advisor, and your guidance counselor.
- Please pay attention to course prerequisites, they will be listed in the course description.

Each student needs **3 science** credits to graduate.

- Students **must** complete: one Physical Science credit, one Life Science credit, and one Advanced Science credit to graduate.
- Only Biology 1, Anatomy and Physiology 1 and 2, Honors AP Environmental Science, and Honors AP Biology 2 are considered life sciences. The other courses listed are all physical sciences.

### 9th Grade

9th Grade Progression (Standard)	Course	9th Grade Progression (Advanced)	Course
Physical Science		Biology 1	

### 10th Grade

10th Grade Progression (Standard)	Course	10th Grade Progression (Advanced)	Course
<i>Successfully completed a <u>Science</u> course your freshman year</i>		<i>Successfully completed a <u>Science</u> course your freshman year</i>	
Biology 1		Anatomy & Physiology 1 & 2 ~ Or	
		Materials Science 1 & 2 ~ Or	
		ChemCom ~ Or	
		Chemistry 1 ~ Or	
		Physics 1 ~ Or	
		Earth Science 1 & 2 ~Or	
		Honors AP Environmental Science	

SCIENCE DEPARTMENT COURSE PROGRESSION

*Continued*

**11th Grade**

11th Grade Course Progression (Standard)	11th Grade Course Progression (Advanced)	
<i>Successfully completed a <u>Science</u> course your sophomore year</i>	<i>Successfully completed a <u>Science</u> course your sophomore year</i>	
Anatomy & Physiology 1 & 2 ~ Or	Anatomy & Physiology 1 & 2 ~ Or	
Materials Science 1 & 2 ~ Or	Materials Science 1 & 2 ~ Or	
ChemCom ~ Or	ChemCom ~ Or	
Chemistry 1 ~ Or	Chemistry 1 ~ Or	
Physics 1 ~ Or	Physics 1 or Honors AP Physics 1 ~ Or	
Earth Science 1 & 2 ~Or	Earth Science 1 & 2 ~Or	
Honors AP Environmental Science	Honors AP Environmental Science ~Or	
	Honors AP Biology 2 ~ Or	
	Honors AP Chemistry 2	

SCIENCE DEPARTMENT COURSE PROGRESSION

*Continued*

**12th Grade**

12th Grade Course Progression (Standard)	12th Grade Course Progression (Advanced)	
<i>Successfully completed a <u>Science</u> course your junior year</i>	<i>Successfully completed a <u>Science</u> course your junior year</i>	
Anatomy & Physiology 1 & 2 ~ Or	Anatomy & Physiology 1 & 2 ~ Or	
Materials Science 1 & 2 ~ Or	Materials Science 1 & 2 ~ Or	
ChemCom ~ Or	ChemCom ~ Or	
Chemistry 1 ~ Or	Chemistry 1 ~ Or	
Physics 1 or Honors AP Physics 1 ~ Or	Physics 1 or Honors AP Physics 1 ~ Or	
Earth Science 1 & 2 ~Or	Earth Science 1 & 2 ~Or	
Honors AP Environmental Science ~Or	Honors AP Environmental Science ~Or	
Honors AP Biology 2 ~ Or	Honors AP Biology 2 ~ Or	
Honors AP Chemistry 2	Honors AP Chemistry 2 ~ Or	
	Honors AP Physics 2 ~ Or	
	Honors Organic Chemistry	

# SCIENCE DEPARTMENT COURSE DESCRIPTIONS

## **PHYSICAL SCIENCE**

Year course / 1 credit (Lab Fee)

Science Dept. (Physical Science Credit)

Course Code - 1206

This course presents a survey of introductory physical science topics emphasizing chemistry, physics, and space science. Students will be exposed to various laboratory techniques and laboratory safety. This course serves the purpose of building a good science foundation and providing a desirable background to successfully begin a course in Biology 1, Chemistry 1, Physics 1, and/or Earth Science 1 and 2. Physical Science may be thought of as the beginning course in a college prep science curriculum.

## **BIOLOGY 1**

Year course / 1 credit (Lab fee)

Science Dept. (Life Science Credit)

Course Code - 1212

This course covers areas of ecology, population biology, biochemistry, cells, energy transfers genetics, DNA, human genetics, Earth's history, evolution, and taxonomy. It is primarily designed as a sophomore level course. It is recommended that Biology 1 be taken by freshmen only if they plan on scheduling Geometry during the ninth grade, and have long-range plans to schedule Honors AP Biology 2, Honors AP Chemistry 2, and/or Honors AP Physics 2.

## **ANATOMY & PHYSIOLOGY 1 AND 2**

Semester course / .5 credit Anatomy & Physiology 1 and .5 credit Anatomy & Physiology 2 (Lab fee)

Science Dept. (Life/Advanced Science Credit)

Anatomy and Physiology 1 Course Code - 1233

Anatomy and Physiology 2 Course Code - 1236

These courses are elective life science courses designed to be taken during two semesters. Anatomy & Physiology involves studying the integration of the structure and function of the human body. Topics covered in Anatomy & Physiology 1 include: cells, tissues, skeletal, muscular, nervous system, and the sensory organs. Anatomy & Physiology 2 covers the following: respiratory, digestive, cardiovascular, urinary, reproductive, and endocrine systems. Dissection is an expected requirement of this program. Successful completion of a life science credit is a prerequisite. Anatomy & Physiology 1 and 2 are independent courses and may be taken in any order.

## **HONORS AP BIOLOGY 2**

Year course / 1 credit - (Lab fee)

Science Dept. (Life/Advanced Science Credit)

Course Code - 1245

This course is based on a college freshman level biology curriculum. An emphasis is placed on mastery of the basics in a broad number of subject areas of biology. Areas covered include molecular and cellular biology, genetics, evolution, biochemistry, DNA technology, and ecology. Inquiry based and student directed lab investigations include the topics of: diffusion, enzymes, mitosis and meiosis, photosynthesis, cellular respiration, population genetics, bioinformatics, transpiration, animal behavior, and bacterial transformation. Students taking this course must have strong reading skills. Biology 1 and Chemistry 1 are prerequisites.

## **CHEMCOM**

Year course / 1 credit (Lab Fee)

Science Dept. (Physical/Advanced Science Credit)

Course Code - 1221

This is a college prep course for the student who is not necessarily science career oriented but who desires a chemistry background. ChemCom will serve as an introduction to chemical concepts and laboratory procedures while showing the real world applications of the science of chemistry. Note that ChemCom and Chemistry 1 are not two levels of the same course. They cover the general topic of chemistry in different ways and following different timelines, thus level changes between these classes are not permitted.

## **MATERIALS SCIENCE 1 AND 2**

Semester course / .5 credit Materials Science 1 and .5 credit Materials Science 2 (Lab fee)

Science Dept. (Physical/Advanced Science Credit)

Materials Science 1 Course Code - 1222

Materials Science 2 Course Code - 1223

These courses are elective physical science courses designed to be taken during two semesters. Materials science offers a 21st century examination of solid matter and its uses. Topics covered in Materials Science 1 include crystals and metals. Materials Science 2 covers ceramics, composites, and polymers. Each unit will include a study of the properties and basic chemistry of that particular group of materials. Testing methods and manufacturing processes will also be investigated. Designed to be relevant to students' lives and related to important topics in society, the workplace and the home, the course will be lab-oriented and hands-on. Students must be comfortable working independently in a lab setting, and able to follow written lab procedures. Successful completion of Biology 1 is a prerequisite. Materials Science 1 and 2 are independent courses and may be taken in any order. Level changes between Materials Science, ChemCom, and Chemistry 1 are not permitted.

## **CHEMISTRY 1**

Year course / 1 credit (Lab fee)

Science Dept. (Physical/Advanced Science Credit)

Course Code - 1224

This course is designed for those college bound students intending to pursue a career in science, mathematics, or related fields, or for those students who want a more in depth chemistry course. Chemistry 1 will provide an introduction to the science of chemistry with an emphasis on the scientific method, problem solving, and precise laboratory procedures. Note that Chemistry 1 and ChemCom are not two levels of the same course. They cover the general topic of chemistry in different ways and following different timelines, thus level changes between these classes are not permitted. Prerequisite: Successful completion of Geometry or concurrent enrollment in Geometry.

## **HONORS AP CHEMISTRY 2**

Year course / 1 credit (Lab Fee)

Science Dept. (Physical/Advanced Science Credit)

Course Code - 1248

This course expands upon the concepts presented in Chemistry 1 and explores such topics as thermochemistry, chemical equilibria, and kinetics. This course is equivalent to an introductory college chemistry class, and utilizes a college-level chemistry textbook. This is a fast-paced, challenging course designed for students considering careers in medicine, engineering, or science. Chemistry 1 and Algebra 2 are prerequisites.

## **HONORS ORGANIC CHEMISTRY**

Year course / 1 credit (Lab Fee)

Science Dept. (Physical/Advanced Science Credit)

Course Code - 1249

Honors Organic Chemistry is an advanced college level course that will provide opportunities for students to develop an understanding of the structure, nomenclature, reactions, and uses of organic compounds. Reactions of alkanes, alkenes, and alkynes, and organic compounds having functional groups such as alcohols and carboxylic acids will be studied, as well as stereochemistry and mechanisms. Laboratory experiments will complement the class work and will all be conducted using microscale techniques. Prerequisite: Successful completion of Honors AP Chemistry 2.

## **PHYSICS 1**

Year course / 1 credit (Lab Fee)

Science Dept. (Physical/Advanced Science Credit)

Course Code - 1242

This course is a first-year course that provides a thorough introduction to topics from both classical and modern physics, including mechanics, electricity, magnetism, waves, and basic nuclear physics. This college preparatory course, while rigorous, emphasizes conceptual understanding and real-life applications of physics. In addition to problem-solving, students should expect to participate in hands-on projects and laboratory experiments. Students must have completed Geometry, and should have completed or be concurrently enrolled in Algebra 2.

## **HONORS AP PHYSICS 1**

**Year course / 1 credit (Lab Fee)**

**Science Dept. (Physical/Advanced Science Credit)**

**Course Code - 1250**

This course is a first year, algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore the following topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound. AP Physics 1 is a full-year course that is the equivalent of a first-semester introductory college course in algebra-based physics. As such, the course focuses on an in-depth, complex mathematical approach to these topics. Students must have completed Algebra 2 or an equivalent course. Completion of Chemistry 1 is highly recommended. For further information please see the following link:

<https://apcentral.collegeboard.org/media/pdf/ap-physics-1-course-and-exam-description.pdf?course=ap-physics-1-algebra-based>

## **HONORS AP PHYSICS C: MECHANICS & ELECTRICITY/MAGNETISM**

**Year course / 1 credit (Lab Fee)**

**Science Dept. (Physical/Advanced Science Credit)**

**Course Code - 1251**

This course is a second-year course that is the equivalent of two semesters of calculus-based college physics. This course will prepare students for the Advanced Placement Physics C examinations in Mechanics and Electricity and Magnetism, and will provide a college-level laboratory experience. Approximately one half of the year is devoted to advanced mechanics concepts, and the remainder to an advanced treatment of electricity and magnetism. Preparation for the AP Physics C exam in Electricity and Magnetism may require some independent study. Some basic instruction in Calculus is integrated into the beginning of the course. Use of calculus in problem solving and derivations increases as the course progresses, and calculus is used freely in the second semester. Students must have completed Physics 1 (any level) and Pre-calculus before enrolling. Completion of or concurrent enrollment in Calculus is strongly recommended.

## **HONORS AP ENVIRONMENTAL SCIENCE**

**Year course / 1 credit (Lab Fee)**

**Science Dept. (Life/Advanced Science Credit)**

**Course Code - 1253**

This course is an advanced course designed to cultivate understanding of the interrelationships of the natural world through inquiry-based lab investigations and field work as students explore concepts like the four Big Ideas; energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability. Biology 1 is a prerequisite.

## **EARTH SCIENCE 1 AND 2**

**Semester course / .5 credit Earth Science 1 and .5 credit Earth Science 2 (Lab fee)**

**Science Dept. (Physical/Advanced Science Credit)**

**Earth Science 1 Course Code - 1215**

**Earth Science 2 Course Code - 1218**

These courses are elective courses designed as two semester courses. In Earth Science 1 students will study the origins, structure, and composition of the Earth, minerals and rocks, plate tectonics, various Earth processes such as: volcanoes, earthquakes, and mountain building, weathering and erosion. Other topics would include surface and groundwater, glaciation, wind, water and ocean currents. Earth Science 2 topics will include weather and climatology, oceanography, astronomy, and Earth's history. Research on the National Parks System will serve as the culminating project in Earth Science 2. Emphasis is placed on laboratory exercises. Earth Science 1 and 2 are independent courses and may be taken in any order.

# WORLD LANGUAGES DEPARTMENT



## COURSE DESCRIPTIONS

### **FRENCH 1**

Year course / 1 credit (Lab Fee)

World Languages Dept. (Elective Credit)

Course Code - 1403

This is a beginning course designed to develop basic listening and speaking skills through daily use of the language and frequent use of pre recorded audio materials. Fundamental reading and writing abilities are developed through the use of written exercises and simple reading selections. Practical vocabulary and language structure are stressed throughout the course. A general appreciation of French culture is emphasized through readings, videos, and discussions on selected topics.

### **FRENCH 2**

Year course / 1 credit (Lab Fee)

World Languages Dept. (Elective Credit)

Course Code - 1406

French 2 continues the development of the listening and speaking skills through extended conversation and recorded exercises. Reading abilities and vocabulary are further expanded through short stories, a short novel, and dialogues. Additional use of language structure is developed through written exercises, brief compositions, and short narratives. Appreciation of French culture is further extended through videos, class discussions, and cultural reading materials. The use of French in the classroom is stressed. Entire lessons in the target language may be taught and students will be encouraged to use as little English as possible with the goal of no conversational English use during class time.

### **FRENCH 3**

Year course / 1 credit (Lab Fee)

World Languages Dept. (Elective Credit)

Course Code - 1409

French 3 is designed to refine and further develop the basic skills taught in levels 1 and 2. Emphasis is placed on finer points of the language structure. Listening is refined and practiced through recorded exercises, brief conversation, and authentic French videos and news. Speaking is practiced and developed through daily partner activities and conversations. Thematic vocabulary and reading comprehension are further developed through the reading of authentic French poems, short stories, and a novel. Writing skills are practiced and developed through closely guided compositions. Appreciation of Francophone culture is further developed through authentic films, music, projects, and cultural reading materials. The use of French in the classroom is stressed, and the majority of the course will be conducted entirely in French. Students are expected to use little or no English.

### **HONORS FRENCH 4**

Year course / 1 credit (Lab Fee)

World Languages Dept. (Elective Credit)

Course Code - 1412

French 4 is conducted entirely in French. This course is designed for students who have shown a high aptitude in language learning and who have successfully completed French III. It is the first part of a two-year cycle that prepares students for the Advanced Placement French Language & Culture Exam. Students will engage in a wide variety of activities to develop skills in listening, writing, reading, and speaking. Emphasis is on authentic texts, both written and auditory. Francophone culture is presented thematically and is an essential part of the course. Students will read a play and a novel. Students may opt to take the Advanced Placement exam after this course, although it is recommended after completing Honors AP French 5 Language & Culture.

## **HONORS AP FRENCH 5**

**Year course / 1 credit (Lab Fee)**

**World Languages Dept. (Elective Credit)**

**Course Code - 1415**

French 5 is conducted entirely in French. This course is designed for students who have shown a high aptitude in language learning and who have successfully completed Honors French 4 Language & Culture. It is the second part of a two-year cycle that prepares students for the AP French Language & Culture Exam. The content of this course is completely different from that of Honors French 4 Language and Culture. AP French Language & Culture further refines students' skills in listening, writing, reading and speaking. Francophone culture is presented thematically and is an essential part of the course. Emphasis is on authentic texts, both written and auditory. Students will read a play and a novel. Students will have the opportunity to attain the proficiency necessary for the Advanced Placement language examination and/or other college placement exams.

## **GERMAN 1**

**Year course / 1 credit (Lab fee)**

**World Languages Dept. (Elective Credit)**

**Course Code - 1421**

German 1 is a beginning course designed to develop basic listening and speaking skills through daily use of the language and frequent use of pre-recorded audio materials. Fundamental reading and writing abilities are developed through the use of written exercises and simple reading selections. Practical vocabulary and language structure are stressed throughout the course. A general appreciation of German, Austrian, and Swiss culture is emphasized through readings, videos, and discussions on selected topics.

## **GERMAN 2**

**Year course / 1 credit (Lab fee)**

**World Languages Dept. (Elective Credit)**

**Course Code - 1424**

German 2 continues the development of the listening and speaking skills begun in German 1 through extended conversation and taped exercises. Reading abilities and vocabulary are further expanded through short stories and dialogues. Use of language structure is developed through written exercises, brief compositions and short narratives. Appreciation of German, Austrian, and Swiss culture is further extended through videos, class discussions, and cultural reading materials. The use of German in the classroom is stressed. Entire lessons in the target language may be taught and students will be encouraged to use as little English as possible with the goal of no conversational English use during class time.

## **GERMAN 3**

**Year course / 1 credit (Lab Fee)**

**World Languages Dept. (Elective Credit)**

**Course Code - 1427**

German 3 is designed to refine and further develop the basic skills stressed in levels 1 and 2. Emphasis is placed on finer points of the language structure. Speaking is extended to numerous planned and spontaneous conversations and narratives. Vocabulary and reading comprehension are further developed through the reading of simplified plays and short stories. Writing stresses lengthy but closely guided composition. Appreciation of German, Austrian, and Swiss culture is further expanded through videos, use of authentic realia and films, projects, and cultural reading materials. The use of German in the classroom is stressed. The majority of the class will be conducted entirely in the target language. The students will be expected to use little or no English.

## **HONORS GERMAN 4**

**Year course / 1 credit (Lab Fee)**

**World Languages Dept. (Elective Credit)**

**Course Code - 1430**

German 4 is conducted nearly entirely in German. This course is designed for students who have shown a high aptitude in language learning. It is part of a two-year cycle that prepares the students for the Advanced Placement German Language Exam. Students will engage in a wide variety of activities to further develop skills in reading, writing, listening, and speaking. In addition, students will learn strategies to analyze authentic texts, both written and oral. Germanic culture and history will be presented thematically. Students may opt to take the AP exam after this course, although it is recommended after completing Honors AP German 5 German Language. Summer work is required and may include short essays, vocabulary study, readings, the viewing and reporting on a German film, grammar review, etc.

## **HONORS AP GERMAN 5**

**Year course / 1 credit (Lab Fee)**

**World Languages Dept. (Elective Credit)**

**Course Code - 1433**

German 5 is conducted entirely in German, this course is designed for students who have shown a high aptitude in language learning and who have successfully completed Honors German 4 Language. It is the second part of a two-year cycle that prepares students for the Advanced Placement German Language Exam. AP German language further refines the students' skills in listening, writing, reading, and speaking. Students will have the opportunity to attain the proficiency necessary for the AP language examination and/or other college placement exams.

## **SPANISH 1**

**Year course / 1 credit (Lab fee)**

**World Languages Dept. (Elective Credit)**

**Course Code - 1442**

This is a beginning course designed to develop basic listening and speaking skills through daily use of the language and frequent use of pre-recorded audio materials. The expectation of student and teacher use of Spanish each day is 50% at the beginning of the year and 75% at the end of the year. Fundamental reading and writing abilities are developed through the use of written exercises and simple reading selections, including short novels. Practical vocabulary and language structure are stressed throughout the course. A general appreciation of Spanish and Latin American culture is emphasized through readings, videos, and discussions on selected topics. It is suggested that students who have passed Spanish 1 at the middle school level go to Spanish 2.

## **SPANISH 2**

**Year course / 1 credit (Lab fee)**

**World Languages Dept. (Elective Credit)**

**Course Code - 1451**

Spanish 2 continues the development of the listening and speaking skills through extended conversation and audio exercises. Reading abilities and vocabulary are further expanded through short stories, short novels, and dialogues. Use of language structure is developed through written exercises, brief compositions, and short narratives. Appreciation of Spanish and Latin American culture is further extended through videos, class discussions, and cultural reading materials. The use of Spanish in the classroom is stressed. The expectation of student and teacher use of Spanish each day is 85% at the beginning of the year and 95% at the end of the year. Entire lessons in the target language may be taught and students will be encouraged to use as little English as possible with the goal of no conversational English use during class time.

### **SPANISH 3**

Year course / 1 credit (Lab Fee)

World Languages Dept. (Elective Credit)

Course Code - 1454

This course is designed to refine and further develop the basic skills stressed in levels 1 and 2. Emphasis is placed on finer points of the language structure. Speaking is extended to numerous planned and spontaneous conversations and narratives. Vocabulary and reading comprehension are further developed through the reading of simplified play, short stories, and novels. Writing stresses lengthy but closely guided composition. Appreciation of Spanish and Latin American culture is further expanded through videos, guest speakers, projects, and cultural reading materials. The use of Spanish in the classroom is stressed. The expectation of student and teacher use of Spanish each day is 98% at the beginning of the year and 100% at the end of the year. The majority of the class will be conducted entirely in the target language. The students will be expected to use little or no English.

### **HONORS SPANISH 4**

Year course / 1 credit (Lab Fee)

World Languages Dept. (Elective Credit)

Course Code - 1457

Spanish 4 is conducted entirely in Spanish. This course is designed for students who have shown a high aptitude in language learning. Students will engage in a wide variety of activities to further develop skills in reading, writing, listening, and speaking. In addition, students will learn strategies to analyze authentic texts, both written and oral. Spanish culture and history will be presented thematically. Students may opt to take the Advanced Placement Language exam after this course, although it is recommended after completing Honors AP Spanish 5 Spanish Language.

### **HONORS AP SPANISH 5**

Year course / 1 credit (Lab Fee)

World Languages Dept. (Elective Credit)

Course Code - 1460

AP Spanish 5 is conducted entirely in Spanish. This course is designed for students who have shown a high aptitude in language learning and who have successfully completed Honors Spanish 4 Language. AP Spanish language further refines the students' skills in listening, writing, reading, and speaking. Students will have the opportunity to attain the proficiency necessary for the Advanced Placement Language Exam and/or other college placement exams.

### **SPANISH FOR HERITAGE SPEAKERS**

Year course / 1 credit (Lab Fee)

World Languages Dept. (Elective Credit)

Course Code - 1452

Spanish for Heritage Speakers course at Centerville High School will provide equitable academic opportunities for Hispanic students, ensure eligibility for the Seal of Biliteracy and the Honors Diploma, and prepare students for success in college and careers. This initiative directly advances Centerville's commitment to diversity, inclusion, mutual respect, and empowering students to engage effectively with a diverse world.

# VISUAL ARTS DEPARTMENT



## COURSE DESCRIPTIONS

The art classes at Centerville High School are designed to tap into the students' creativity and build the artistic skills that are necessary in all forms of visual art. The beginning level courses are appropriate for a student wishing to explore the area of visual art while gaining comfort with the language and techniques used by artists. The advanced level courses build in complexity and focus, requiring a high degree of commitment from the student. Students are encouraged to explore all areas of course offerings and mediums.

- Prerequisites must be followed through all levels.
- Studio Art, Studio Ceramics, and Advanced Digital Art and Design may be repeated for credit.
- Studio level courses are for 11th and 12th grade students only.
- All classes have fees.

*Each student needs **1 fine arts** credit to graduate, which may be either a visual and/or performing arts course.*

### **ART APPRECIATION**

Semester course / .5 credit (Lab Fee)

Arts Dept. (Fine Arts Credit)

Course Code - 1802

Art Appreciation is a visual arts course designed for students seeking a fine arts credit who do not plan to pursue additional art courses. The class introduced students to a variety of concepts through the study of art history, cultures, and guided projects. Emphasis is placed on reading and writing about art, as well as art making. This course requires little to no outside work. This course does not serve as a prerequisite for advanced art classes.

### **ART 1: Introduction to Drawing & Painting**

Semester course / .5 credit (Lab Fee)

Arts Dept. (Fine Arts Credit)

Course Code - 1803

Art 1: Introduction to Drawing and Painting focuses on the foundations of art making including design, drawing and painting from observation, artistic processes, and creative expression. Students will begin to develop the skills and techniques used by artists in a wide variety of careers, while engaging in the basics of art criticism and art history. The majority of class time will focus on improving drawing and painting skills through practice, revision, and challenge. Some outside class work is expected. Open to students in grades 9-12. Prerequisite for Art 2.

### **ART 2 : Intermediate Drawing & Painting**

Semester course / .5 credit (Lab Fee)

Arts Dept. (Fine Arts Credit)

Course Code - 1806

Art 2: Intermediate Drawing and Painting builds upon the skills and techniques learned in Introduction to Drawing and Painting while adding complexity and challenge. Students will explore a wide range of media and complicated subject matter. The majority of class time will focus on improving drawing and painting skills through practice, revision, and challenge. Outside class work is expected. Open to students in grades 9-12. Prerequisite for Art 3.

### **ART 3: Advanced Drawing and Painting**

Semester course / .5 credit (Lab Fee)

Arts Dept. (Fine Arts Credit)

Course Code - 1809

Art 3: Advanced Drawing and Painting is a course for students interested in establishing an inquiry-based approach to communicating personal voice through art making. The course is centered on increasing aptitude in various materials and connecting concepts to visual choices. Within this investigative framework, students begin to make work that can clearly communicate divergent personal vision. Students in Art 3 will be asked to consistently reflect on their work and process, researching art and artists and engaging in class discourse. Artists will be introduced to contemporary artists and art practices. Students in Art 3 will discuss the meaning of art by studying copyright and appropriation and answering questions about originality in their own work. As in any upper level course, students will be required to do homework and sketchbook assignments. Prerequisites: Art 1: Introduction and Art 2: Intermediate Drawing and Painting.

### **HONORS ART 3: Advanced Drawing and Painting**

Semester course / .5 credit (Lab Fee)

Arts Dept. (Fine Arts Credit)

Course Code - 18091

Students who elect to take Art 3 with the Honors Option must meet the prerequisite requirements for Art 3 and will be expected to complete outside work, including summer work. Students will be asked to complete a Pre-AP portfolio of artwork which builds on a focused visual concern of their choice and clearly demonstrates artistic development as well as an individual voice. This option is encouraged for students who plan to enroll in Honors AP Studio Art.

### **HONORS AP STUDIO ART**

Semester course / .5 credit (Lab Fee)

Arts Dept. (Fine Arts Credit)

Course Code - 1826

Honors AP Studio Art is for students interested in a rigorous and focused investigation in developing a personal voice in art making. The course is centered on developing a high quality body of work around an individual visual concern. Within this inquiry-based framework, visual works are expected to demonstrate practice, experimentation, and revision. Students in AP Art will be asked to continuously reflect on their work and process. Final portfolio submissions will be scored based on skillful synthesis of materials, processes, and ideas, as well as written articulation about the investigation and final outcome. Students will continue to investigate historical and contemporary art and artists to inform their practice. Summer work may be required. As in any college level course, students will be expected to spend a considerable amount of time outside of class in order to complete assignments and do homework and sketchbook assignments. The ideal AP Studio Art student is highly motivated, reflective, demonstrates increasing competency with a variety of materials, and desires to express their voice through art making. Prerequisite: This course requires completion of Art 1, Art 2, and Art 3.

*Honors AP Studio Art and Advanced Ceramics Studio may be taken twice in a school year.*

### **CERAMICS 1**

Semester course / .5 credit (Lab Fee)

Arts Dept. (Fine Arts Credit)

Course Code - 1812

Ceramics 1 is an introduction of the medium of clay as an expressive and functional art form. Students will learn a variety of basic hand building construction methods and will be required to complete assignments of both functional pottery and sculpture. Students will also learn basic techniques for glazing the works they create in class. Students will gain an understanding of the tools and equipment necessary to operate a ceramic studio as well as an overview of the history and aesthetics of ceramics as an art form. Student critiques will provide feedback and strengthen students' skills in critical thinking and problem solving.

### **CERAMICS 2**

Semester course / .5 credit (Lab Fee)

Arts Dept. (Fine Arts Credit)

Course Code - 1815

Ceramics 2 is a continuation of skill building in working with clay as an expressive medium. Students will continue to explore methods of hand building in clay and will explore various clay bodies as they continue to experiment with the process of working in this medium. Students in Ceramics 2 will begin their introduction to wheel throwing and will have the chance to practice and develop their skills. Students will further examine ceramic history and aesthetics as well as contemporary ceramic art. Assignments will include both functional

and expressive sculptural work and students are encouraged to continue to move towards an individual approach and style in their ceramic art. Out of class work in the form of required sketchbook assignments and research, along with the student critiques, will provide feedback and strengthen students' skills in critical thinking and problem solving. Prerequisite: Ceramics 1.

### **ADVANCED CERAMICS STUDIO**

**Semester course / .5 credit (Lab Fee)**

**Arts Dept. (Fine Arts Credit)**

**Course Code - 1816**

Advanced Ceramics Studio (ACS), a class for 11th or 12th grade students, is for the serious student who has completed Ceramics 1 and 2 and wishes to continue to refine their skills with clay while pursuing a personal artistic vision. Students will work with the instructor to create a plan that will produce a body of work that reflects their personal vision, whether functional or non-functional. The work produced in this class will be of high technical quality and will show proficiency in critical thinking and problem solving. Students will be expected to exhibit their work during the second quarter of the course. ACS students will be expected to participate in the daily operations of the ceramic studio including loading and unloading kilns, mixing glazes, preparing kiln shelves, and maintaining equipment. Out of class work in the form of sketchbook assignments and research, along with student critiques, will provide feedback and strengthen students' skills in critical thinking and problem solving. Prerequisites: Ceramics 1 and 2 and teacher recommendation.

*Honors AP Studio Art and Advanced Ceramics Studio may be taken twice in a school year.*

### **DIGITAL ART & DESIGN**

**Semester course / .5 credit (Lab Fee)**

**Arts Dept. (Fine Arts Credit)**

**Course Code - 1827**

This course focuses on the elements and principles of design and introduces students to the purpose and applications of digital media. Students will create computer graphics, web pages, animations, logos, and motion graphics while analyzing art history and the purpose of design. Students will utilize software programs in the Adobe Creative Suite to create independent projects. Class discussions will provide feedback as well as strengthen the students' understanding of the concepts. Prerequisite: Digital Literacy.

### **ADVANCED DIGITAL ART & DESIGN**

**Semester course / .5 credit (Lab Fee)**

**Arts Dept. (Fine Arts Credit)**

**Course Code - 1830**

Advanced Digital Art and Design builds upon the concepts and skills introduced in Digital Art & Design. Students will enhance their design abilities by creating complex, interactive projects in a professional studio environment using Adobe Creative Suite. Areas of focus include advanced interactivity, photo manipulation, character design, and the integration of 3D printing in the design process. Students will also gain practical experience working with clients within CHS and the Centerville School District. This course is fast-paced and emphasizes independent production and creative problem-solving.

Prerequisite: Digital Art & Design

# PERFORMING ARTS DEPARTMENT



## COURSE DESCRIPTIONS

### **CONCERT BAND**

Year course / 1 credit (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code - 1857

Concert Band is open to those students who have achieved a moderate degree of proficiency on a woodwind, brass, or percussion instrument. Emphasis will be placed on basic skills and theory and performance of band literature. This ensemble will perform at concerts and other functions. A method book fee will be collected. Rehearsals may occur outside of the normal class time. All performances will occur outside of the normal class time. These additional requirements are part of the class and will be communicated by the director in advance.

*All percussion students in Concert Band and Symphonic Band participate in a breakout course, under the umbrella of the regular band class. Required course materials for percussion class include the same instruments from middle school band (concert sticks, mallets, pad, and pad stand). There is an additional fee of \$25 for school percussion instrument use during the year.*

### **SYMPHONIC BAND**

Year course / 1 credit (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code - 1860

Symphonic Band is open to those students who have achieved a high proficiency on a woodwind, brass, or percussion instrument. A wide variety of music, individual skills, and theory will be covered in this course. This ensemble will perform at concerts and other functions. A method book fee will be collected. Students in this course will be selected by audition. Rehearsals may occur outside of the normal class time. All performances will occur outside of the normal class time. These additional requirements are part of the class and will be communicated by the director in advance.

*All percussion students in Concert Band and Symphonic Band participate in a breakout course, under the umbrella of the regular band class. Required course materials for percussion class include the same instruments from middle school band (concert sticks, mallets, pad, and pad stand). There is an additional fee of \$25 for school percussion instrument use during the year.*

### **HONORS SYMPHONIC BAND**

Year course / 1 credit

Performing Arts Dept. (Fine Arts Credit)

Course Code - 1861

Honors Symphonic Band option is an opportunity for those students wishing to pursue the study of music at a higher level as a member of the Symphonic Band. These students would meet the requirements for Symphonic Band (as outlined above) with the following additional requirements: Honors students must choose 2 activities per quarter to support their Honors credit. Selection of activities are from 3 categories: Musical Development, Community Connections, or Performance Opportunities. More information will be provided at the beginning of the school year, and all students enrolled in Symphonic Band are eligible to take the course for Honors credit.

## **WIND SYMPHONY**

**Year course / 1 credit**

**Performing Arts Dept. (Fine Arts Credit)**

**Course Code - 1863**

Wind Symphony is the premier performing band and is open to those students who have achieved an advanced degree of proficiency on a woodwind, brass, or percussion instrument. A wide variety of music, individual skills, and theory will be covered in this course. This ensemble will perform at concerts and other functions. A uniform and method book fee will be collected. Students in this course will be selected by audition. Rehearsals and performances will occur outside of the normal class time. These additional requirements are part of the class and will be communicated by the director in advance. There is also the possibility of an additional performance trip that may require an additional trip fee.

## **HONORS WIND SYMPHONY**

**Year course / 1 credit**

**Performing Arts Dept. (Fine Arts Credit)**

**Course Code - 1866**

Honors Wind Symphony option is an opportunity for those students wishing to pursue the study of music at a higher level as a member of the Wind Symphony. These students would meet the requirements for Wind Symphony (as outlined above) with the following additional requirements: Honors students must choose 2 activities per quarter to support their Honors credit. Selection of activities are from 3 categories: Musical Development, Community Connections, or Performance Opportunities. More information will be provided at the beginning of the school year, and all students enrolled in Wind Symphony are eligible to take the course for Honors credit.

## **CONCERT ORCHESTRA**

**Year course / 1 credit**

**Performing Arts Dept. (Fine Arts Credit)**

**Course Code - 1869**

Concert Orchestra is open to students who have achieved a moderate degree of proficiency on a violin, viola, cello, or string bass. Emphasis will be placed on refining basic technique, music theory, and advancing skill sets, such as shifting and vibrato. The ensemble plays a wide variety of string orchestra literature. This orchestra performs outside of the normal class time. Attendance at all scheduled events for the course is required of each member. There is a uniform fee.

## **SYMPHONIC ORCHESTRA**

**Year course / 1 credit**

**Performing Arts Dept. (Fine Arts Credit)**

**Course Code - 1875**

Symphonic Orchestra is open to students who have achieved an advanced degree of proficiency on a violin, viola, cello, or string bass. Emphasis will be placed on further advancing technical skills, music theory and the performance of a wide variety of string orchestra literature. This ensemble performs outside of the normal class time. Attendance at all scheduled events for the course is required of each member. There is a uniform fee. Students are selected for this ensemble through audition/placement. There is an Honors Option for this course. Please see the requirements listed below as Honors Symphonic or Philharmonic Orchestra.

## **PHILHARMONIC ORCHESTRA**

Year course / 1 credit

Performing Arts Dept. (Fine Arts Credit)

Course Code - 1880

This course is the premier performing ensemble of the high school orchestra program. Philharmonic Orchestra is for students who have achieved a high degree of proficiency on a violin, viola, cello, or string bass. Emphasis is placed on the study of music history and theory through learning advanced orchestra repertoire. This ensemble performs outside of the normal class time. Attendance at all scheduled events for the course is required of each member. Private instruction is strongly recommended. There is a uniform fee. There is also the possibility of a performance trip that may require a trip fee (fundraising options provided). Students are selected for this ensemble through audition only. There is an Honors Option for this course. Please see the requirements listed below as Honors Symphonic or Philharmonic Orchestra.

## **HONORS SYMPHONIC OR PHILHARMONIC ORCHESTRA**

Year course / 1 credit

Performing Arts Dept. (Fine Arts Credit)

Course Code Honors Symphonic Orchestra 1878

Course Code Honors Philharmonic Orchestra 1881

This honors course is open to those members of Symphonic or Philharmonic Orchestra wishing to further broaden their musical studies through intensive performance. In addition to meeting all the requirement for Symphonic or Philharmonic Orchestra, students selecting the performance Honors option will comply with the following requirements:

1. Take regular private lessons on their Orchestra instrument.
2. Perform 15 hours of Music Community Service per school year tutoring younger orchestra students and/or performing pre-approved community outreach.
3. Perform in the Dayton Youth Philharmonic Orchestra, a Centerville Orchestra Program extracurricular ensemble, or a pre-approved area ensemble.
4. Participation in OMEA Solo and Ensemble, Federation or give an approved solo recital.
5. Attend one concert per quarter and complete a critique of the performance as part of the required/provided Honors Journal.

## **CONCERT CHOIR**

Year course / 1 credit (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code - 1884

This class is open to all students interested in getting the choral experience. The objectives of this choral class are to teach correct vocal production and the basic musicianship essential to good singing.

## **SYMPHONIC CHOIR**

Year course / 1 credit (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code - 1887

This course is an auditioned group of students that will perform the highest level of mixed choral music. This ensemble will perform a variety of music at concerts, OMEA contests, school assemblies, community functions, and local/national competitions. Students will be auditioned and selected by the choral director.

## **HONORS SYMPHONIC CHOIR**

Year course / 1 credit (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code - 18871

This Honors course is an opportunity for those students wishing to pursue the study of music at a higher level as a member of VOCE. These students would meet the requirements for Bella Voce (outlined above), with the following additional requirements:

1. Take private voice lessons
2. Perform 5 hours per quarter of music community service tutoring young choir students.
3. Perform in an outside choir or honors ensemble, attend a choral/music workshop, or perform at OMEA Solo/Ensemble Contest or an equivalent and approved Voice Recital.

## **FORTE**

**Year course / 1 credit (Lab Fee)**

**Performing Arts Dept. (Fine Arts Credit)**

**Course Code - 1888**

Members of Forte will perform at the highest level in the contemporary a cappella style. Students will be auditioned and selected by the choral director. Interested students must be able to sing in the pop/jazz style and, therefore, must audition in this style. Auditions will also be held for a vocal percussionist. Forte will perform at concerts, school assemblies, community functions, and local/national competitions. Each year this group will record professional tracks for release to the public. Fees will be assessed in order to purchase original a cappella arrangements and for recording purposes.

## **HONORS FORTE**

**Year course / 1 credit (Lab Fee)**

**Performing Arts Dept. (Fine Arts Credit)**

**Course Code - 18881**

This course is an opportunity for those students wishing to pursue the study of music at a higher level as a member of Forte. These students would meet the requirements for Forte (outlined above), with the following additional requirements:

1. Take private voice lessons
2. Perform 5 hours per quarter of music community service tutoring young choir students.
3. Perform in an outside choir or honors ensemble, attend a choral/music workshop, or perform at OMEA Solo/Ensemble Contest or an equivalent and approved Voice Recital.

# MUSIC CO-CURRICULAR ACTIVITIES

## **MARCHING BAND**

The Centerville Jazz Band is one of the school's largest co-curricular activities. This award-winning band performs at parades, football games, community events, and band competitions and represents Centerville High School throughout the area, state, and Midwest. See Marching Band Information in the Band Department for complete information. The Physical Education Option can be selected for this activity. The marching band includes woodwinds, brass, percussion, and color guard.

*\* All incoming 9th grade and 10th grade students must be enrolled in a Concert Band, Symphonic Band, or Wind Symphony class to be eligible to participate in the Marching Band.*

## **WINTER GUARD**

Winter Guard is a co-curricular activity for those students interested in indoor Color Guard. There are several rehearsals weekly and competitions on weekends including several overnight trips. The Winter Guard competes at local, state, and regional events and functions from December through early April. There is a participation fee and auditions for this group.

## **WINTER PERCUSSION**

Winter Percussion is a co-curricular activity for those students interested in a marching indoor percussion ensemble. There are several rehearsals weekly and competitions on weekends including several overnight trips. The Winter Percussion competes at local, state, and regional events and functions from December through early April. There is a participation fee and auditions for this group.

## **SOLOS AND ENSEMBLES**

Solos and Ensembles are opportunities for band members to play in small groups to improve their skills. Much of the rehearsal is on an independent self-study basis. There are opportunities to perform such as the OMEA Solo and Ensemble Competition in the winter and various community events.

## **PEP BANDS**

Pep Bands are formed throughout the year as the need arises. They perform for a variety of events such as school assemblies, sports activities, and community events. The pep bands do not rehearse on a regular basis.

## **CHAMBER ORCHESTRA PROGRAM**

The Chamber Program is an auditioned ensemble meeting once a week and open to string musicians in grades 9-12. The ensemble performs as both a chamber orchestra as well as in small ensembles. Groups perform in the community through invitation as well as on Centerville Schools Orchestra Program events. There is a registration fee and a pay-to-participate fee as well for this group. Students must be active members of a CHS curricular orchestra to be eligible for this program.

## **CENTERVILLE YOUTH ORCHESTRA**

CYO is a co-curricular activity for those students in grades 9-10 who are interested in a full orchestra (band and strings) experience that begins in September and ends in May. The CYO rehearses once a week after school on Tuesdays. The activities for the year may include four concerts, a fall social, a college day visitation/workshop, and a trip including a competition. There is a registration fee and a pay-to-participate fee as well as auditions for this group. Students must be active members in their school orchestra or band.

## **ALTERNATIVE STRINGS**

Alternative Strings focuses on music that is non-classical (i.e. Celtic, Bluegrass, Jazz, and Electronic music). Students in grades 9-12 may audition for this group, which meets once a week after school on Thursdays. The activities for the year may include four performances in and out of school. There is a registration fee and a pay-to-participate fee as well as auditions for this group. Students must be active members in their school orchestra to be a member of this group.

# CHS DANCE PROGRAM

The Centerville Dance Program is open to all students, new and experienced dancers. The dance program provides a positive, respectful, and creative atmosphere for all students to develop their dance technique/coordination and freely express themselves through the exploration of movement.

Each dance course exposes students to modern, jazz, and ballet technique. The semester culminates in a dance concert in which all enrolled students are required to perform.

## Course Offerings:

**DANCE APPRECIATION** (9-12, no audition required)

**DANCE TECHNIQUE & SKILLS** (9-12, prerequisite Dance Appreciation)

**DANCE CONCEPTS & CHOREOGRAPHY** (9-12, prerequisite Skills & Concepts)

**DANCE COMPANY** (10-12, prerequisite Dance Concepts & Choreography)

**HONORS COMPANY** (11-12, prerequisite 1 year of Dance Company)

### **DANCE APPRECIATION (9-12/no audition or prerequisite required)**

Semester course / .5 credit

Performing Arts Dept. (Fine Arts Credit)

Course Code - 1890

This class is for students who have little to no previous dance experience. This fun, upbeat classroom environment allows students to learn basic concepts of modern, ballet, jazz, and social/cultural dance. The class will teach dance exercises and techniques at a beginning level pace that build strength, develop coordination, and increase flexibility. Students are exposed to the history of dance, dance vocabulary, new music, choreography, and performance. Students in this course are required to attend at least one CHS dance concert the semester they participate in this course. This is not a performance-based class.

### **DANCE TECHNIQUE & SKILLS (9-12/prerequisite Dance Appreciation or placement audition)**

Semester course / .5 credit (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code - 18911

Students in Dance Technique & Skills must have taken Dance Appreciation and should show a basic understanding of dance knowledge and vocabulary. This course will teach more in-depth dance techniques, and skills, and challenge the students with more developed dance combinations. Students will take a deeper look into dance history, choreography, and performance. The semester culminates in a dance concert in which all enrolled students are required to perform.

### **DANCE CONCEPTS & CHOREOGRAPHY (9-12/prerequisite Dance Technique & Skills or placement audition)**

Semester course / .5 credit (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code 18931 (Semester only)

Course Code 189311 (Year)

Students in Dance Concepts & Choreography must have taken at least one semester of Dance Technique & Skills. Students in Dance Concepts & Choreography will learn dance history, kinesiology, and how to approach choreography. Students will continue to strengthen their dance technique and work on advanced turns and leaps. Students in this course will have some mandatory after school rehearsals as well as performance responsibilities outside of the academic school day. The semester culminates in a dance concert in which all enrolled students are required to perform.

### **DANCE COMPANY (10-12/ prerequisite Dance Concepts & Choreography or placement audition)**

Year course / 1 credit earned upon completion of the year (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code - 1895

Students selected for Dance Company must have an advanced understanding of dance etiquette, technique, and stylistic nuance as well as a strong interest in movement exploration/improvisation and choreography. Dance Company is a lab-based class that spotlights student choreography and performance as well as encourages a stronger understanding of dance production. Students selected for this course should have a strong understanding of dance technique and vocabulary. In this fast-paced environment, students will perform works requiring a greater movement range, expression and risk taking. Through dance improvisation and interdisciplinary art projects students will explore new ways of moving and thinking about dance. Through research, observations, and written work, students take a look at dance from the past, present, and future and are encouraged to develop their own point of view about dance. In this yearlong course, there will be guest teachers, master classes, and multiple performance opportunities. Each semester culminates in a dance concert in which all enrolled students are required to perform.

### **HONORS DANCE COMPANY (1st Company 10-12 - audition/placement required)**

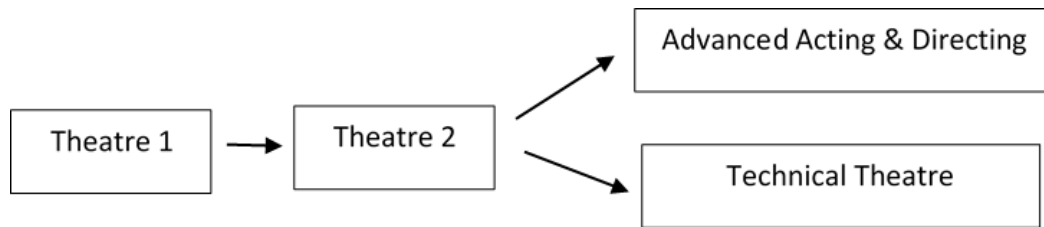
Year course / 1 credit earned upon completion of the year (Lab Fee)

Performing Arts Dept. (Fine Arts Credit)

Course Code - 18951

Honors Dance Company option is an opportunity for 2<sup>nd</sup> year+ members to pursue the study of dance at a higher level. These students would meet the requirements for Company (1895, outlined above) with the following additional requirements: Honors students MUST choose 2 activities per quarter to support their Honors credit. Selections of activities are from 3 categories: Technical Development, Community Connections, or Performance Opportunities. More information will be provided at the beginning of the school year. Students will be responsible for selecting and submitting 2 options from the activities listed per quarter.

# THEATRE PROGRAM CLASS DESCRIPTIONS



Theatre program offerings are designed under the premise that both performers and technicians need a well-rounded background both on and off stage. The two semester classes integrate both technical theatre and performance. They work to provide the full picture of theatre as a truly collaborative art form.

## **THEATRE 1**

Semester class / .5 credit (Lab Fee)  
Performing Arts Dept. (Fine Arts Credit)  
Course Code - 1899

Theatre 1 is an introduction to all aspects of theatre. It covers both the performance and the technical aspects of theatre (scenery, lighting, costuming, sound). This class uses projects, movies, and hands-on activities to survey topics like theatre vocabulary, acting, playwriting, puppetry, lighting, sound, scenic design, theatrical professions, acting games, and more.

## **THEATRE 2**

Semester course / .5 credit (Lab Fee)  
Performing Arts Dept. (Fine Arts Credit)  
Course Code - 1900

This class is a continuation of Theatre 1. It focuses on broadening knowledge and skills in performance and technical theatre. Students complete special projects in their areas of interest to obtain a more thorough understanding of the theatrical process. Because the curriculum for Theatre 2 is different each semester, the class may be repeated for credit. Prerequisite: Theatre 1.

## **ADVANCED ACTING & DIRECTING**

Year course / 1 credit  
Performing Arts Dept. (Fine Arts Credit)  
Course Code - 1901

This is a full-year, ensemble class geared toward mastering the fundamentals of acting through individual and collaborative performances as well as analysis of contemporary and classical texts. There will also be opportunities to begin to learn the craft of directing through scene work and script interpretation. This class will culminate in a final production. Advanced Acting & Directing may be repeated for credit. Prerequisite: Permission of instructor.

## **HONORS ADVANCED ACTING & DIRECTING**

Year course / 1 credit  
Performing Arts Dept. (Fine Arts Credit)  
Course Code - 1902

To earn honors credit for this class, students must complete the following requirements:

1. Attend a theatrical production once per semester and submit a written review.
2. Prepare and lead a class rehearsal once per semester that is based on an acting/directing theory or a topic from theatre history.
3. Submit a weekly reflection based on work in class or at rehearsal.

# PHYSICAL EDUCATION & HEALTH DEPARTMENT



## DEPARTMENT COURSE DESCRIPTIONS

### HEALTH

Semester / .5 credit (Lab Fee)

Physical Education Dept. (Health Credit)

Course Code - 1703

This course is a one-semester course in which the student earns one-half credit. It is required for graduation.

**CURRICULUM:** The curriculum is based on teen health concerns with the goal that students will develop healthy skills, attitudes, and knowledge as a foundation for lifelong learning.

Topics include:

- Dimensions of Health
- Nutrition & Fitness
- Body Image
- Character Building
- Emergency Care, CPR, & First Aid
- Relationships (Dating Abuse)
- Sexual Health
- Mental Health
- Stress Management
- Suicide Prevention
- Alcohol, Tobacco & Other Drugs (HOPE Program)
- Organ Donation
- Social Media Safety

**EVALUATION:** The curriculum encourages discussion, reflection, and project-based learning. Students will earn credit while participating in discussion, classwork, projects, and self-reflections.

## **PHYSICAL EDUCATION 1 (PE1)**

**Semester Course / .25 credit (Lab Fee)**

**Physical Education Dept. (PE credit)**

**Course Code - 1706**

This course is a one-semester course in which the student earns one-fourth credit. One-half credit, or 2 semesters, is required for graduation.

**CURRICULUM:** This course offers a variety of enjoyable fitness activities to challenge students. Students will enhance their physical, mental, and social health through team sports, leisure activities, and personal fitness goals.

The Ohio Department of Education & Workforce Physical Education Benchmarks assessed in this course highlight:

- Motor skills and movement patterns (health related fitness)
- Ability to develop a current and lifetime physical activity plan
- Ability to develop a fitness and nutrition plan
- Ability to demonstrate personal and social responsibility
- Ability to recognize the value of physical activity for health, enjoyment, challenge, social expression and/or social interaction

Topics include:

- Fitness Testing
- Weight Training
- Physical Activity Plan
- Personal Fitness Plan
- Team Sports:
  - Outdoor Units:
    - Soccer
    - Tennis
    - Flag Football
    - Ultimate Frisbee
  - Indoor Units:
    - Volleyball
    - Basketball
    - Floor Hockey
    - Tchoukball
    - Cornhole
    - Pickleball
    - Badminton
    - Capture the Flag

**EVALUATION:** The curriculum encourages students to interact with peers while participating in different physical activities. Students will earn credit while participating, self-reflecting, collaborating with peers, showing responsibility and preparedness for class each day, and completing ODEW Physical Education Benchmark Assessments.

## **PHYSICAL EDUCATION 2 (PE2)**

**Semester Course / .25 credit (Lab Fee)1904**

**Physical Education Dept. (PE Credit)**

**Course Code - 1707**

This course is a one-semester course in which the student earns one-fourth credit. One-half credit, or 2 semesters, is required for graduation.

**CURRICULUM:** This course offers a variety of enjoyable fitness activities to challenge students. Students will enhance their physical, mental, and social health through team sports, leisure activities, and personal fitness goals.

The Ohio Department of Education & Workforce Physical Education Benchmarks assessed in this course highlight:

- Motor skills and movement patterns (team sports)
- Ability to develop a sport portfolio
- Ability to demonstrate personal and social responsibility
- Ability to recognize the value of physical activity for health, enjoyment, challenge, social expression and/or social interaction

Topics include:

- Fitness Testing
- Weight Training
- Sport Portfolio
- Team Sports:
  - Outdoor Units:
    - Soccer
    - Tennis
    - Flag Football
    - Ultimate Frisbee
  - Indoor Units:
    - Volleyball
    - Basketball
    - Floor Hockey
    - Tchoukball
    - Cornhole
    - Pickleball
    - Badminton
    - Capture the Flag

**EVALUATION:** The curriculum encourages students to interact with peers while participating in different physical activities. Students will earn credit while participating, self-reflecting, collaborating with peers, showing responsibility and preparedness for class each day, and completing ODEW Physical Education Benchmark Assessments.

## **DANCE FITNESS (9-12 - no audition required)**

**Semester course / .25 PE credit (Lab Fee)**

**Physical Education Dept. (PE Credit)**

**Course Code - 1712**

This course is a one-semester course in which the student earns one-fourth credit. One-half credit, or 2 semesters, is required for graduation.

**CURRICULUM:** This class is designed for athletes, dancers and actors or anyone wanting to get into shape. On a daily basis students must actively participate in this fun and upbeat classroom environment. Students will learn how to stretch correctly, enhance their physical and mental strength, challenge themselves with new forms of physical activity, as well as improve their balance and coordination. Students gain tools on how to become a well-rounded, happier, and healthier individual.

The Ohio Department of Education & Workforce Physical Education Benchmarks assessed in this course highlight:

- Motor skills and movement patterns (health related fitness)
- Ability to develop a current and lifetime physical activity plan
- Ability to develop a fitness and nutrition plan
- Ability to demonstrate personal and social responsibility
- Ability to recognize the value of physical activity for health, enjoyment, challenge, social expression and/or social interaction

Topics include:

- Fitness Testing
- Weight/Resistance Training
- Cardio Circuit Training
- Pilates
- Yoga & Mindfulness
- Zumba

**EVALUATION:** The curriculum encourages students to interact with peers while participating in different physical activities. Students will earn credit while participating, self-reflecting, collaborating with peers, showing responsibility and preparedness for class each day, and completing ODEW Physical Education Benchmark Assessments.

## PHYSICAL EDUCATION DRESS CODE & EXPECTATIONS

**DRESS CODE:** All students participating in Physical Education at Centerville High School are required to wear activewear in combination with adequate and safe footwear at all times. The CHS dress code applies in Physical Education class and can be found in the Student Handbook.

Requirements for appropriate athletic clothing:

1. Activewear and footwear is safe for the student and others.
2. Activewear and footwear does not restrict the student from participating.
3. Activewear and footwear is not distracting to the student or others.
  - **Acceptable activewear examples:** T-shirts, razor back tanks, athletic shorts, sweat pants, yoga pants, leggings, etc.
  - **Unacceptable clothing:** jeans, cargo style pants, slides, crocs, dress shoes, boots, or any clothing that the teacher finds unsafe, restricting, or distracting for the activity

**EXPECTATIONS:** If clothing or footwear does not meet these 3 requirements students will lose daily points that will negatively impact their grade, and will receive a dress strike against them (see progression below). Even if a student does not dress in activewear, they will be required to participate in alternative activities deemed safe by the teacher, and can potentially earn participation points that day.

### DRESS STRIKES:

Strike 1 = Verbal Warning (Observation Form Completed if student cannot participate)

Strike 2 = Verbal Warning (Observation Form)

Strike 3 = Verbal Warning (Observation Form)

Strike 4 = Verbal Warning & Action Plan to avoid future Dress Strikes/detention (Observation Form)

Strike 5 = 30 Minute Detention

Strike 6 = Letter Grade Drop

## PHYSICAL EDUCATION WAIVER

The Physical Education Waiver is available to student athletes, members of after school marching band and flag corps, cheerleaders, and Coed members who practice and participate in a Centerville High School sanctioned activity on a daily basis. Students who wish to receive a PE waiver must:

1. Complete **two** full seasons meeting the participation requirements below, AND
2. Students are reminded that a PE waiver does not award credit to a student. It waives the PE requirement, but students must still earn the TOTAL number of credits needed to graduate.

This psychomotor option focuses on 1) physical fitness, 2) motor skill development, 3) participation, 4) sports fitness, and 5) following the Athletic Code with no infractions. Daily participation paralleling the official sport season must be completed at a 90% attendance level in the specific activity for credit to be granted. Sports seasons are determined by the official starting date of the activity and conclude with the final formal activity of the group.

### Process:

1. Students indicate interest in the PE waiver with their guidance counselor.
2. Coaches verify the student's 90% participation in the sport at the conclusion of each season.
3. Counselors waive PE when participation requirements are successfully met.

**NOTE:** The State of Ohio does not permit a combination of PE Waiver and PE Class to earn PE requirements.

# FAMILY CONSUMER SCIENCE DEPARTMENT



## COURSE DESCRIPTIONS

### **BAKING & PASTRY ARTS**

Semester course / .5 credits (Lab Fee)  
Family Consumer Science Dept. (Elective Credit)  
Course Code - 1752

Students will apply food-science principles to prepare and bake breads, desserts and pastries. The curriculum covers ingredient functions, measuring techniques, and baking methods, while also exploring the history and cultural significance of baked items. They will also use specialized decorating and presentation techniques to decorate cakes, cookies, pastries, and other baked goods. Students will select quality ingredients, determine food costs, and research and develop marketable new recipes and food concepts. Personal safety, food safety, and equipment safety will be emphasized. Open to students in grades 9-12.

### **CONTEMPORARY CUISINE**

Semester course / .5 credits (Lab Fee)  
Family Consumer Science Dept. (Elective Credit)  
Course Code - 1758

Students will prepare regional and international food products and beverages according to standardized recipes. They will research and develop marketable new recipes, plan and design menus, and calculate food requirements and costs. Selection, use, maintenance, and storage of commercial equipment, machines, tools and tableware will be emphasized. Food science, inventory management, food presentation, and safety and sanitation will also be addressed. Open to students in grades 9-12.

### **CREATIVE & HEALTHY FOODS**

Semester course / .5 credits (Lab Fee)  
Family Consumer Science Dept. (Elective Credit)  
Course Code - 17541

Do you love cooking and discovering new flavors? Are you curious about how food impacts your performance in school and sports? In this course, we will explore various techniques for selecting and preparing foods that promote better health. Students will examine consumer and health facts, debunking myths to make informed choices for their bodies. They will apply cooking methods, choose ingredients wisely, and understand nutritional information in the context of different dishes. Throughout the course, we will emphasize basic food safety and sanitation practices. In addition to healthy cooking, we will also cover essential aspects of healthy living, including stress management, mental health, sleep, emotions, and exercise. Open to students in grades 9-12.

### **FASHION DESIGN AND CLOTHING CONSTRUCTION**

Semester course / .5 credits (Lab Fee)  
Family Consumer Science Dept. (Elective Credit)  
Course Code - 17461

In this course, students will study the visual design elements of fabric and fashion. Students will identify, practice, and apply construction processes to create clothing and accessories. Additional topics will include refashion, fitting, alterations, fashion history, and personal styling. Students are responsible for providing their own fabric and supplies for their projects. Open to students in grades 9-12.

## **INTERIOR DESIGN**

**Semester course / .5 credits (Lab Fee)**

**Family Consumer Science Dept. (Elective Credit)**

**Course Code - 1743**

Do you enjoy designing and decorating living spaces? This class will cover the elements and principles of design as they pertain to furniture and interior decor. Other content covered will include housing styles and features, appliances, floor plan designs, and resource management. Students will investigate careers related to interior design and begin developing a portfolio of their design projects. Open to students in grades 9-12.

## **INTRODUCTION TO CULINARY & HOSPITALITY**

**Semester course / .5 credits (Lab Fee)**

**Family Consumer Science Dept. (Elective Credit)**

**Course Code - 1759**

This introductory course in the culinary arts and hospitality field will familiarize students with essential concepts in culinary arts, foodservice operations, lodging, and travel and tourism. Students will learn about customer service principles and analyze how cultural, historical, social, and technological developments influence key areas of the industry. They will also practice safety and sanitation techniques to prevent and manage workplace injuries, illnesses, and diseases. Additionally, the course will cover important topics such as business law, employability skills, leadership, and effective communication. Open to students in grades 9-12.

# INDUSTRIAL TECHNOLOGY DEPARTMENT



## COURSE DESCRIPTIONS

### **CIVIL ENGINEERING & ARCHITECTURE 1 (CEA 1)**

Semester course / .5 credit (Lab Fee)  
Industrial Technology Dept. (Elective Credit)  
Course Code - 1733

Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students will learn about architecture styles, framing systems, heat loss and gain, property drainage, and other basic residential housing systems. This course is designed for students in grades 10-12.

### **RESIDENTIAL MAINTENANCE TECHNOLOGY**

Semester course / .5 credit (Lab Fee)  
Industrial Technology Dept. (Elective Credit)  
Course Code - 1724

This course is a semester course where students learn hand and power tool skills and safety. These skills, when learned, will be used to make home repairs in the areas of electricity (wiring), plumbing (piping), drywall (installation), and other construction systems. Student learning of drafting skills, layout (house plans), and three-dimensional drawing (authentic drawings) will support the classroom expectation of projects. This practical and worthwhile applied arts option will allow students the opportunity to develop foundation knowledge from which lifetime home maintenance skills may be enhanced. Students are required to provide a personal pair of clear (Ansi Z 87) safety glasses.

### **WOODS TECHNOLOGY 1**

Semester course / .5 credit (Lab Fee)  
Industrial Technology Dept. (Elective Credit)  
Course Code - 1736

Students receive instruction in the proper set up and use of all the power and hand tools. Students will be required to work on a mass production project. They will also receive instruction in the characteristics of wood, finishing woods, and methods of fastening. Students must pay for the materials used in making projects and are also charged a lab fee. Custom Woodworking Technology 1 is a prerequisite for Custom Woodworking Technology 2 and Advanced Custom Woodworking Technology. Custom Woodworking Technology 1 is not repeatable. Students are required to provide a personal pair of clear (Ansi Z 87) safety glasses.

## **WOODS TECHNOLOGY 2**

**Semester course / .5 credit (Lab Fee)**

**Industrial Technology Dept. (Elective Credit)**

**Course Code - 1737**

This course is designed to deal with the more technical aspects of woodworking. Students will be taught more advanced woodworking techniques and procedures. Students will also study mass production techniques and furniture design. There will be one class project chosen with each student producing the project. Custom Woodworking 1 is a prerequisite. Students must pay for the materials used in making projects and are also charged a lab fee. Students are required to provide a personal pair of clear (Ansi Z 87) safety glasses. Custom Woodworking Technology 2 is not repeatable.

## **ENGINEERING COURSES**

### **INTRODUCTION TO ENGINEERING DESIGN A (IED A)**

**Semester course / .5 credit (Lab Fee)**

**Industrial Technology Dept. (Elective Credit)**

**Course Code - 1727**

This course is an introductory course which develops student problem solving skills with emphasis placed on the development of three-dimensional solid models. Students will work from sketching simple geometric shapes to applying a solid modeling computer software package. They will learn a problem solving design process and how it is used in industry to manufacture a product. The Computer Aided Design System (CAD) will also be used to analyze and evaluate the product design. The techniques learned, and equipment used, is state of the art and is currently being used by engineers throughout the United States.

### **INTRODUCTION TO ENGINEERING DESIGN B (IED B)**

**Semester course / .5 credit (Lab Fee)**

**Industrial Technology Dept. (Elective Credit)**

**Course Code - 1730**

This course is designed for the student interested in learning to draw three-dimensional drawings using AutoCad. Students will use the computer to experience 3D modeling, user coordinates system, 3D revolutions, shading, rendering, and solid modeling. Knowledge of these Computer Aided Drafting (CAD) skills is necessary for students entering the fields of engineering and graphic design. Prerequisite: Introduction to Engineering Design A (IED).

## **INTRO TO ROBOTICS & MECHATRONICS**

Semester course / .5 credit (Lab Fee)

Career Education Dept., Engineering (Non-Block Elective)

Course Code - 1755

This course introduces students to the interdisciplinary field of mechatronics, combining mechanical systems, electronics, and programming. Students will gain foundational skill in microcontroller programming, DC circuits, sensor integration, motor control, and robotics. The course blends hands-on projects, readings, worksheets, and homework to build practical and theoretical understanding.

## **3D PRINTING & FABRICATION**

Semester course / .5 credit (Lab Fee)

Career Education Dept., Engineering (Non-Block Elective)

Course Code - 1756

This project-based course introduces students to modern fabrication and design technologies including 3D CAD modeling, 3D printing, laser cutting, basic hand tools, and simple electronics. Students will develop practical skills in digital design and hands-on making through a series of engaging real-world projects.

# CAREER EDUCATION DEPARTMENT



## COURSE DESCRIPTIONS

### NON-BLOCK ELECTIVE DESCRIPTIONS

#### **INTRODUCTION TO MEDIA ARTS**

Semester course / .5 credit

Career Education Dept. (Non-Block Elective)

Course Code - 1763

This course is designed for high school students interested in exploring the world of visual communication and digital storytelling. This course will provide students with a comprehensive introduction to various media formats, including audio production, video production, graphic design, print media, podcasts, and other forms of digital and online media.

#### **CIS 1130 - NETWORK FUNDAMENTALS**

Semester course / 1 credit

Career Education Dept. (Non-Block Elective)

Course Code - C11508

This course covers an introduction to computer networking. Topics include: network standards and the Open Source Interconnection (OSI) model, topologies and Ethernet standards, network hardware, remote connectivity, wireless networking, in-depth TCP/IP, network security, network troubleshooting, and network management. Preparation will also be given for the ComptTIA Network+ exam. This course is the first of two courses related to Cyber Security and is a prerequisite to CIS 2640 - Network Security, which will be offered in the 2026-27 school year at CHS. Students must meet and complete the requirements to participate in College Credit Plus through Sinclair Community College to enroll in this course.

#### **SPORTS MEDICINE**

Semester course / .5 credit (Lab fee)

Career Education Dept. (Non-Block Elective)

Course Code - 1760

Sports Medicine is designed for those college bound students who plan to pursue a career in the medical or physical rehabilitation professions. This course will provide an introduction to human anatomy and physiology as well as the prevention, evaluation, and rehabilitation of athletic injuries. Students will be required to participate in lab experience and observe athletic events as they pertain to sports medicine. Successful completion of Health is a prerequisite. Sports Medicine may be taken simultaneously with Biology 1.

# BUSINESS TECHNOLOGY NON-BLOCK PROGRAM ELECTIVES

## **ACCOUNTING**

Semester Course / .5 credit (Workbook Fee)  
Career Education Dept., Business (Non-Block Elective)  
Course Code - 1518

Accounting is recommended for students planning to major in any type of business in college. Accounting is also of interest to students who plan to own their own business or use financial knowledge for personal reasons. Students develop an understanding of basic accounting concepts and principles by covering the accounting cycle. They will learn the rules of debit and credit, analyzing and journalizing transactions, posting to the general ledger, worksheets, preparation of financial statements, and banking and credit practices. Peachtree accounting software will be used to introduce students to computer accounting procedures by setting up charts of accounts, journalizing transactions, and preparing financial statements.

## **DIGITAL LITERACY (Formerly Computer Applications & Digital Literacy)**

Semester Course / .5 credit (Lab Fee)  
Career Education Dept., Business (Non-Block Elective)  
Course Code - 15032

Students develop computer and technical skills to keep up with the evolving business world. Students will learn formatting for school, personal, and business using word processing, desktop publishing, spreadsheets, database software, presentation software, and photo editing. Students will learn how to use social media platforms in a professional manner. The software used includes Google, Microsoft Office, online photo editing, and Google Drive and Suite.

## **ENTREPRENEURSHIP**

Semester Course / .5 credit (Lab Fee)  
Career Education Dept., Business (Non-Block Elective)  
Course Code - 1520

In this course, students will be introduced to many aspects of starting and operating a business in a competitive high tech global market. Students will analyze skills and traits necessary for entrepreneurial success. Students will gain knowledge and skills to effectively organize, develop, create, and manage their own business. Topics addressed will include: market trends, product development, business organization, market analysis, marketing, social media analytics finance, and pricing. Students will write a business plan and compete in an on-line business simulation. Students will explore the opportunity to earn Google AdWords and Google Analytics Certification.

## **INTRODUCTION TO PROGRAMMING**

Semester Course / .5 credit (Lab Fee)  
Career Education Dept., Business (Non-Block Elective)  
Course Code - 15061

This course provides students with a complete coverage of fundamental Computer Science programming topics, with an emphasis on C++, C#, and JavaScript languages. The course introduces basic programming concepts such as data types, input and output, decision making and looping structures, procedures, and enforces good style and logical thinking. Programs will be completed in both Command-line and Graphics User Interfaces and will use both the Visual Studio IDE and open source IDEs. The lessons are delivered through lectures, programming problems, and hands-on laboratory projects with emphasis on programming and debugging. This course will also include coursework on computer hardware.

## **SPORTS MARKETING**

Semester Course / .5 credit (Lab Fee)  
Career Education Dept., Business (Non-Block Elective)  
Course Code - 1522

This course is recommended for anyone interested in learning about the role of athletics and entertainment as it pertains to our economy. Marketing principles are used to analyze issues in the professional and amateur sports industries along with the entertainment industry. Topics include advertising in athletics and entertainment, labor issues, player salaries, competitive balance and the role of the governing bodies. The marketing perspective helps students better understand the industry and its social and cultural significance.

# CAREER EDUCATION DEPARTMENT



## COURSE DESCRIPTIONS

### BLOCK PROGRAM DESCRIPTIONS

Students who commit to a Career Technical program have courses that are/can be grouped together over multiple class periods creating a block of career classes. Students in our block program courses are eligible for the Tech Prep Scholarship if they meet the requirements. Students can choose to apply to a program of their choice from one of the following programs. Students will go through a selection process and will be informed if they will be accepted into the program. Only students who are accepted into a career tech program can take the following courses. Students who are accepted into a Block Program will be scheduled into these courses by their counselor.

Advanced Manufacturing @ Kettering HS	Allied Health @ CHS	Automotives @ Kettering HS	Biotechnology @ CHS	Business Academy @ CHS
Communication Arts/ Broadcast Management @ CHS	Construction @ Kettering HS	Cosmetology @ Kettering HS	Digital Design @ Kettering HS	Early Childhood Education @ CHS
Engineering @ CHS	Environmental Science @ CHS	Exercise Science @ CHS	Fire Science @ Kettering HS	Information Technology & Software Engineering @ CHS
Marketing @ CHS	Mass Communication @ CHS	Medical Assisting @ Kettering HS	Human Anatomy & Physiology @ CHS	Patient Centered Care @ CHS
Principles of Allied Health @ CHS	Technical Theatre @ CHS			

### COLLEGE CAREER & TECH PREP SCHOLARSHIP

Students who successfully complete the following programs with a 2.25 or higher GPA and also complete CHS graduation requirements will receive a scholarship to Sinclair Community College. A \$3,000 scholarship will be available to those students who enroll at Sinclair. Students may also earn college credits that will appear on a Sinclair transcript. These credits may be transferred to a 4-year university.

## ALLIED HEALTH BLOCK COURSES

### ALLIED HEALTH

Two year Course / 3 credits junior year, including 1 Human Anatomy & Physiology credit; 3 credits senior year (Lab Fee)  
Career Education (Allied Health Block Program Course) (Elective Credit)  
Course Code -8605-11 (Junior Year)

The Allied health program prepares students for careers in the fast-growing healthcare field by providing a strong foundation in medical knowledge, patient care, and professional skills. Through a combination of classroom instruction, hands-on laboratory experiences, and clinical learning opportunities, students explore the essential principles of patient care and healthcare services. Students will have the opportunity to earn credentials to be a Certified Patient Care Technician and a Certified Phlebotomy Technician.

## BIOTECHNOLOGY BLOCK COURSES

### BIOTECHNOLOGY

Two year Course / 1 credit junior year, 3 credits senior year, including 1 Life Science credit (Lab Fee)  
Career Education Dept. (Biotechnology Block Course) (Elective and/or Life Science Credit)  
Course Code - 8037-11 (Junior Year) or  
Course Code - 8042-12 (Senior Year)

Biotechnology is a two-year program designed to prepare students for post-secondary or mid-level technician occupations within the biotech industry. Students will learn how to prepare materials, conduct experiments, record data, and assist with the development and presentation of reports. The curriculum prepares students in the area of laboratory safety and maintenance, instrument analysis, chemical materials handling and sampling, physical properties measurement, biohazard storage, handling and disposal, basic microbiology, molecular biology, human biology, cell culturing and basic computer applications for biotechnology. Prerequisite: Completion of Algebra I, completion of two science credits including biology.

## BUSINESS ACADEMY BLOCK COURSES

### CENTERVILLE BUSINESS ACADEMY

Two year Course / 3 credits junior year, 3 credits senior year, including 1 Economics credit (Lab and Workbook Fee)  
Career Education Dept. (Business Block Course) (Elective Credit)  
Course Code - 8002-11 (Junior Year) or  
Course Code - 8046-12 (Senior Year)

This is a two-year program for anyone interested in pursuing a business career. Students study business with respect to the American and global environments, entrepreneurship, management, marketing, finance, and information technology.

**Junior year** - Students will complete the Introduction to Business, Microsoft Applications, and Small Business Accounting courses offered at Sinclair Community College. The students will receive grades for these courses on their high school diploma as well as graded credits on their college transcript. Student learning will also include units of study in communications, presentation skills, and teamwork. The students will also complete projects on the career and college selection process. Students are provided opportunities for leadership development through the Business Professionals of America student organization. The Junior Business Academy will have 2 sections of up to 24 students each.

**Senior year** - The Business Academy provides student experiences to learn various aspects of business and will also include units on desktop publishing and personal finance.

**Creative Ties** - Students will gain practical experience in management and entrepreneurship by organizing and operating a classroom corporation, Creative Ties.

**Credit Union** - Students will gain practical experience in finance and banking by organizing and operating the Centerville High School Credit Union in partnership with DayAir Credit Union.

**College Courses** - Senior Business Academy students will complete the International Business, Microeconomics, and Intro to Marketing courses for a potential of 9 college credits on their college transcript.

## BROADCAST MANAGEMENT BLOCK COURSES

### COMMUNICATION ARTS/BROADCAST MANAGEMENT

Two year Course / Junior year 3 credits; Senior year 3 credits (Lab Fee)  
Career Education Dept. (Broadcast Management Block Course) (Elective Credit)  
Course Code - 8018-11 (Junior Year) or  
Course Code - 8020-12 (Senior Year)

Centerville High School offers one of the most up-to-date intensified radio broadcast management courses available to high school students. Communications, communication technology, and communication management skills taught in Broadcast Management mirror the needs expressed by this country's business and technology leaders. Ninety-five percent of the Broadcast Management graduates pursue a post high school education. Students become knowledgeable in all areas of broadcasting, including emphasis on the current state of the industry and its history as well as hands-on experience with equipment, logistics, operations, production skills, public speaking, scriptwriting, play-by-play, and announcing techniques. The advanced second year program includes actual day-to-day management of WCWT-FM, including marketing, sales, operations, promotions, audience relations, on-air production and the people skills necessary to maintain a federally licensed community asset. Course will require after-school and/or weekend duties as part of the curriculum.

## EARLY CHILDHOOD EDUCATION BLOCK COURSES

### EARLY CHILDHOOD EDUCATION

Two year Course / 3 credits junior year, 3 credits senior year (Lab Fee)  
Career Education Dept. (Early Childhood Education Block Course) (Elective Credit)  
Course Code - 8059-11 (Junior Year) or  
Course Code - 8063-12 (Senior Year)

This is a two-year Tech Prep course designed to provide a broad background in education and related fields. Early Childhood Education (ECE) students working under the direct supervision and guidance of cooperating teachers, will participate in hands-on experiences working with children for two class periods daily. ECE students will work with children at PVN/PVS and other schools in Centerville City Schools. Fundamental skills taught include, but are not limited to, tutoring individuals and small groups, implementing lessons, assessing, public school procedures and culture, following state and federal school safety guidelines, and organizing documents. In-service sessions support classroom experiences. During the senior experiences, a focus of the program is transition to the post-secondary environment and narrowing the focus of future career endeavors. Students enrolled in the ECE program must come into the program with a minimum of 2.0 GPA. Expectations for improved academic performance are high. Students graduating from this program will be prepared to complete an associate's or bachelor's degree in education or related field. Student enrollment in the ECE program is limited due to the number of cooperating teachers available. Students will be expected to pay for fingerprinting done at the Centerville Board of Education Office on Virginia Avenue.

## ENGINEERING BLOCK COURSES

### **ENGINEERING**

**Two year Course / 3 credits junior year plus 1 credit of physics, 3 credits senior year (Lab Fee)**

**Career Education Dept. (Engineering Block Program Course) (Elective Credit)**

**Course Code - 8048-11 (Junior Year) or**

**Course Code - 8050-12 (Senior Year)**

This program is an intensive two-year set of courses (grades 11-12). Pre-engineering program concentrating on multiple foundations and fundamental entry-level processes of engineering. The Engineering courses include Introduction to Engineering Design (IED), Principles of Engineering (POE), Computer Integrated Manufacturing (CIM), Engineering Design and Development (EDD). Physics is also blended into the curriculum with an emphasis on Mechanics. Students complete the engineering program with four years each of Mathematics, Science, and English in the college prep sequence. The curriculum is an applications oriented program utilizing the latest high tech equipment. During the course students will receive some instruction in partnership with Sinclair Community College utilizing electronics and robotics. This instruction will include students taking engineering courses at Sinclair Community College for which they will receive college credit. Students pursuing an engineering program and 2- and 4-year institutions will find their preparation has placed them at an advanced application level while maintaining an aggressive academic preparation. Students will also participate in several high school competitions throughout their junior/senior years. Program prerequisites include completion of Geometry.

## ENVIRONMENTAL SCIENCE BLOCK COURSES

### **ENVIRONMENTAL SCIENCE**

**Year Course / 3 credits junior year, including 1 life science credit; 3 credits senior year, including 1 life science credit (Lab Fee)**

**Career Education Dept. (Environmental Science Block Program Course) (Elective and/or Life/Advanced Science Credit)**

**Course Code - 8065-11 (Junior Year) or**

**Course Code - 8068-12 (Senior Year)**

Centerville's Environmental Science program uses a hands-on approach to teach students about many different areas of environmental science such as ecology, water quality, wildlife management, natural resources, emergency response, scuba, surveying, orienteering, soil sampling and analysis, and environmental regulations. Group work, field trips to area parks, field projects, and the use of state-of-the-art equipment ensure that students leave the program with useful skills, knowledge, and professional certifications that will put them ahead of the average environmental college student. Students can also use these skills and certifications to get a high-paying job right out of high school. Students will be able to receive the following certifications: 40-hour Hazardous Materials Technician, 30-hour OSHA for Construction, Hunter Education, Open Water SCUBA, and Project Wild. Biology and algebra are highly recommended prerequisites to Environmental Management.

# EXERCISE SCIENCE BLOCK COURSES

## EXERCISE SCIENCE SPORTS & RECREATION HEALTH CARE

Two year Course / 3 credits junior year, including 1 Human Anatomy & Physiology credit; 3 credits senior year (Lab Fee)

Career Education Dept. (Exercise Science Block Program Course) (Elective Credit)

Course Code - 8077-11 (Junior Year) or

Course Code - 8078-12 (Senior Year)

This is a two-year program that provides students the opportunity to prepare for their post-secondary education in a vast number of medical and/or fitness related career fields.

During the junior year, the curriculum focuses on the areas of:

- **Exercise Science and Athletic Training** - Learning and applying procedures used in athletic training and in the care and rehabilitation of therapeutic exercise. In addition, legal considerations, and the role of exercise science in relation to other health fields are emphasized.
- **Athletic Injuries and Prevention** - Identifying signs and symptoms of injuries, applying emergency procedures and immediate care of athletic-related trauma. Students learn clinical and field evaluative processes, injury prevention techniques, conditioning techniques, treatment, taping, bracing, and rehabilitation of musculoskeletal injuries and conditions.
- **Human Anatomy and Physiology** - Students will demonstrate knowledge of the body systems with emphasis on the interrelationships between structure and physical function.

During the senior year, the curriculum focuses on the areas of:

- **Medical Terminology** - Students will apply the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological emphasis on derivation, meaning, and pronunciation.
- **Nutrition and Wellness** - Increasing knowledge of comprehensive health and wellness through the components of fitness and the relationship between physical fitness, physical performance, injury prevention, and nutritional intake.
- **Fitness Evaluation and Assessment** - Students will complete fitness evaluations and develop individualized training programs. Students will administer cardiovascular endurance, body composition, joint flexibility and muscular strength, power, and endurance field tests. In addition, seniors will participate in several internships to observe professionals in medical and fitness related fields such as: athletic training, nursing, occupational therapy, and physical therapy to name a few during class. Prerequisite requirements for Exercise Science include Algebra I and Biology.

## INFORMATIONAL TECHNOLOGY (I.T.) BLOCK COURSES

### **INFORMATION TECHNOLOGY & SOFTWARE ENGINEERING**

Two year Course / 3 credits junior year; 3 credits senior year (Lab Fee)

Career Education Dept. (Informational Technology Block Program Course) (Elective Credit)

Course Code - 8053-11 (Junior Year) or

Course Code - 8057-12 (Senior Year)

This is a two-year (grades 11-12) intensive computer science program which offers a seamless transition to the top 4-year colleges in the country. This program focuses on developing technical skills. The program concentrates on four areas of study in the information technology field.

The first area is computer programming languages using Visual Basic.NET, c#, C# with ASP.NET, Java, PHP, JavaScript, and C++ (College Credit Plus course). These program languages are widely used in today's business environment and are extensively covered. Every year, the program produces some of the best high school programmers in the country!

The second area concentrates on PC hardware and networking. In the junior year, the students enroll in the Cisco Academy and take the IT Essentials I class which prepares students for the CompTIA's Hardware and Software exam. The students also take CIS 1107 - Intro to OS (College Credit Plus course) college class and at the end of the year test for the PC Pro License by TestOut. In the senior year, the students prepare for CompTIA's Network+. The seniors will then test for the Networks Pro License.

The third area of study consists of web design/development. The junior courses consist of learning HTML5, HTML5 Forms, and CSS#. Senior year courses focus on learning JavaScript, jQuery, jQuery UI, and jQuery Mobile. Seniors take the CIS 1350 - Web Development (College Credit Plus course) college class. These topics will teach students how to create professional websites.

Finally, students apply these skills and gain experience while completing real-world projects for actual businesses. The objective is to give the students the opportunity to develop soft skills like project management, time management, business communications, and deliver professional presentations. Students have an opportunity to compete nationally in BPA (Business Professionals of America). They also compete in the CHS Tech Prep Showcase and Miami Valley Tech Prep Showcase. The Computer Science topics top the STEM career field in both job opportunities and salaries. The students can earn up to 6 college credits transferable to 2- and 4-year schools.

## MARKETING BLOCK COURSES

### **MARKETING**

Year Courses ME1 / 1 credit; ME2 / 3 credits (Lab Fee)

Career Education Dept. (Marketing Block Program Course) (Elective Credit)

Course Code - 8034-11 (Junior Year) or

Course Code - 8035-12 (Senior Year)

This is a two-year cooperative education program for students interested in a career in marketing, merchandising, management, or business ownership. During the junior year, students will study the basics of marketing, economics, selling, product development, and employability skills. Juniors are responsible for managing and operating the "Hole-in-the-Wall" bookstore. Senior year students will learn the principles of display, advertising, purchasing, market research, pricing, distribution, and entrepreneurship. Seniors will develop a comprehensive business plan. During the senior year, students are required to co-op an average of 15 hours per week in the marketing field. Each class meets for 1 period each day, and during senior year, the co-op portion may be done during the school day or after school and on weekends. Students are selected for this program on the following criteria: 1) good school attendance; 2) teacher recommendation; 3) an essay; and 4) a personal interview. In order to be accepted into Marketing Education 2, students must have successfully completed Marketing Education 1. All students in Marketing Education are members of its national student organization, DECA. Marketing students can earn college credits while in high school which will transfer to Ohio 4-year universities.

## MASS COMMUNICATION BLOCK COURSES

### **MASS COMMUNICATION – PRINT/BROADCAST JOURNALISM**

Two year Course / 3 credits junior year; 3 credits senior year (Lab Fee)

Career Education Dept. (Mass Communication Block Program Course) (Elective Credit)

Course Code - 8012-11 (Junior Year) or

Course Code - 8015-12 (Senior Year)

This program offers techniques and skills used in print, online, and broadcast journalism careers, including news writing, feature writing, sports journalism, photography, videography, advertising sales, and desktop publishing. Students in this 2-year course produce the school quarterly news magazine, *Pursuit*, and operate an in-school television station, Centerville News Network. The news magazine is produced to keep students up-to-date on happenings around the school and local news. Centerville News Network produces bi-weekly broadcasts to inform students of upcoming events and recent happenings of daily CHS student life. Along with print and video journalism, Mass Communication students are also a part of Business Professionals of America (BPA). BPA is the nation's largest student-run organization, and students get the opportunity to compete yearly on student-led projects. The Mass Communication program is different from others because of the opportunity students have to display their work on a regular basis to the school and the community. Juniors and seniors in this 2-year course meet 2 periods each day.

## TECHNICAL THEATRE BLOCK COURSES

### **TECHNICAL THEATRE**

Two year course / 3 credits junior year; 3 credits senior year (Lab Fee)

Career Education Dept. (Technical Theatre Block Program Course) (Elective and/or Fine Arts Credit)

Course Code - 8082-11 (Junior Year) or

Course Code - 8085-12 (Senior Year)

This is a 2-year program which focuses on the technical elements of the entertainment industry including theatre, productions, concerts and other "live" performances. The program provides a thorough background in all areas of production including scenery construction, lighting, sound, props, and costuming using project based learning. Open to juniors and seniors, Technical Theatre Tech Prep provides the opportunity to earn credit from Sinclair Community College which can be transferred to both 2- and 4-year colleges. Technical Theatre students will have the opportunity to work on individual and group projects with select designs being chosen for implementation through theater and dance department productions. There will be many opportunities for out of class work as technicians at the Performing Arts Center. Classes are taught in the Performing Arts Center with students using the Scene Shop, stage and theatre as their classroom. Students learn through a combination of projects, interactive instruction, and hand-on learning. As part of the program, students will be involved in main stage theatrical productions, dance concerts, and other after school performances.

# CAREER EDUCATION COURSES AT KETTERING FAIRMONT HIGH SCHOOL

The following courses are available at no charge to Centerville students; however, each program has yearly lab fees (i.e., dues, field trips, textbooks, miscellaneous expendables, etc.). Transportation will be provided by Centerville City Schools. Students interested in the following programs will spend up to half of the day at Kettering Fairmont High School (KFHS). To apply for a program, a student must do so in the spring during his or her sophomore year. The Pathways Coordinator will have the necessary application forms. The following programs are available:

## **ADVANCED MANUFACTURING**

**Two year Course / 2 credits junior year; 3.5 credits senior year (KFHS) (Lab Fee)  
Career Education (Advanced Manufacturing Block Program Course) (Elective Credit)**

Join this exciting program to become trained for a field that is revolutionizing the way products and processes are being created and implemented across various industries. This highly-engaging, interactive class will train students to use mills, lathes, CNC machines, and other modern equipment to best prepare them for the world of work in this in-demand industry. Paid senior year internships will be available for motivated students.

## **AUTOMOTIVE**

**Two year Course / 3 credits junior year; 3 credits senior year (KFHS) (Lab Fee)  
Career Education (Automotive Block Program Course) (Elective Credit)  
Course Code - 85101-11 (Junior Year) or  
Course Code - 85151-12 (Senior Year)**

This is an A.S.E. certificated two-year program, involving the study of automotive systems and the various design characteristics of different automobiles. The auto technology laboratory is constructed and equipped to simulate a typical automotive service center. The students are taught skills necessary to maintain, replace, or repair today's modern automobile engine and to repair the drive train and electrical components. Students interested in the challenge and physical activity of auto technology may choose from a variety of jobs including auto mechanics and related areas specializing in fuel injection and computer controls, brakes, front end alignment, electrical, as well as all other A.S.E. certification areas. Fees associated with this program include purchasing workbooks, steel-toed shoes, and toolbox/tools.

## **CONSTRUCTION**

**Two year Course / 3 credits junior year; 3 credits senior year (KFHS) (Lab Fee)  
Career Education (Construction Trades Block Program Course) (Elective Credit)  
Course Code - 85201-11 (Junior Year) or  
Course Code - 85251-12 (Senior Year)**

This is a two-year vocational program designed to prepare students for employment in residential construction. The curriculum will include modules covering carpentry, masonry, heating and air conditioning, electrical, and plumbing. This program is open to both male and female students interested in a career in residential construction. This hands-on class utilizes the application of applied math and woodworking skills, which lead toward future apprenticeship opportunities.

## **COSMETOLOGY**

**Two year Course / 3 credits junior year; 5 credits senior year (KFHS) (Lab Fee)  
Career Education (Cosmetology Block Program Course) (Elective Credit)  
Course Code - 85651-11 (Junior Year) or  
Course Code - 85751-12 (Senior Year)**

This program will provide students with the hands-on training required to become a licensed cosmetologist. Students will gain knowledge and practice in hair styling, braiding, manicures, pedicures, facial treatments, and more in this 2-year course, including running a fully operational working salon senior year. Upon completion of the course, students will be eligible to take the Ohio State Board of Cosmetology exam to earn a cosmetology license.

## **DIGITAL DESIGN**

**Two year Course / 2 credits junior year; 3 credits senior year (KFHS) (Lab Fee)**  
**Career Education (Digital Design Block Program Course) (Elective Credit)**  
**Course Code - 85311-11 (Junior Year) or**  
**Course Code - 85351-12 (Senior Year)**

This is a 2-year program designed to provide students with basic job skills and knowledge required for successful careers in commercial art and offset printing. During the junior year, students are instructed in the uses of computers, materials, tools, and equipment used in the pre-press and printing areas. The senior year provides the student with a more in-depth study of computer software and its use in preparing copy for printing and job shop experience in offset printing. Areas of instruction include design and layout, copy preparation, desktop publishing, photography, stripping, platemaking, press operation, and finishing and binding.

## **FIRE SCIENCE**

**Two year Course / 2 credits junior year; 3 credits senior year (KFHS) (Lab Fee)**  
**Career Education (Fire Science Block Program Course) (Elective Credit)**  
**Course Code - 85451-11 (Junior Year) or**  
**Course Code - 85551-12 (Senior Year)**

This is a 2-year program which will prepare students interested in pursuing a career as a firefighter or EMT for this exciting, in-demand job field. Students will be guided through instruction in Fire, EMC, technical rescue, and emergency vehicle operation. Upon completion of the course, students will be eligible to test for state firefighter I and II cards as well as the EMT-basic state certification. Students are encouraged to continue their education by transferring into a paramedic program at a post-secondary institution of their choice.

## **MEDICAL ASSISTING**

**Two year Course (KFHS)**  
**Two year Course / 2 credits junior year; 3 credits senior year (KFHS)**  
**Career Education (Medical Assisting Block Program Course) (Elective Credit)**  
**Course Code - 85801-11 (Junior Year) or**  
**Course Code - 85851-12 (Senior Year)**

2-year program where students can begin training for in-demand occupations which require 2-year medical degrees through acquiring both clinical and administrative healthcare-related skills. Learn skills to work in medical offices, clinics, urgent care centers, and in general medicine or specialty practices. Students will be eligible to earn first aid and STNA industry credentials, with credentialed seniors able to intern as state tested nursing assistants at local healthcare facilities. If you like to help others, consider this high-demand field today!

The following programs are a part of the Career Education Department but do not qualify as Tech Prep Programs. Acceptance into these programs requires a guidance counselor or unit principal recommendation.

## **ADVANCED MANUFACTURING BLOCK COURSES**

### **ISE 1201 & 1202 - ADVANCED MANUFACTURING 1**

Junior Year / 3.333 HS credits (10 college credits)

Career Education Dept. (Advanced Manufacturing Block Program Course) (Elective Credit)

Course Code - C11671, ISE 1201

Course Code - C11673, ISE 1202

Course Code - C11109, MAT 1120

This class is taught at CHS as a College Credit Plus (CCP) class with Sinclair Community College. It is a 2-year, one period a day program. Advanced Manufacturing 1 covers Industrial Safety and Quality & Measurement through MSSC-Manufacturing Skills Standards Council. Along with MSSC, the student will be learning about hand tools, mechanics, measurement, and energy systems by working on Briggs and Stratton engines. Students will be able to take a Certification Exams in Safety and Quality & Measurement to earn industry credentials towards a Certified Production Technician Certificate. Please see the Career Education Principal, Career Education Counselor, or Mr. Muhlenkamp for more information. Industry tours will be a part of this class. There is also a Technical Math class that goes with this class.

### **ISE 1203 & 1204 - ADVANCED MANUFACTURING 2**

Senior Year / 1.333 HS credits (4 college credits)

Career Education Dept. (Advanced Manufacturing Block Program Course) (Elective Credit)

Course Code - C11672, ISE 1203

Course Code - C11674, ISE 1204

This class is a continuation of Advanced Manufacturing 1 (second year) and is taught at CHS as a College Credit Plus (CCP) class with Sinclair Community College. This class will cover MSSC Processes/Production and Industrial Maintenance. Students will be introduced to cutting, drilling, and machining, welding, electronics, hydraulics, pneumatics, and drive systems. Industry tours will be a part of this class. Credentials available are Industry Processes/Procedures and Maintenance. There is also a Technical Math class that goes with this class. Prerequisite: Advanced Manufacturing 1. (Seniors may take Advanced Manufacturing 1 and 2 if needed.)

## STATE TESTED NURSING ASSISTANT (STNA) PROGRAM

The State Tested Nursing Assistant (STNA) program is a College Credit Plus (CCP) program through Sinclair Community College in partnership with Centerville City Schools. Students in this program must meet the criteria and complete the requirements for participation in CCP. This is a senior only program. Courses offered within this pathway will prepare eligible Centerville High School students to enroll, complete, and test to become licensed STNAs through the ALH 1120 course. This course prepares students to sit for the Ohio Department of Health competency evaluation to work as Nurse Aides, Home Health Care Aides, or Patient Care Assistants. In addition to the ALH 1120 course, students will be able to enroll in other allied health courses to help them build a stronger foundation in the medical field and meet course prerequisites for Sinclair Health Sciences certificates or degrees.

Students who complete this program and pass the required state assessments will earn an STNA credential for the state of Ohio. STNA coursework will be completed in the first semester of the school year providing time in the second semester for students to participate in work-based learning at local health care facilities. Students in this program will travel to the Sinclair Community College campus on Clio Road four days a week (Monday through Thursday) for class during 6th and 7th period.

### **ALH 1101 - INTRODUCTION TO HEALTHCARE DELIVERY**

Semester Course / .666 HS credit (2 college credits)

Career Education Dept. (STNA Block Program Course) (Elective Credit)

This course is an orientation to the health care delivery system, including history, economics, medical/legal issues, professionalism, ethics, sociological aspects, and wellness concepts. Orientation to the use of technology in the health care system will also be provided, including user interfaces, telecommunications, and networks. The development of health care team skills, including critical thinking and problem-solving strategies, and multicultural health care perspectives, will be presented. One classroom, 3 lab hours per week.

### **ALH 1120 - NURSE AIDE TRAINING**

Semester Course / 1 HS credit (3 college credits)

Career Education Dept. (STNA Block Program Course) (Elective Credit)

This course provides education to individuals in the basic skills necessary to provide personal care services and activities, under the delegation and supervision of a registered or licensed practical nurse, to residents in a long-term care facility. 3 classroom, 3 clinical lab hours per week.

## OTHER CAREER EDUCATION BLOCK COURSES

### **CAREER BASED INTERVENTION - (CBI) 1 (Junior Year) and 2 (Senior Year)**

Two year Course / 5 credits per year (Lab Fee)

Career Education Dept. (Elective Credit)

This program focuses on job-related information, employee safety, math, and English subjects. CBI 1 and 2 students attend school a minimum of 3 hours per day and must experience a minimum of 15 hours per week at an approved CBI cooperative work site.

### **READING BRIDGES 9**

Placement from English 9 teacher

Year course / 1 credit

English Dept. (English Credit)

Bridges Reading is a 1-year course taken with teacher placement, designed to be taken concurrently with English 10. It is a 1-year course aligned with the Ohio Learning Standards for English and topics for students who need continued preparation with English skills and concepts.

# NON-DEPARTMENTAL ELECTIVE COURSES



## COURSE DESCRIPTIONS

### **CAPE PEER TUTORING**

Semester Course / .5 credits

Non-Departmental Elective Courses (Elective Credit)

Course Code - 17151

CAPE Peer Tutoring is a unique opportunity offered for students wishing to assist individuals with disabilities during modified gross motor, sport-related, and fitness based activities. This program is appropriate for students interested in helping others with disabilities and/or pursuing a career in education, sports medicine, therapy, recreation, etc. Students acting as peer tutors will assist individuals with disabilities as they participate in a variety of modified physical activities designed to meet their specific needs. In addition, the CAPE program will address a modified version of the Ohio Physical Education Standards for students with disabilities. Adapted Physical Education is designed for students with specific gross motor needs that benefit from an individualized and modified physical education curriculum. This individualized learning is made possible through the involvement of peer tutors who work under the guidance and direction of the CAPE instructor. Activities are designed for individuals with disabilities in order to allow for progression in their physical and cognitive skills, and peer tutors play an integral role to assist in this growth process. This course will not count toward PE credit but will be offered as 1/2 elective credit.

### **DIGITAL PHOTOGRAPHY**

Semester course / .5 credit (Lab Fee)

Non-Departmental Elective Courses (Elective Credit)

Course Code - 1907

This course introduces students to the art of photography. Students will develop a vocabulary for describing, analyzing, interpreting, and judging photographic images. They will understand and apply the elements of photography and the principles of composition in developing their own sense of style. Students will use artistic intent and processes to capture, develop, print, and present multiple images. Students explore photography's historical and cultural context, along with contributions of important photographers to the art form.

### **FINANCIAL LITERACY**

Semester Course / .5 credit (Lab Fee)

Non-Departmental Elective Courses (Elective Credit)

Course Code - 1515

Financial Literacy is defined as the ability to read, analyze, manage, and communicate about personal financial conditions that affect one's material well-being. It includes the ability to discern financial choices, discuss money and financial issues without (or despite) discomfort, plan for the future, and respond completely to life events that affect everyday financial decisions, including events in the general economy. Topics covered in this course include: financial responsibility and decision making, planning and money management, the informed consumer, investing, credit and debt, and risk management and insurance.

*This course is a graduation requirement beginning with the class of 2026.*

### **VIDEOGRAPHY**

Semester course / .5 credit (Lab Fee)

Non-Departmental Elective Courses (Elective Credit)

Course Code - 18331

This course offers an introduction to digital video camera use and editing. Students will record and edit their own projects. Students will explore video's historical and cultural context, and gain an understanding of television news, advertising, and film making.

## **YEARBOOK**

**Year course / 1 credit (Lab Fee)**

**Non-Departmental Elective Courses (Elective Credit)**

**Course Code - 1908**

This course will create the nationally ranked Elkonian Yearbook. Students will learn techniques and skills used in publishing from graphic design and layout to journalistic writing, reporting, and photography to create and publish the Elkonian Yearbook. In addition to creating the yearbook, students will be responsible for advertising and marketing the Elkonian Yearbook.

# OTHER AP COURSES



## COURSE DESCRIPTIONS

### HONORS AP RESEARCH

Year course / 1 credit (Lab Fee)

Other AP Course

Course Code - 1061

The second course in the AP Capstone experience, this course allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense. Students should take the Advanced Placement Exam in May. This course is recommended for students in grades 11-12. Prerequisite: AP Seminar.

# SPECIAL EDUCATION COURSES



## COURSE DESCRIPTIONS

### SPECIAL EDUCATION COURSE DESCRIPTIONS

Eligibility for special education services is determined by an evaluation team. Students may be determined eligible for special education programs in one of several categories. Categories specified in the State of Ohio Rules for Special Education include Autism, Blind & Visually Impaired, Deaf & Hearing Impaired, Deafblind, Emotional Disturbances, Intellectual Disability, Multiple Disabilities, Orthopedic Impairment, Other Health Impairments, Specific Learning Disability, Speech or Language Impairment, Twice Exceptional Student, and Traumatic Brain Injury.

Once eligibility is determined, an Individualized Education Program (IEP) is developed by a team of people knowledgeable about the student. The IEP specifies annual goals and short-term objectives for the student, along with the special education services and/or classes needed to work towards those goals. An annual review conference is held to review the student's progress and to develop another IEP, if appropriate, for the following year. The IEP team will also provide guidance for course selection. Classes for students with special needs are available in the following academic areas; English, Math, Science, Social Studies, and Health. Students with special needs who participate in general education classes may receive support as needed from an Intervention Specialist. These teachers are available to modify and accommodate classroom materials and to provide occasional in-class support.

# PROGRAMS

## **CO-TAUGHT PROGRAM**

This program serves students in grades 9-12 who may benefit from having a content teacher and intervention specialist present on a daily basis. Co-taught sections are restricted to English, Math, Science, and Social Studies courses. Placement is based on the recommendations of the IEP team and on the availability of sections.

## **CO-SERVE PROGRAM**

This program serves students in grades 9-12 who may benefit from having additional support from an intervention specialist on an as-needed basis. The co-serve program is limited to English, Math, Science, and Social Studies courses. Coordination of assistance is facilitated by the content teacher and intervention specialists.

## **SKILLS PROGRAM**

This program consists of courses designed to meet graduation requirements. Courses in the program are for students who are best served in a smaller and more supportive classroom. Placement is based on the recommendations of the IEP team. (Lab Fee)

## **AFFECTIVE COMPREHENSIVE EDUCATION PROGRAM (ACE)**

This program serves students in grades 9-12. As a resource room, the unit has the capacity to provide instruction for courses leading to graduation. The level of inclusion for each student is determined by the IEP team based on academic achievement and behavioral needs. The ACE unit staff is available to support the students and staff in the regular-education environment utilizing a wide variety of interventions. Individual counseling is provided as determined by the student's IEP with crisis counseling and family consultation on an as-needed basis. (Lab Fee)

## **LIFE SKILLS, INDEPENDENCE & FUNCTIONAL EDUCATION PROGRAM (LIFE)**

This program is designed to teach skills leading to adult independence that will translate to students living in and participating in their community. The program encompasses functional living skills, communication skills, prevocational skills, and participation in community activities. When appropriate, functional academic skills and socialization take place in natural settings. Students enrolled in the LIFE program will earn credits that will meet the requirements for graduation from Centerville High School. (Lab Fee)

## **INTEGRATED TRANSITION OPTIONS PROGRAM (ITOP)**

This program is designed to provide students who have met their high school graduation requirements an option to continue to develop their independent living and vocational skills until age 22 as they transition from high school to adult life. The goal is to maximize participants' level of independence in the areas of: academics, independent living skills, community awareness, career exploration, and job training. This program is located off campus with links to the community for training, volunteerism, and leisure/recreational activities. The career fields of study are based on student interests. Some examples include: animal care, child care, dietary, environmental services, grounds/landscaping, health care, hospitality, office/clerical, and retail (based on community availability and student age). Individuals are considered for placement in this program based on their Individual Education Plan. This program is staffed by a Job Training Transition Coordinator, an Intervention Specialist, and paraprofessionals. (Lab Fee)

# COURSES

Students will take courses from the general course of studies and the courses below based on the IEP team recommendations. These courses are designed to meet the Ohio Learning Standards and graduation requirements for the State of Ohio.

## ENGLISH (Special Education)

### **ENGLISH 9 / 10 SKILLS**

Year course / 1 credit (Lab Fee)

Special Education Dept. (English Credit)

Scheduled by the Student's Intervention Specialist

English 9/10 Skills Course Code - 7800

A comprehensive English course utilizing the Ohio Learning Standards. The course has two basic emphases: the study of literature of various genres and the study of composition through the writing process. Incorporated into the program is work with vocabulary, grammar and usage, speaking and listening. Students will take the ELA Ohio State Test during the spring of their sophomore year.

### **ENGLISH 11 / 12 SKILLS**

Year course / 1 credit (Lab Fee)

Special Education Dept. (English Credit)

Scheduled by the Student's Intervention Specialist

English 11/12 Skills Course Code - 7804

A comprehensive English course utilizing the Ohio Learning Standards. The course has two basic emphases: the study of literature of various genres and the study of composition through the writing process. Incorporated into the program is work with vocabulary, grammar and usage, speaking and listening. Emphasis is placed on real-world applications of language arts skills.

### **SOCIAL COMMUNICATIONS**

Semester Course / .5 credit (Lab Fee)

Special Education Dept. (English Credit)

Scheduled by the Student's Intervention Specialist

Social Communications Course Code - 1719

Social Communications is a course designed for students who need a structured safe environment to practice, expand, and shape their communications skills. Students will be expected to demonstrate proficient problem solving, critical thinking, planning, organizing, and negotiation skills through a variety of group projects. Social communications is open to students 9-12.

### **LITERACY INTERVENTION 1**

Semester course / .5 credit (Lab Fee)

Special Education Dept. (English Credit)

Scheduled by the Student's Intervention Specialist

Literacy Intervention 1 Course Code - 7201

Literacy Intervention 1 is a course that is designed to support the student's literacy needs. Emphasis is placed on improving reading and writing to support students in their courses.

## **LITERACY INTERVENTION 2**

**Semester course / .5 credit (Lab Fee)**

**Special Education Dept. (English Credit)**

**Scheduled by the Student's Intervention Specialist**

**Literacy Intervention 2 Course Code - 7202**

Literacy Intervention 2 is a course that is designed to continue to support the student's literacy needs. Continued emphasis is placed on improving reading and writing to support students in their courses.

## **LIFE ENGLISH**

**Year Course / 1 credit (Lab Fee)**

**Special Education Dept. (English Credit)**

**Scheduled by the Student's Intervention Specialist**

**LIFE English Course Code - 7912**

Life Skills, Independence & Functional Education (LIFE) English is a course based on the Ohio Learning Standards-Extended. The course is designed to meet the reading and writing needs of the individual student based on their Individualized Education Plan. There will be an emphasis on the functional skills that will allow the student to progress as far as possible towards independence.

# MATHEMATICS

## (Special Education)

### **ALGEBRA 1A SKILLS**

Year course / 1 credit (Lab Fee)  
Special Education Dept. (Math Credit)  
Scheduled by the Student's Intervention Specialist  
Algebra 1A Skills Course Code - 7812

Algebra 1A is a 1-year course designed to cover the first half of the Ohio Learning Standards for Algebra. Areas of focus include number and quantity, functions (linear, absolute value, etc.), statistics and probability. Real-world application and modeling is woven into all areas of focus.

### **ALGEBRA 1B SKILLS**

Year course / 1 credit (Lab Fee)  
Special Education Dept. (Math Credit)  
Scheduled by the Student's Intervention Specialist  
Algebra 1B Skills Course Code - 7816

Algebra 1B is a course designed to cover the second half of the Ohio Learning Standards for Algebra. Areas of focus include number and quantity, functions (quadratic, and exponential), statistics and probability. Real-world application and modeling is woven into all areas of focus. Students will take the Algebra Ohio State Test at the end of this course.

*Students enrolled in this course are required to take the End of Year State Assessment.*

### **QUANTITATIVE REASONING SKILLS**

Year course / 1 credit (Lab Fee)  
Special Education Dept. (Math Credit)  
Scheduled by the Student's Intervention Specialist  
Quantitative Reasoning Skills Course Code - 7820

This course is the application of basic mathematics skills, such as algebra, to the analysis and interpretation of quantitative information (numbers and units) in real-world contexts of science, technology, and/or society to make decisions relevant to daily life. Critical thinking is its primary objective and outcome. It emphasizes interpretation, representation, calculation, analysis/synthesis, assumptions, and communication. It is designed to promote reasoning, problem-solving, and modeling. Students will focus on the process of taking a real-world situation, identifying the mathematical foundation needed to address the problem, solving the problem, and applying what is learned to the original situation.

### **CONSUMER MATH SKILLS**

Year course / 1 credit (Lab Fee)  
Special Education Dept. (Math Credit)  
Scheduled by the Student's Intervention Specialist  
Consumer Math Skills Course Code - 7824

Consumer Math is a course designed to meet the Ohio Learning Standards. This course focuses on developing consumer mathematics and life skills that are necessary upon graduation. Some of these topics include financial planning, budgeting, banking, investing, credit, taxes, housing, home repair and improvements, travel, and other uses of mathematics in daily life. Emphasis is placed on real-world applications of math skills.

## **LIFE MATH**

**Year Course / 1 credit (Lab Fee)**

**Special Education Dept. (Math Credit)**

**Scheduled by the Student's Intervention Specialist**

**LIFE Math Course Code - 7900**

Life Skills, Independence & Functional Education (LIFE) is a course based on the Ohio Learning Standards-Extended. The course is designed to meet the math needs of the individual student based on their Individualized Education Plan. There will be an emphasis on the functional skills that will allow the student to progress as far as possible towards independence.

# SCIENCE

## (Special Education)

### **PHYSICAL SCIENCE SKILLS**

Year course / 1 credit (Lab Fee)  
Special Education Dept. (Science Credit)  
Scheduled by the Student's Intervention Specialist  
Physical Science Skills Course Code - 7832

This course presents a survey of introductory physical science topics emphasizing chemistry, physics, and space science. Students will be exposed to various laboratory techniques and laboratory safety. This course serves the purpose of building a good science foundation and providing a desirable background to continue studying science.

### **BIOLOGY SKILLS**

Year course / 1 credit (Lab Fee)  
Special Education Dept. (Science Credit)  
Scheduled by the Student's Intervention Specialist  
Biology Skills Course Code - 7836

Biology Skills is a life science course designed to cover the Ohio Learning Standards for Biology. This course covers areas of ecology, population biology, biochemistry, cells, energy transfers genetics, DNA, human genetics, Earth's history, evolution, and taxonomy.

### **STEM SKILLS 1**

Year course / .5 credit (Lab Fee)  
Special Education Dept. (Science Credit)  
Scheduled by the Student's Intervention Specialist  
Stem Skills 1 Course Code - 7840

STEM Skills 1 is a course designed to provide students an interdisciplinary study of science, technology, engineering, and math. Students will work on digital literacy skills, virtual labs, hands-on labs, Brainpop activities, including movie making, 3D computer generated designs, 3D printing, STEM building, and activities.

### **STEM SKILLS 2**

Year course / .5 credit (Lab Fee)  
Special Education Dept. (Science Credit)  
Scheduled by the Student's Intervention Specialist  
Stem Skills 1 Course Code - 7841

STEM Skills 2 is a course designed to provide students an opportunity to continue an interdisciplinary study of science, technology, engineering, and math. Students will work on coding skills using online software, Brainpop coding activities, Google Suite, virtual labs, hands-on labs, and coding robots using computer software, robot software, and remote control. Students will continue STEM building and activities while also learning how to use apps on iPads for scanning groceries and more.

### **LIFE SCIENCE**

Year Course / 1 credit (Lab Fee)  
Special Education Dept. (Science Credit)  
Scheduled by the Student's Intervention Specialist  
LIFE Science Course Code - 7904

Life Skills, Independence & Functional Education (LIFE) is a course based on the Ohio Learning Standards-Extended. The course is designed to meet the science needs of the individual student based on their Individualized Education Plan. There will be an emphasis on the functional skills that will allow the student to progress as far as possible towards independence.

# SOCIAL STUDIES

## (Special Education)

### **MODERN WORLD HISTORY SKILLS**

Year course / 1 credit (Lab Fee)

Special Education Dept. (Social Studies Credit)

Scheduled by the Student's Intervention Specialist

Modern World History Skills Course Code - 7848

This semester course will focus on significant world events, people, and places from 1688 through the 20th century. This course will introduce students to historical ideas and events that have shaped the world today. The historical content covered in the class will be studied from a social, political, and economic perspective as students learn about regions across the globe. Content will include subjects ranging from the enlightenment to world revolutions to the Cold War. Emphasis will be on establishing skills to critically analyze and interpret events from various time periods and regions.

### **U.S. HISTORY SKILLS**

Year course / 1 credit (Lab Fee)

Special Education Dept. (Social Studies Credit)

Scheduled by the Student's Intervention Specialist

US History Skills Course Code - 7852

10th grade U.S. History focuses on the study of U.S. history from 1865 to the present. Students will explore cultural heritage, world interactions, democratic processes, decision-making and resources, and citizenship rights and responsibilities. Textbooks, lectures, video and audio resources, simulations, writing assignments, and various computer activities are used to involve the student in the examination of our nation's history and in the critical thinking process necessary to offer solutions to problems encountered by its people.

### **U.S. GOVERNMENT AND CITIZENSHIP SKILLS**

Year course / 1 credit (Lab Fee)

Special Education Dept. (Social Studies Credit)

Scheduled by the Student's Intervention Specialist

US Government and Citizenship Skills Course Code - 7856

The goal of this semester course is to study the structure of our U.S. Government and to compare it to other types of governments. The student also studies the behavior of citizens in making our government work. Students learn the law-making process through the experience of debating legislation. Additionally, students will gain an understanding of personal financial literacy and its relationship to the global economy.

### **LIFE SOCIAL STUDIES**

Year Course / 1 credit (Lab Fee)

Special Education Dept. (Social Study Credit)

Scheduled by the Student's Intervention Specialist

LIFE Social Studies Course Code - 7908

Life Skills, Independence & Functional Education (LIFE) is a course based on the Ohio Learning Standards-Extended. The course is designed to meet the social studies needs of the individual student based on their Individualized Education Plan. There will be an emphasis on the functional skills that will allow the student to progress as far as possible towards independence.

# HEALTH & PHYSICAL EDUCATION

## (Special Education)

### **HEALTH & LIFE SKILLS 1**

Year course / .5 credit (Lab Fee)

Special Education Dept. (Health Credit)

Scheduled by the Student's Intervention Specialist

Health and Life Skills 1 Course Code - 7240

Health Skills is a course designed to cover the Health topics outlined in the Ohio Learning Standards.

### **HEALTH & LIFE SKILLS 2**

Year course / .5 credit (Lab Fee)

Special Education Dept. (Health Credit)

Scheduled by the Student's Intervention Specialist

Health and Life Skills 2 Course Code - 72401

Health Skills 2 is a course designed to cover the Health topics outlined in the Ohio Learning Standards for students who wish to take an additional semester.

### **ADAPTIVE PHYSICAL EDUCATION**

Year course / .25 credit (Lab Fee)

Special Education Dept. (Physical Education)

Scheduled by the Student's Intervention Specialist

Adaptive Physical Education Course Code - 1709

Adaptive Physical Education is a course designed to provide adaptive experiences to help students engage in the Ohio Learning Standards for Physical Education.

### **INTEGRATED TRANSITION OPTIONS PROGRAM (ITOP)**

Year Course / 6 credits (Lab Fee)

Special Education Dept. (Elective)

Scheduled by the Student's Intervention Specialist

Integrated Transitions Options Course Codes - 73051, 73052, 73053, 73054, 73055

This program is designed to provide students who have met their high school graduation requirements an option to continue to develop their independent living and vocational skills until age 22 as they transition from high school to adult life. The goal is to maximize participants' level of independence in the areas of: academics, independent living skills, community awareness, career exploration, and job training. This program is located off campus with links to the community for training, volunteerism, and leisure/recreational activities. The career fields of study are based on student interests. Some examples include: animal care, child care, dietary, environmental services, grounds/landscaping, health care, hospitality, office/clerical, and retail (based on community availability and student age). Individuals are considered for placement in this program based on their Individual Education Plan. This program is staffed by a Job Training Transition Coordinator, an Intervention Specialist, and paraprofessionals. (Lab Fee)

# ELECTIVES

## (Special Education)

### **ACADEMIC ASSISTANCE**

Semester Course / .5 credit  
Special Education Dept. (Elective)  
Scheduled by the Student's Intervention Specialist  
Course Code - 7118

Academic Assistance is a structured support class designed for students with Individualized Education Programs (IEPs) who require additional academic support to be successful in their general education classes. This class provides a consistent, scheduled environment where students work under the guidance of an Intervention Specialist to address their academic needs and IEP goals. The Intervention Specialist will monitor and document IEP service minutes, deliver small-group or individualized **specially designed instruction (SDI)**, and ensure students receive the accommodations and modifications outlined in their IEPs. Academic Assistance may also be used to complete accommodations that cannot be implemented in co-taught settings due to scheduling or resource limitations.

Students will use class time to: Work toward mastery of IEP goals, receive targeted instruction and academic interventions, complete assignments with support, develop strategies for organization, study skill, and self-advocacy.

### **ACADEMIC TRANSITIONS 1 (ATC 1)**

Semester course / .5 credit (Lab Fee)  
Special Education Dept. (Elective)  
Scheduled by the Student's Intervention Specialist  
Academic Transitions 1 Course Code - 7112

Academic Transitions 1 is a semester course for students interested in developing high school and post-high school study skills including preparing for tests, managing time, and staying organized. Students will learn how to access available resources and use assistive technology to improve academic skills. Additional topics include motivation, memory, learning differences, and self-advocacy. Students will set goals, monitor grades, identify missing assignments, and track study habits on a weekly/daily basis.

### **ACADEMIC TRANSITIONS 2 (ATC 2) (teacher recommendation only)**

Semester course / .5 credit (Lab Fee)  
Special Education Dept. (Elective)  
Scheduled by the Student's Intervention Specialist  
Academic Transitions 2 Course Code - 7113

Academic Transitions 2 is a semester course for students who have completed ATC 1 and need additional time during the day to complete assignments, study for tests, and stay organized. Students earn a 1/2 of an elective credit and are graded Pass/Fail. To "Pass" ATC 2, students need to participate in the Daily Habits introduced in ATC 1. Prerequisites: ATC 1 and teacher recommendation.

### **WORK LAB**

Semester course / .5 credit (Lab Fee)  
Special Education Dept. (Elective)  
Scheduled by the Student's Intervention Specialist  
Work Lab Course Code - 7270

Work Lab is a semester class designed to improve students' job skills and relevant soft skills through lectures, themes, practical applications, and completion of tasks. The goal of Work Lab is to challenge, empower, and support students with the education and confidence that will enable them to be self-supporting citizens, post graduation.

### **WORK STUDY**

Semester course / .25 to 4 credits  
Special Education Dept. (Elective)  
Scheduled by the Student's Intervention Specialist  
Work Study Course Code - 7600

Work study is a semester class designed to provide career exploration and on the job experience. Students may earn up to 4 elective credits per year, based on hours worked in the community.

## **FINANCIAL LITERACY SKILLS**

**Semester course / .5 credit (Lab Fee)  
Special Education Dept. (Elective)  
Scheduled by the Student's Intervention Specialist  
Financial Literacy Skills Course Code - 7864**

Financial Literacy is defined as the ability to read, analyze, manage, and communicate about personal financial conditions that affect one's material well-being. It includes the ability to discern financial choices, discuss money and financial issues without (or despite) discomfort, plan for the future, and respond completely to life events that affect everyday financial decisions, including events in the general economy. Topics covered in this course include: financial responsibility and decision making, planning and money management, the informed consumer, investing, credit and debt, and risk management and insurance.

*This course is a graduation requirement beginning with the class of 2026.*

## **SUPERVISED STUDY 1**

**Semester course / .5 credit (Lab Fee)  
Special Education Dept. (Elective)  
Scheduled by the Student's Intervention Specialist  
Supervised Study 1 Course Code - 7437**

Supervised Study 1 is a semester course designed for students in the ACE program. This course helps support the academic and social-emotional needs of students.

## **SUPERVISED STUDY 2**

**Semester course / .5 credit (Lab Fee)  
Special Education Dept. (Elective)  
Scheduled by the Student's Intervention Specialist  
Supervised Study 2 Course Code - 74371**

Supervised Study 2 is a semester course designed for students in the ACE program. This course helps support the academic and social-emotional needs of students.

# RELATED SERVICES

## (Special Education)

### **WORK STUDY/TRANSITION COORDINATOR**

The related service provider works in cooperation with the student, the IEP team, community contacts, and the parents to assist students in achieving the goal of graduating from high school with the vocational skills, work experience, and education that will enable them to be self-supporting citizens. In order to help students achieve this goal, a WS/TC may assist in the development and delivery of a continuum of services which may include: career planning, job seeking skills, career assessment, employer contact, job shadowing, job placement, career education referrals to adult services agencies, post-secondary training decisions.

### **VOCATIONAL SPECIAL EDUCATION/TRANSITION COORDINATOR**

This related service provider works with students who have an Individual Education Plan and are enrolled in a Career Education Program. The VOSE/TC provides support services for these students which may include: assisting in the development of the IEP, monitoring student progress in accordance with the IEP, development and modification of curriculum and materials, providing supplemental instruction as needed, development of teaching and management strategies, developing the required school to work transition plan, and serving as liaison to parents, teachers, and students.

### **JOB TRAINING/TRANSITION COORDINATOR**

This related service provider facilitates a variety of transition services to students who have an Individual Education Plan. These services, based on individual student interests and abilities, may include: career planning and exploration, job-shadowing, on-the-job training, community agency referrals and assessments, development of employment opportunities, follow along, and job retention. Although candidates for these services typically participate in the Integrated Transition Options Program, all students who have Individual Education Plans are eligible.

### **SPEECH-LANGUAGE THERAPIST**

This related service provider works to prevent, assess, diagnose, and treat speech, language, social communication, cognitive-communication, and swallowing disorders in children. In addition, speech-language pathologists provide training and education to families, caregivers, and other professionals. Additionally, they provide counseling, consultative services, and work collaboratively with professionals in the educational arena to determine supports and services for the whole child.

### **OCCUPATIONAL THERAPIST**

This related service provider works with students to support a student's ability to participate in expected daily school routines, activities, or "occupations" by supporting academic achievement, promoting positive behaviors necessary for learning, and preparing students for life after graduation. Occupational therapy practitioners assist the educational team in addressing both mental and physical health in collaboration with a variety of partners, including students and parents.

### **PHYSICAL THERAPIST**

This related service provides a wide array of services within the school setting. They bring expertise in the realms of child development, orthopedic (bone and body alignment) development, and neurological and brain systems that govern motor control, sensory awareness and feedback, and emotional regulation and behavior. Additionally, they promote an environment conducive to the facilitation of developmental motor skills.

Other Related Service providers as needed may include, but are not limited to: Educational Audiologist, Orientation and Mobility Specialists, School Nurse, Teacher of the Hearing Impaired, etc.