

# Beavercreek High School



## Program of Studies

2019 – 2020

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## **To The Parents and Students of Beaver Creek High School:**

The information contained in this booklet is to assist you in planning your educational program at Beaver Creek High School. This booklet is designed to provide the information for cooperative planning to meet your educational objectives. You are invited to call and arrange a conference with your counselor concerning your educational program. Choose your program of study wisely with consideration for abilities, interests, and goals.

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Mrs. Kristi Massey, College/CCP Counselor

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## **Beaver Creek High School Mission Statement**

Beaver Creek High School, with a strong commitment to making education the priority of the entire school community, recognizes the intellectual and cultural uniqueness of its students.

The purpose of Beaver Creek High School is to promote the intellectual, social, physical, and creative development of all its students as well as to encourage development of the opportunity to become involved in decisions affecting their lives. Professional staff will accommodate individual needs and goals of all students by providing a diverse curriculum, current materials and media, a variety of extra-curricular activities, and an atmosphere that encourages mutual respect.

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## Credits Recommended for College Preparatory Students

English Language Arts	4 credits
Social Studies	3 credits
Mathematics	4 credits (including Algebra, Geometry, & Algebra II)
Science	3 credits
World Language	3 credits (the same language)
Fine Arts	1 credit (Art, Music, Drama)

These are the high school credits required by most colleges and universities. Most colleges also require either the ACT or SAT for admission.

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## Fees

Many courses have a charge for lab fees and/or other materials. Most of these costs are listed near the course descriptions; however, there may be additional costs associated with some specific classes. Other fees include a \$40 for graduation.

Course fees are approved at the June School Board meeting and are subject to change.

# BEAVERCREEK HIGH SCHOOL GRADUATION REQUIREMENTS

Year of Graduation 2020 & Beyond

Total Credits

Required for Graduation **21**

## Required Credits

English Language Arts (ELA) 4

English 9, English 10, English 11, English 12 or AP

Science 3

Physical Science, Biology, and Advanced Science

Math 4

Algebra I, Geometry, Algebra II, and an elective

Social Studies 3

World History, U.S. History (*State required Financial Literacy is taught in this course*), Government

Health 1/2

Physical Education 1/2

2 semester classes

Fine Arts 1

Choose from:

- Art classes taken in grades 9–12
- Music classes taken in grades 9-12
- Acting I/II taken in grades 9-12

Electives 5

Elective credits are needed to complete total credit requirements for graduation.

Electives should be from a combination of the following areas:

- Business
- Practical Arts
- Fine Arts
- World Language
- Electives from core areas

**\*Completion of 18 “End of Course Tests” required by the State of Ohio Department of Education.**



## State Testing Information

Starting with the Class of 2018, all students are required to take the following seven tests:

- *ELA I (English 9) & ELA II (English 10)*
- *Algebra I & Geometry*
- *Biology*
- *American History & Government*

State Tests scores range from 1 to 5 points as outlined below:

PERFORMANCE LEVEL	GRADUATION POINTS
Advanced	5
Accelerated	4
Proficient	3
Basic	2
Limited	1

### **GRADUATION POINTS**

One pathway that students may use to meet the test requirement for graduation is to accumulate 18 out of a possible 35 points on their seven end of course exams. In addition to acquiring 18 points, students must meet certain minimum points in specific content areas as follows:

- Students must earn at least 4 combined points in ELA I (English 9) & ELA II (English 10)
- Students must earn at least 4 combined points in Algebra I & Geometry
- Student must earn at least 6 combined points in Science (Biology) and Social Studies (American History and Government) tests
- This means that students can earn Limited and/or Basic scores in some areas but still reach the required 18 points for graduation.
- Students will have the opportunity to retake any test and gain a higher score every fall and every spring through the fall of their senior year of high school.

## **COLLEGE AND CAREER READINESS TEST**

Another option that students may use is a college and career readiness test. Our district has chosen to use the ACT for this purpose. Beavercreek High School will be giving all junior students the ACT on February 27, 2018. There will be no cost to students.

Students must earn “remediation free” scores in each of the three sub score areas, two in English language arts and one in Mathematics. These scores are listed below.

### **English Language Arts\*:**

English sub score of 18 or higher

Reading sub score of 22 or higher

### **Mathematics:**

Mathematics sub score of 22 or higher

*\*These scores are subject to change in the future*

Each student may use the highest score in each sub score from multiple administrations of the ACT to meet the student’s graduation requirement option. This would include the state-funded administration in the spring of their junior year, and additional attempts that students take and fund through non-state resources during their academic years.

Please remember that these requirements are **in addition to** obtaining the credits required by the State of Ohio and Beavercreek City Schools.

# Instructions for Registration

## **CLASS LEVEL EXPLANATION**

English Language Arts, World languages, mathematics, science, and social studies courses are divided into levels of instruction: standard, scholarship, honors, and advanced placement (AP). The purpose of this division is to allow the student to work commensurate with the student's ability and/or prepare to take an AP examination. The grading scale is the same for all levels, but the quality points for scholarship courses are increased by .5 points. Honors and AP courses are increased by one point when figuring GPA.

The standard class is that of the traditional course. Standard class work is fully acceptable as college preparatory units of credit.

The scholarship and honors courses move at a more rapid pace than the standard offerings. Special projects may be required.

The Advanced Placement (AP) courses are designed to prepare students who wish to take the Advanced Placement Exam for the particular subject. The AP Exam permits students to omit and/or to gain credit for freshmen level courses at most colleges and universities. The fee for the exam is approximately \$95 and is to be paid by the student. The student who completes an AP course is expected to take the examination.

## **MINIMUM STUDENT LOAD**

Students must carry at least SIX (6) COURSES each semester. Exceptions require permission of the principal.

## **CLASS RANK**

Class rank is a numerical rank assigned to senior students according to the cumulative grade point average of all work given a letter grade in all high school courses. The rank is determined after six semesters. Class rank will be recalculated at the end of seven semesters for the top seniors.

## **CREDIT**

Normally one credit is received for a subject that meets one period each day for five days each week of the school year. Exceptions are listed in the course description.

## **ATHLETIC/CO-CURRICULAR ELIGIBILITY**

Students in grades 9-12 must maintain a minimum grade point average of 1.5 with no more than one failing grade. All courses must be weighed equally and awarded points as follows:

$$A = 4, B = 3, C = 2, D = 1, F = 0$$

Students must be enrolled in at least six classes, at least five of which must be full-year (or equivalent) full-credit courses. It is also a requirement that students receive passing grades in five full credit courses or their equivalent. (Note: Two individual semester academic classes paired with one another in the first and second semester qualify as a full year course.)

This policy shall apply to students participating in non-graded, interscholastic, extracurricular activities sponsored by the Beavercreek City School District. It includes, but is not limited to, all school athletic teams in grades 9-12, and all other groups or teams that compete against other schools, such as choral and instrumental music, dance team, chess team, speech and debate, and all competitive academic teams.

## **CREDIT FLEXIBILITY / EDUCATIONAL OPTIONS**

Credit Flexibility is available to meet students' needs of interest. It is designed to replace a course due to schedule conflicts or other certain provisions that make it impossible to schedule during a traditional school day.

All credit flex and educational options require written application and a detailed educational plan including instructional objectives, instructional activities, criteria for assessment, and a timeline. Credit Flex applications are available in the Main Office.

Credit Flex applications for summer and first semester are due the last day of the third quarter. Credit Flex applications for the second semester are due the last day of the first quarter.

# COLLEGE CREDIT PLUS (CCP)

## WHAT IS COLLEGE CREDIT PLUS:

College Credit Plus (CCP) is designed to help students earn college and high school credits at the same time by taking college courses from community colleges or universities. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to students in grades 7-12 who meet college admission requirements. As required by law, no fees will be charged to families for College Credit Plus classes taken through public universities.

## TIMELINE:

Students and parents are required to inform their school district that they intend to participate in the College Credit Plus program **by April 1** for the following year, by completing and returning the **Intent to Participate** packet.

## ADVANTAGES OF CCP FOR STUDENTS:

- Students may earn college credit and high school credit upon successful completion of the course.
- Increase the rigor and challenge of course offerings while in high school.
- Per HB 487, College Credit Plus courses must receive the equivalent weight as any weighted course within a given content area.
- Course tuition at public colleges/universities paid for by Beavercreek City Schools. Students choosing to enroll in a participating private college or university may incur limited costs.

## ELIGIBILITY:

- In order to participate in CCP students must meet requirements established by each college/university.
- To register for a class students must meet the prerequisite requirements outlined by the university or college in which they are attending.
- A student must provide his/her own transportation if taking courses on the college campus.

## SCHEDULING:

- Students taking College Credit Plus courses are subject to the rules and regulations of the university they are currently attending, including add, drop, and enrollment dates.
- Students must schedule a full BHS schedule prior to registering for college classes. The class schedule may be adjusted, as necessary, but not without cause. Students must have a schedule that equals full-time status.
- Students will not earn credit for college courses at the remedial level.
- BHS is not responsible for any scheduling conflicts between college courses and BHS classes and/or school activities. This includes credits needed prior to BHS commencement exercises.
- **It is your responsibility to make sure driving time is sufficient.**
- Federal financial aid may be impacted: federal guidelines limit the number of courses you may attempt (even if they are taken while in high school) to 150% of the number of credits needed for a degree.
- **It is the responsibility of student/parent to maintain close communication with both their BHS counselor and academic advisor at the university.**

## AMOUNT OF WORK/PACE/RIGOR:

- Courses taken on the college campus will be comprised of students of all ages enrolled at the college, not just students enrolled through CCP. While in college courses, students are introduced to a learning environment that promotes an open exchange of ideas. Course content is presented on an adult level and class discussions require an understanding of divergent viewpoints and the ability to think critically on controversial issues.

### **AMOUNT OF WORK/PACE/RIGOR: (CCP continued)**

- Students should understand that these courses are college-level courses, and the amount of work, pace, and rigor of content in college courses may be much greater than high school courses. In addition, college course grades become a part of a student's permanent college transcript and are calculated into the college grade point average. **Poor performance in college courses may affect future university admissions and financial aid.**

### **HIGH SCHOOL GRADUATION REQUIREMENTS:**

- No BHS graduation requirements will be waived for any student participating in College Credit Plus but College Credit Plus courses may be used to meet BHS graduation requirements.

### **FAILURE OR WITHDRAWAL FROM CCP COURSE:**

- **If a student fails or withdraws from any college course, the cost for tuition, fees, and books may be charged to the family.**
- No credit is awarded for a failed course.
- No coursework will be given Pass/Fail as a grade.
- If the failed course is a requirement for high school graduation, it must be retaken and completed before graduation.
- Proper paperwork must be filed with the university to withdraw. Upon withdrawal, the student must meet with BHS counselors to develop a new graduation plan and schedule.
- CCP courses and the grades associated with them will be reported on both the student's high school transcript as well as the college transcript.
- Failure to satisfactorily complete a college course for BHS credit may result in (but not be limited to) the following consequences:
  - a. Fees for dropped or failed class will be assessed
  - b. Failure to meet graduation requirements
  - c. Loss of commencement privileges
  - d. Negative effect on GPA and class rank
  - e. Loss of extra-curricular eligibility

### **ACADEMIC CREDIT (CCP TO BHS):**

- A college course earning 3 or more semester hours = 1 BHS credit.
- A college course earning less than 3 semester hours = a proportional fraction of a HS credit.  
For Example:
  - 2 semester hour college course = 0.66 credits at BHS.
  - 1 semester hour college course = 0.33 credits at BHS.
- Maximum number of hours allowed per school year in CCP program at college = 30 college hours AND cannot exceed 120 college credit hours over students' career.

### **WEIGHTED GRADES:**

- CCP courses will be awarded the same weight as AP courses, by subject area. If BHS does not offer an AP course in the subject, the CCP course will not be weighted.

### **EXTRACURRICULAR ACTIVITIES:**

- Students who participate in extracurricular activities must still meet eligibility requirements set by the school district and the OHSAA. Students must be enrolled and receive passing grades in courses that earn a minimum of 5 credits per year toward high school graduation. Eligibility is based on the courses taken in the preceding grading period. Students should check with a BHS counselor if they need to remain eligible for OHSAA sports.
- If the student plans on playing a sport in college, CCP courses may not be accepted for NCAA clearing house.

**COUNSELING SERVICES:**

- An academic advisor from the participating institution is required to meet with each student within the first two weeks of class. This may be done in a group setting.
- College transcripts can be requested by visiting the respective college or university website associated with the courses taken. Beaver Creek High does not have access to college transcripts.
- All BHS students (whether full or part-time) have free access to all BHS counseling services. This includes all academic, personal and post-secondary counseling services.

**TRANSFER OF CREDITS/TRANSCRIPTS:**

- Credits earned through College Credit Plus are transferable to many public and private institutions in Ohio and out of the state. If a student attends the same college after high school graduation, full credit is transferred.
- Honors Programs may not accept CCP credits.
- CCP credit is not guaranteed at out of state public colleges and private universities.
- Students who want to transfer to another university should send their CCP transcript to the university they plan to attend.
- Two websites are available to help students fully understand what courses will transfer: [www.transferology.com](http://www.transferology.com) or [www.ohiomeanssuccess.gov](http://www.ohiomeanssuccess.gov)

**CCP BOOKS:**

- A procedure for the purchasing/renting and returning of textbooks for CCP courses will be provided to participating students. All CCP books purchased by Beaver Creek City Schools are considered the property of the district.

**SAMPLE COLLEGE CREDIT PLUS PATHWAYS**

- Below are sample College Credit Plus pathways for 15 and 30 credit hours. Students are not limited to this university or these courses.

<b>COURSE</b>	<b>CRN</b>	<b>CREDIT</b>
French 1010	Beginning French	3
English 1100	Academic Reading and Writing	3
Math 1280	College Algebra	3
Chemistry 1010	Intro to Chemistry	3
Sociology 2000	Intro to Sociology	3
<b>Subtotal</b>		<b>15</b>
<b>Second Semester</b>		
French 1020	French II	3
English 2040	Great Books	3
Music 2140	Music in Western Culture	3
History 1010	Western Civilization to 1500	3
Physics 1050	Physics of How Things Work	3
<b>Total</b>		<b>30</b>

## COLLEGE CREDIT PLUS COURSES OFFERED AT BHS

### Sinclair CCP Courses

**\*\* ALL COURSES MUST MEET ACCUPLACER ELIGIBILITY REQUIREMENTS**

**\*Courses are subject to change\***

## **ENGLISH**

### **ENG 1101 – English Composition I – (3 college credit hours)**

In English Composition I student learn reflective, analytical and argumentative writing strategies, incorporating sources and personal experience. Students will negotiate between public and private rhetorical situations and purposes to achieve academic literacy. They will write multiple drafts using a recursive writing process as they work toward fluency in style and mechanics.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

### **ENG 1201 – English Composition II – (3 college credit hours)**

English Composition II, building on the skills in English Composition I, develops rhetorical literacy through research, critical reading and multigenre writing tasks. Through major and minor, cumulative and stand-alone assignments, students construct arguments and analyses, ethically incorporating academic sources while developing their own voices as writers and citizens.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

### **LIT 2212 – American Literature II – (3 college credit hours)**

A chronological survey of major writers of American poetry, drama and prose from the Civil War through the present.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

### **LIT 2202 – British Literature II – (3 college credit hours)**

A chronological survey of major writers of English poetry, drama and prose from 1785 to the present.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

## **SCIENCE**

### **BIO 1111 / 1117 – General Biology I & Lab – (4 college credit hours)**

This course is designed as the first in a series of two general education science courses. Covers basic chemistry and biochemistry; cellular and molecular biology. Three classroom, two lab hours per week. The lab for this course (BIO 1117) is the first in a series of two general education science courses. Covers laboratory exercises relevant to basic chemistry and biochemistry; cellular and molecular biology.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

Co-requisite courses: BIO 1111 & BIO 1117

### **BIO 1211 / 1217- General Biology II & Lab- (4 college credit hours)**

This course is designed as the second in a series of two general education science courses. Covers evolution, biodiversity and ecology. Three classroom, two lab hours per week. This second lab is in a series of two general education science courses. Covers laboratory exercises relevant to evolution, biodiversity, and ecology.

#### **Semester / 1 BHS Credit**

Placement by Sinclair Community College

Prerequisite: BIO 1111 & BIO 1117

Co-requisite courses: BIO 1211 & BIO 1217

### **BIO 1141 / 1147- Human Anatomy & Physiology & Lab- (4 college credit hours)**

The first course in a two-semester sequence studying the structure and function of the human body. Topics include introductory terminology, biochemistry, cells, the integumentary system, the skeletal system, the muscular system, the nervous system and the endocrine system. Three classroom, two lab hours per week. Lab for the first course in a two-semester sequence studying the structure and function of the human body.

#### **Year / 1 BHS Credit**

Placement by Sinclair Community College

Co-requisite Courses: BIO 1141 & BIO 1147

## **MATH**

### **MTH 1470 - College Algebra - (3 college credit hours)**

Polynomial, radical, rational, exponential and logarithmic functions and their graphs; roots of polynomial functions, rational and polynomial inequalities; systems of linear and nonlinear equations; matrices; and applications.

#### **Semester / 1 BHS Credit**

Placement by Sinclair Community College

### **MTH 1570 - Trigonometry - (3 college credit hours)**

Trigonometric functions of angles, solving right and oblique triangles, identities, trigonometric and inverse trigonometric equations, vectors, radian measure, graphs of trigonometric functions and inverse trigonometric functions, conic sections, sequences, and series.

#### **Semester / 1 BHS Credit**

Placement by Sinclair Community College

Prerequisite: MAT 1470 with a C or Better

## **SOCIAL STUDIES**

### **HIS 1102 - United States History II - (3 college credit hours)**

Development of the people of the United States in political, social, economic, and cultural areas from reconstruction to the present.

#### **Semester / 1 BHS Credit**

Placement by Sinclair Community College

**HIS 1111 – Western Civilization I – (3 college credit hours)**

Major trends in the development of Western culture, emphasizing political, economic, social and cultural achievements, from prehistory to the seventeenth century.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

**HIS 1112 – Western Civilization II – (3 college credit hours)**

Major trends in the development of Western culture, emphasizing political, economic, social and cultural achievements, from the seventeenth century to the present.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

**PLS 1120 – American Federal Government – (3 college credit hours)**

American political system at the national level, including process of government; democratic theory and development of the U.S. Constitution; citizen participation through voting; interest groups and political parties; structure, function and powers of legislative, executive, and judicial branches; issues of civil liberties and equal rights.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

**PSY 1100 – General Psychology – (3 college credit hours)**

University-parallel course covering history and systems of psychology, behavioral research methods, physiology of behavior, sensation, perception, learning, memory, consciousness, cognition, personality, lifespan development, gender, social psychology, motivation, emotion, stress, mental disorders and therapies.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

**ELECTIVES / FOREIGN LANGUAGE**

**COM 2211 – Effective Public Speaking – (3 college credit hours)**

Designed to improve speaking and listening skills through the study and application of public speaking structure, content, and style.

**Semester / 1 BHS Credit**

Placement by Sinclair Community College

**SPA 1101 – Elementary Spanish I – (4 college credit hours)**

Foundation for understanding, speaking, reading and writing Spanish. Work outside of class and/or in language laboratory is required.

**Year / 1 BHS Credit**

Placement by Sinclair Community College

**SPA 1102 – Elementary Spanish II – (4 college credit hours)**

Foundation for understanding, speaking, reading and writing Spanish. Work outside of class and/or in language laboratory is required.

**Year / 1 BHS Credit**

Placement by Sinclair Community College

Prerequisite: SPA 1101

**SPA 2201 – Intermediate Spanish I – (3 college credit hours)**

Reviews and extends basic principles through composition and conversation, stressing fluency. Work outside and/or in the language laboratory is required.

**Year / 1 BHS Credit**

Placement by Sinclair Community College

Prerequisite: SPA 1102

**SPA 2202 – Intermediate Spanish II – (3 college credit hours)**

Reviews and extends basic principles through composition and conversation, stressing fluency. Work outside and/or in the language laboratory is required.

**Year / 1 BHS Credit**

Placement by Sinclair Community College

Prerequisite: SPA 2201

## **SUMMER SCHOOL**

Summer school will consist of remedial work for students who have failed classes. Remedial or make-up work will usually be offered in the following areas:

- English
- Math
- Social Studies
- Science

### **Other Summer School offerings:**

- **Physical Education, not for remediation**

## **Ohio State Tests Remediation Course**

Students in Ohio must earn a minimum of 18 points on the Ohio State Tests (OST): ELA I, ELA II, Biology, American History, Algebra, Geometry and American Government. Students must earn a minimum of 4 points combined on the ELA I and ELA II tests, as well as earning a minimum score of 4 points on the Algebra and Geometry tests. Additionally, students must earn at least 6 points combined on their Biology, American History and American Government tests. These score requirements are in addition to the course credits required for high school graduation for the State of Ohio.

Beavercreek High School will offer a two-week remediation course to prepare students to retake any of the tests mentioned above. This class is also an option for students that move into the Beavercreek City School district from outside of Ohio. Our counselors will advise students that move in from out of state which OST they are required to take. These courses will target the skills and content tested on the OST and will not cover the entire curriculum of that course.

This course will start on July 8 and end on July 19. The class will be for 2 hours per day and students will retake the OST the week of July 22<sup>nd</sup>.

## **VALEDICTORIAN/SALUTATORIAN ELIGIBILITY**

- For a student to be eligible for Salutatorian or Valedictorian status at Beavercreek High School, the student must have enrolled at Beavercreek High School and been awarded grades and credits by Beavercreek High School during the entire 7<sup>th</sup> semester.
- The Valedictorian and Salutatorian selection will be made at the conclusion of the 7<sup>th</sup> semester. Selection will be based on grade point averages using the final grades for all courses receiving high school credit. The final grade point average will be rounded to the nearest tenth.
- Student taking courses under the provisions of the “College Credit Plus” program should be aware that courses taken at the university level also count in calculation of the grade point average and class rank.
- School policy regarding students moving into our district and calculating their grade point average shall be: only those advanced level and honors courses, which are weighted, and equivalent to those existing in Beavercreek’s curriculum will be used in calculating a student’s grade point average and determining the rank in class. Any other advanced level and honors courses appearing on the transcript that have no equivalent course in the Beavercreek curriculum will be calculated using the four point grading scale. The transcript will show all courses that were designated advanced courses by the previous school.

# NATIONAL HONOR SOCIETY

The National Honor Society promotes recognition for students who reflect outstanding accomplishments in the areas of Scholarship, Character, Leadership, and Service.

## ELIGIBILITY:

To be eligible for membership, the candidate must be a member of the JUNIOR or SENIOR class and must have attended at Beaver Creek High School/Greene County Career Center the equivalent of one semester. Even though a student was selected for membership at another school, it is important to note that a student must meet the requirements of the Beaver Creek High School chapter.

## SELECTION PROCESS:

Students' academic records will be reviewed at the start of the first semester to determine scholastic eligibility. A **3.6 GPA** is required. There will be no rounding.

Students who are eligible scholastically will be notified by mid-October. At that time, students will be given instructions for completing the mandatory **Student Activity Form**. It is very important for the student to carefully read and follow the instructions on the form. No consideration will be given to a student's form that is improperly completed.

The Student Activity Form must be submitted to the NHS advisor by the date stated on the form. Forms will not be accepted after the designated date.

The NHS advisor and the Faculty Council will submit a list of names of all those students who returned their Student Activity Form to all faculty members. The faculty will be asked to comment on the candidates' leadership in the classroom and on the candidates' observable character.

The Student Activity Form, the input acquired via the Faculty Information Sheet, along with other verifiable information (letters verifying community service), will be reviewed by the Faculty Council. The Faculty Council will, according to pre-determined criteria, award a numerical value to each of the four main categories.

**Scholarship:** A student who demonstrates outstanding scholarship will receive:

- (5) for a 4.0 to 4.6 GPA
- (4) for a 3.6 to 3.9 GPA

**Leadership:** A student who demonstrates outstanding leadership will:

- exhibit leadership in the classroom
- demonstrate reliability and dependability
- uphold principals of morality and ethics

**Character:** A student who demonstrates outstanding character is one who:

- is respectful, reliable, dependable, and honest.

**Service:** A student who demonstrates outstanding service is one who:

- volunteers dependable and well-organized assistance to his/her community, church and school.

- ❖ All school volunteer service must be done outside of the school day and cannot be the required or fundraising activity of any co-curricular activity or sports team.
- ❖ Volunteer hours should be accumulated each year from the beginning of freshman year to present. Students should begin compiling documentation early.
- ❖ Letters of verification of hours and type of service volunteered must be provided.
- ❖ In order to receive the maximum amount of points, service hours should be from a variety of types of service (i.e. church, Scouts, hospital, etc.).

## WHO IS CHOSEN?

The Faculty Council will award points from (1) to (5) for leadership, character, and service, and a (4) to (5) for scholarship. **An average of 4.0 is required for selection.** There will be no rounding.

# Ohio Academic Honors Diploma

High school students can gain state recognition for exceeding Ohio’s graduation requirements through an Academic Honors Diploma. High-level coursework, college and career readiness tests and real-world experiences challenge students.

Students must fulfill 7 of the 8 criteria.

Students must meet general graduation requirements to qualify for honors diplomas.

ACADEMIC HONORS DIPLOMA	
Math	4 units
Science	4 units, including 2 units of advanced science
Social Studies	4 units
World Languages	3 units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	1 unit
GPA	3.5 on a 4.0 scale (Unweighted)
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher

*Guidance*

*To be eligible, students must complete units, or credits, in specific subjects (see above chart). They can use Advanced Placement, International Baccalaureate, College Credit Plus and Credit Flexibility coursework to meet the unit requirements of an honors diploma. A single course can meet multiple criteria if it fits under multiple subject areas. Students also can design their own independent study courses. This requires that someone with proper licensure in the subject area must teach or co-teach the courses used for an honors diploma.*

**Math** – Students must take algebra I, geometry, algebra II (or equivalent), and one other higher level course OR a four-course sequence that contains equivalent or higher content.

**Science** – Advanced science refers to courses that are inquiry based with laboratory experience. They must align with the grades 11/12 standards (or above) or with an Advanced Placement science course or entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany or astronomy).

**Social Studies** – Students will get credit for World History, American History, Government and one additional social studies elective including AP or CCP courses in history. If the district counts financial literacy as a family consumer science or business education elective, it does not count.

**World Language** – Only credits from courses that are sequential and proficiency based (e.g., Spanish levels I, II, III or German I and II and French I and II) fulfill the honors diploma requirement. Sequential classical (e.g., Latin, Ancient Greek) and visual (e.g., American Sign Language) languages DO fulfill the honors diploma requirement. No units from language courses coded as “Foreign Language Exploratory” can count toward the honors diploma requirement. No units from culture-based courses can count toward the honors diploma requirements. If a student opts to complete this criterion by taking *two units each of two world languages studied*, a student must complete a total of four world language units. This means two sequential, proficiency-based units in two different languages.

**Fine Arts** – Dance, drama/theatre, music and visual art courses all count as fine arts courses. Courses must be high school credit.

**GPA** – GPAs must be calculated on an **unweighted 4.0 scale**.

**ACT and SAT score requirements** – Students must have scores of 27 or higher on the ACT or 1280 or higher on the 2016 SAT or their equivalents on previous or future versions of the tests. The score for SAT was updated due to the new SAT exam. For students who took the SAT before March 1, 2016, concordance tables can be found on the ODE website and further information can be found on the College Board’s website. The ACT writing and SAT essay sections are not included.

## Gifted Services for High School Students at Beavercreek City Schools

Gifted students have many opportunities to have their unique learning needs met at Beavercreek City Schools through advanced/honors, Advanced Placement, Dual Enrollment, and specialized elective courses. Below is a table that explains which classes provide gifted service. A student who is identified as gifted in Superior Cognitive Abilities or Creative Thinking may be challenged through any of the courses listed.

Gifted Identification Area	Advanced/Honors Courses	AP Courses	Specialized Elective Courses	Dual Enrollment (on-campus) CCP Courses*
Math	Scholarship Geometry Scholarship Algebra II Honors Algebra II Scholarship Precalculus Honors Precalculus Scholarship Calculus	AP Calculus AB AP Calculus BC AP Statistics	Engineering & Development Capstone - PLTW	MTH 1470 MYH 1570
Reading/Writing	Scholarship English 10 Honors English 10 Scholarship English 11 Scholarship English 12 Scholarship German III Honors German IV Scholarship Spanish III Honors Spanish IV Scholarship French III Honors French IV	AP Language & Composition AP English Literature & Composition AP French IV	Scholarship Composition	ENG 1101 ENG 1201 LIT 2212 LIT 2202 COM 2211 SPA 1101 SPA 1102 SPA 2201 SPA 2202
Science	Scholarship Biology Scholarship Chemistry Honors Chemistry Scholarship Physics Honors Physics	AP Biology AP Chemistry AP Physics	Human Design & Development Capstone - PLTW	BIO 1111/1117 BIO 1211/1217 BIO 1141/1147
Social Studies		AP US History AP Government AP World History AP European History AP Psychology	Design Thinking 301 Design Thinking 401	HIS 1102 HIS 1111 HIS -1112 PLS 1120 PSY 1100
Visual/Performing Arts		AP Studio Art	Art II Photography II Art Portfolio Advanced Acting Beavercreek Chorale Women's Choir Varsity Band Concert Band Symphonic Band Wind Symphony	

Gifted students in grades 7-12 who are interested in coursework that is not provided at the high school can also take courses through College Credit Plus. These courses, if they match a student's area of identification, are also considered gifted service.

\*On-campus CCP course offerings are dependent on enrollment and staffing criteria.

## CLASS PLANNING CHART

	<b>Freshman Grade 9</b>	<b>Sophomore Grade 10</b>	<b>Junior Grade 11</b>	<b>Senior Grade 12</b>
<b>English Language Arts 4 credits required</b>				
<b>Math 4 credits required</b>				
<b>Science 3 credits required</b>				
<b>Social Studies 3 credits required</b>				
<b>Health ½ credit required</b>  <b>Phys. Ed. ½ credit required</b>  <b>And/or elective</b>				
<b>Fine Arts 1 credit required</b>				
<b>Electives 5 credits required: Art, Business, Foreign World Language, Family &amp; Consumer Science, Industrial Tech, Core Area electives</b>				

# ART

Students are required to earn one credit in Fine Arts. All of BHS art courses count as Fine Arts credit. Students planning to study art during and after high school should take Art 1 2D and Art 1 3D, Art II, Portfolio, Advanced Placement Art, and as many other art courses as possible.

LEVEL I COURSES	GRADE	CREDIT	NO PREREQUISITES
Art 1-2D (formally Art I)	9-10-11-12	½	
Art 1- 3D (formally Art I)	9-10-11-12	½	
Computer Arts I (formally Media Arts)	10-11-12	½	
Drawing	9-10-11-12	½	
Arts, Crafts, and Appreciation	9-10-11-12	½	

  

LEVEL II COURSES	GRADE	CREDIT	PREREQUISITE
Art II	10-11-12	1	(prerequisite Art 1 2D & any other art course OR Art I full year)
Ceramics & Sculpture	10-11-12	½	(prerequisite Art 1 3D or Art I full year)
Computer Arts II (formerly Graphic Design I)	10-11-12	½	(prerequisite Computer Arts I, formally Media Arts)
Painting	10-11-12	½	(prerequisite Art 1 2D or Art 1 full year)
Photography I	10-11-12	½	(prerequisite Art 1 2D or Art 1 full year)
Printmaking	10-11-12	½	(prerequisite Art 1 2D or 3D or Art 1 full yr.)

  

LEVEL III COURSES	GRADE	CREDIT	PREREQUISITE
Photography II	10-11-12	½	(prerequisite Photography I)
Art Portfolio	11-12	1	Art II
Advanced Placement 2D Studio Art	11-12	1 (A.P.)	(prerequisite Art II OR Photography II)

## Level I Course Descriptions

### Art 1 2D

This course is an introduction to the fundamentals of 2D art where students will learn to apply the elements and principles of design. The emphasis will be on drawing, painting, design and art history. Mediums explored include but are not limited to: colored pencils, pen and ink, watercolors, acrylic, charcoal/pastel, and scratchboard.

This course is a prerequisite for many Level II courses.

**Semester / ½ credit**

**Fee - \$25**

**Grades 9-10-11-12**

### Art 1 3D

This course is an introduction to the fundamentals of primarily 3D art where students will learn to apply the elements and principles of design. The emphasis will be on sculpture, ceramics, printmaking, design and art history. Mediums explored include but are not limited to: clay, paper mache, plaster, printmaking, found objects, copper tooling, and other sculptural media.

**Semester / ½ credit**

**Fee - \$25**

**Grades 9-10-11-12**

### **Computer Arts I (formerly Media Arts)**

This course introduces students to beginning computer art tools and techniques using Adobe Creative Cloud Suite programs on industry standard Mac computers. Students will create graphic designs and simple animations, applying the Elements and the Principles of Art. This is a studio art class that requires in-class participation and emphasizes both technical skill and creative art making. This course is the prerequisite for Computer arts II (formerly Computer Graphics I).

**Semester / ½ credit**

**Fee - \$25**

**Grades 10-11-12**

### **Drawing**

This course is for students who like to draw or would like to learn how. A variety of media will be used, may include but not limited to: pencil, colored pencil, pen and ink, charcoal, scratchboard, and pastels. Subject matter will include still-life, figures, portraits, landscape, and more.

**Semester / ½ credit**

**Fee - \$25**

**Grades 9-10-11-12**

### **Arts, Crafts, and Appreciation**

This course combines art history and the creation of related crafts. Cultures and art movements explored may include but not limited to: Egyptian, Greek, Aboriginal, Oaxacan, African, Asian and Pop Art. Mediums explored may include but not limited to: graphite, colored pencils, pastels, watercolors, acrylics, and clay. The course content is introduced through digital images, videos, lectures, and supporting art projects.

**Semester / ½ credit**

**Fee - \$25**

**Grades 9-10-11-12**

## **Level II Course Descriptions**

### **Art II**

This course reinforces the fundamentals of art. Students will briefly review Art I concepts and skills before learning new content. The focus for this course will be learning the traditional means for using the different materials. Students will be encouraged to become more expressive and creative in their work. Career opportunities in Art will be explored.

**Year / 1 credit**

**Fee - \$50**

**Grades 10-11-12**

**Prerequisite: "C" average in Full year Art I or both Art 1 2D and any other art course**

### **Ceramics and Sculpture I**

This course combines the areas of ceramics and sculpture in the creation of 3-dimensional works of art from clay and various media. Students will learn to use hand-building, modeling techniques, and the potter's wheel.

**Semester / ½ credit**

**Fee - \$25**

**Grades 10-11-12**

**Prerequisite: Art 1 3D or Art 1 full year**

### **Computer Arts II (formally Graphic Design I)**

This course involves the creation of art using the Adobe Creative Cloud Suite. This industry standard software will be taught in labs with graphic level Mac workstations. Students will continue to apply the Elements and Principles of Art to their work. This course focuses on real world applications and requires more independent and creative work from the student. Students will create a digital portfolio.

**Semester / ½ credit**

**Fee - \$25**

**Grades 10-11-12**

**Prerequisite: Computer Arts I**

### **Painting**

This course is for students who would like to improve their painting skills. The curriculum includes both basic and advanced painting skills. A variety of media is used, including watercolors, acrylics and oils. Subject matter includes still-life, figures, portraits, landscapes and more. Students are encouraged to create larger works than typically created in Art I and will have the opportunity to paint murals for BHS.

**Semester / ½ credit**

**Fee - \$25**

**Grades 10-11-12**

**Prerequisite: Art1 2D or Art 1 full year**

## Level III Course Descriptions

### Photography I

This course is an introduction to 35mm film cameras and digital photography with DSLR cameras. Emphasis is on camera mechanics, film developing, darkroom printing, digital processing with Adobe programs, and design. Students will learn about the history of photography and alternative photo processes. It is recommended that students have a personal SD card and flash drive.

**Semester / ½ credit**

**Fee - \$30**

**Grades 10-11-12**

**Prerequisite: Art1 2D or Art 1 full year**

### Printmaking

This course involves the creation of a variety of printmaking techniques such as, but not limited to, monotypes, mono-prints, on color reduction prints, three color reduction prints, etching and calligraphy.

**Semester / ½ credit**

**Fee - \$25**

**Grades 10-11-12**

**Prerequisite: Art 1 2D or Art 1 3D or Art 1 full year**

### Photography II

This course continues with more advanced photo and printing techniques learned in Photography I. Students will use 35mm film cameras and DSLR cameras. Emphasis is on camera mechanics, film developing, darkroom printing, digital processing with Adobe programs and design. Students will study the work of famous photographers, careers in photography, and alternative photo processes. It is recommended that students have a personal SD card and flash drive.

**Semester / ½ credit**

**Fee - \$30**

**Grades 10-11-12**

**Prerequisite: Photography I**

### Art Portfolio

This course is extremely important for students who plan to pursue art after high school. The course is designed to help students create and compile a portfolio with a minimum of 8 pieces of quality artwork that can be presented for college admittance, scholarships, art competitions or employment. Art career information will be shared with students. College representatives from various art schools will give presentations during class. It is recommended that every student have a flash drive used to manage a personal digital portfolio during the year.

**Year / 1 credit**

**Fee - \$50**

**Grades 11-12**

**Prerequisite: Art II**

### A.P. (Advanced Placement) 2D Studio Art

This course focuses on preparing an individual, 15 piece portfolio for submission to the College Board the first week in May. The score awarded determines college credit. AP credit will be given on BHS transcripts. The demands of this course are similar to a first year college level class with an emphasis on quality craftsmanship, critique, and independent work. ~~Most~~ All work must be 2 dimensional such as drawing, collage, photography, fashion design, digital imaging, graphic design, printmaking, weaving, illustration, etc. Students must demonstrate understanding of the Principles and Elements of Art. Artwork will be new and created as a series with consistent theme or concentration. All work must be original, no plagiarism is accepted. There is an AP Exam fee.

**Year / 1 credit**

**Fee - \$50, plus AP Exam Fee Grade 11-12**

**Prerequisites: Art II OR Photography II**

A portfolio of at least six 2D artworks along with an artist statement submitted to the Art Department before registration. Art Department recommendation will be deciding factor for acceptance into course.

# BUSINESS

<u>COURSES</u>	<u>GRADE</u>	<u>CREDIT</u>
Introductory Personal Keyboarding	9-10-11-12	½
Everything Google and Office	9-10-11-12	½
Accounting	10-11-12	1
Business 101	9-10-11-12	½
Graphic Design for the Real World	10-11-12	½
Entrepreneurship	9-10-11-12	½
Personal Finance	10-11-12	½
Business and Personal Law	10-11-12	½
International Business and Management	11-12	½
Sports and Entertainment Marketing	9-10-11-12	½
Yearbook	10-11-12	1

## Course Descriptions

### Introductory Personal Keyboarding

Designed for individuals who have little or no training in typing or keyboarding, this course introduces students to techniques that will allow them to progress past pecking at the keys. Students will work to develop proper keyboarding technique and skills in both speed and accuracy. Basic formatting skills for business and personal documents will be introduced. Introductory Personal Keyboarding utilizes MicroType and Microsoft Word.

**Semester / ½ credit**

**Fee - \$20**

**Grades 9-10-11-12**

### Everything Google and Office

This course is designed for students who are interested in studying productivity and presentation software using Google Apps and Microsoft Office (Word, Excel, PowerPoint). Students will progress from beginning to intermediate features of each application. Word processing features includes creating business documents, brochures, flyers, etc. Spreadsheet features will have students create documents that will include charts, graphs, and basic mathematical functions. PowerPoint will be introduced as presentation software where students will develop skills in animation, transitions, synchronizing music with their slideshows, and creating templates. Other topics will be included as time permits. Simulations and projects will be utilized as teaching and learning tools. Basic keyboarding knowledge is essential.

**Semester / ½ credit**

**Fee - \$20**

**Grades 9-10-11-12**

### Accounting

Accounting establishes a foundation for understanding business and provides initial knowledge needed for an accounting career. This class introduces the principles and process involved in double-entry accounting systems. It covers the entire accounting cycle including the use of journals, ledgers, worksheets, financial statements and specialized accounting functions such as banking and payroll. This class is recommended for anyone interested in pursuing a career in business and/or accounting. Learning can also be transferred to apply to personal situations in everyday life, including topics such as checking accounts, payroll, expenses, income, profit and net loss. Microsoft Excel and Google Sheets will be utilized for projects and stimulations.

**Year / 1 credit**

**Fee - \$35**

**Grades 10-11-12**

### Business 101

Business 101 develops the survival skills necessary to succeed in the business world. This course will serve as a background for other business courses taken in high school and college. Topics covered include management, business law, ethics, marketing, entrepreneurship, career opportunities, personal finance and economics. Taught in a computer lab setting, the course gives students a broad exposure to business operations through the use of Microsoft Office applications and is a solid background for career exploration in business.

**Semester / ½ credit**

**Fee - \$20**

**Grades 9-10-11-12**

### **Graphic Design for the Real World**

Look around you and take a graphic design journey...for it exists everywhere. Web pages and memes, menus and movie posters, fast food logos and t-shirts, business signs and magazine covers. It is just the beginning of a look at the use of graphic design in both personal and professional life. Good design grabs your attention and does not let go -- and that is what this class will do! Learn to use the exciting software InDesign to put your creative talents to work designing all sorts of eye-catching projects. Graphic design opportunities exist everywhere -- don't miss out on learning how you can put them to use!

**Semester / ½ credit**

**Fee - \$20**

**Grades 10-11-12**

### **Entrepreneurship**

This course is designed to teach students key information necessary to start and maintain a business. Students will study the characteristics of successful entrepreneurs, self-employment, and basic economic concepts related to small businesses, such as competition and production. This course will also walk students through the steps of setting up a business, including developing a business plan, a webpage, a mission and a vision, attracting investors, and marketing a company.

**Semester / ½ credit**

**Fee - No**

**Grades 9-10-11-12**

### **Personal Finance**

This course will start students on a path toward being in control of their financial futures. Students will learn how to budget, save, spend wisely, avoid debt, and give. A thorough understanding of financial concepts will enable students to leave this course with applicable and useful skills for life. This course studies the personal financial needs of most individuals and emphasizes the basic of college and career planning, budgeting, saving, checking, investments, credit, the wise use of insurance, paying and preparing income tax returns and more. Students taking this course will learn to better prepare for their financial futures.

**Semester / ½ credit**

**Fee - No**

**Grades 10-11-12**

### **Business and Personal Law**

Through the study of authentic current events situations and past case law, this course will study business and personal law as it applies to all individuals, not just those interested in a legal career. From the foundations of law through the modern-day problems of identity theft, issues covered are almost endless. Topics include business ethics, criminal and civil law, the court system, contract laws, consumer protection, property and business-ownership rights, employment law, credit and debt issues, and more. Don't miss out on the opportunity to prepare your way for a successful personal and business life.

**Semester / ½ credit**

**Fee - No**

**Grades 10-11-12**

### **International Business and Management**

This course introduces students to business, sales, and supervision practices. Students will also be introduced to the international business environment, trade theories, the basics of international monetary and political systems, and the effects of legal, political, and cultural forces on the global economy.

**Semester - ½ credit**

**Fee- No**

**Grades 11-12**

### **Sports and Entertainment Marketing**

If you are interested in the exciting areas of sports and entertainment, this course is the place to learn how marketing strategies are formulated, implemented, and evaluated in that context. The fascinating world of sports and entertainment offers a new perspective to the traditional world of marketing. This course will explore (but not be limited to) professional, college and amateur sports, public image and endorsements, entertainment on stage or screen, promotional planning and advertising, product development, and legal issues. Students will develop critical thinking, decision making, and communication skills through individual and group project work while exploring the world of sports and entertainment.

**Semester / ½ credit**

**Fee - No**

**Grades 9-10-11-12**

## **Yearbook**

The high school yearbook, Beaver Tales, is an intensive project completed by a selected staff of 14-18 students. Responsible for all creative aspects of the yearbook, Beaver Tales staff members design, write, edit, photograph, and distribute the book. Students with an interest in computer design, photography, and writing are encouraged to apply. Application packets are made available prior to registration typically in late January. Students must go through the application, interview, and recommendation process to become a part of the staff. It is recommended that Beaver Tales staff members have their own digital camera, 10 MP minimum.

**Year / 1 credit**

**Fee - No**

**Grades 10-11-12**

**Prerequisite: "B" average in English, teacher recommendations, application, and selection by instructor.**

# ENGLISH

<u>COURSES</u>	<u>GRADE</u>	<u>CREDIT</u>
English 10	10	1
Scholarship English 10	10	1
Honors English 10	10	1
English 11	11	1
Scholarship English 11	11	1
English 12	12	1
Scholarship English 12	12	1
AP Language and Composition	11-12	1
AP English Literature and Composition	11-12	1
Scholarship Composition	10-11-12	½
ACT/SAT Prep	10-11-12	½
Acting	9-10-11-12	½
Advanced Acting	9-10-11-12	½
Creative Writing	9-10-11-12	½
Journalism I	9-10-11-12	½
Journalism II	10-11-12	½
Public Communication in Media I	10-11-12	½
Advance Public Communication in Media	10-11-12	½
Film as Literature	10-11-12	½

## English 10

In this course, students will explore and analyze a variety of themes using multiple genres: short stories, myths and legends, poetry, nonfiction, drama, and novels. Fundamental reading and writing skills will be developed in composition. Research techniques and vocabulary study will be included. An integrated approach involving reading, writing, listening, viewing, research, and oral communications will be used throughout the units of study. Evaluation will be based on participation in-class discussions and group activities, objective and essay tests, quizzes, writing assignments, and oral presentations.

**Year / 1 credit**

**Fee - No**

**Grade 10**

## Scholarship English 10

In this Course, students will explore and analyze a variety of themes using multiple genres: short stories, myths and legends, poetry, nonfiction, drama, and novels. Reading and writing skills will be emphasized with single and multi-paragraph development in composition. A research project and vocabulary study will also be included. An integrated approach involving reading, writing, listening, viewing, research, and communication will be used throughout the units of study. Evaluation will be based on participation in class discussion and group activities, objective and essay tests, quizzes, writing assignments, and oral presentations.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1 credit**

**Fee - No**

**Grade 10**

## Honors English 10

In this course, students will complete an in-depth study of literature through a variety of literary themes and genres: short stories, myths and legends, poetry, nonfiction, drama, and novels. All anthology will be used along with supplemental materials and additional outside readings assigned by the teacher. Advanced reading and writing skills will be emphasized with a concentration on multi-paragraph compositions and a fully developed research project. Extensive vocabulary study will also be included. An integrated approach involving reading, writing, listening/viewing, research, and oral communication will be used throughout the units of study. Evaluation will be based on participation in-class discussions and group activities, objective and essay tests, quizzes, writing assignments, and oral presentations.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - No**

**Grade 10**

### **English 11**

In this course, students will continue to explore and analyze a variety of themes using multiple genres from primarily American literature. Fundamental reading and writing skills will continue to be developed in composition. Researching techniques and vocabulary study will be included. An integrated approach involving reading, writing, listening, viewing, research, and oral communications will be used throughout the units of study. Evaluation will be based on participation in-class discussions and group activities, objective and essay tests, quizzes, writing assignments, and oral presentations.

**Year / 1 credit**

**Fee – No**

**Grade 11**

### **Scholarship English 11**

In this course, students will explore and analyze a variety of themes using multiple genres from primarily American literature. Reading and writing skills will continue to be emphasize with multi-paragraph development in composition. A research project and vocabulary study will also be included. An integrated approach involving reading, writing, listening, viewing, research, and oral communications will be used throughout the units of study. Evaluation will be based on participation in-class discussion and group activities, objective and essay tests, quizzes, writing assignments, and oral presentations.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1 credit**

**Fee – No**

**Grade 11**

### **English12**

In this course, students will continue to explore and analyze a variety of themes using multiple genres: short stories, myths and legends, poetry, nonfiction, drama, and novels in world literature. Fundamental reading and writing skills will continue to be developed in composition with college and career readiness as the focus. Research techniques and vocabulary study will be included. An integrated approach involving reading, writing, listening, viewing, research, and oral communications will be used throughout the units of study. Evaluation will be based on participation in-class discussions and group activities, objective and essay tests, quizzes, writing assignments, and oral presentations.

**Year / 1 credit**

**Fee – No**

**Grade 12**

### **Scholarship English 12**

In this course, students will continue to explore and analyze a variety of themes using multiple genres: short stories, myths and legends, poetry, nonfiction, drama, and novels in world literature. Reading and writing skills will continue to be emphasized with multi-paragraph development in composition with college and career readiness as the focus. A research project and vocabulary study will be included. An integrated approach involving reading, writing, listening, viewing, research, and oral communications will be used throughout the units of study. Evaluation will be based on participation in-class discussion and group activities, objective and essay tests, quizzes, writing assignments, and oral presentations.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1 credit**

**Fee – No**

**Grade 12**

## **ADVANCED PLACEMENT**

### **Junior and Senior Advance Placement Options**

**Students can take either AP course in the 11<sup>th</sup> or 12<sup>th</sup> grade. Students who intend to take both classes need to begin with AP Language in 11<sup>th</sup> grade and continue with AP Literature in 12<sup>th</sup> grade.**

### **AP Language and Composition**

This course will prepare students for the Advanced Placement English Language and Composition Exam. A summer reading/writing assignment will be given to each student who enrolls in AP English and must be turned

### **(AP Language and Composition cont.)**

in on the first day of school. This course will strengthen the effectiveness of your writing through close reading and frequent practice at applying rhetorical strategies, analyzing information from source texts, and writing arguments. You will become a critical reader of predominantly nonfiction works, and time periods. Along with the course requirements, the expectation is that all students will self-study and take the AP Exam. This course is an intensive study of rhetoric and writing at the college level.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee – No**

**Grade 11-12**

### **AP English Literature and Composition**

This course will prepare students for the Advanced Placement English Literature and Composition Exam. A summer reading/writing assignment will be given to each student who enrolls in AP English. Students will be expected to read perceptively, to participate actively in class discussions, and to write analytically. Along with the course requirements, the expectation is that all students will self-study and take the AP Exam. This course is an intensive study of literature and writing at the college level.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee – No**

**Grades 11-12**

## **ENGLISH ELECTIVE COURSES**

**English elective courses allow students to improve skills in reading, writing, public speaking and other ELA-related areas. Unless otherwise noted, all elective courses are one semester in length and count as 1/2 elective credit.**

### **Scholarship Composition**

In this course, students write essays appropriate to particular audiences. In their essays, students develop an expository thesis and argument, as well as two or more sub-points in support of that thesis, and present different forms of evidence from personal experience, research and reading. Students write essays over the semester to master a variety of rhetorical modes such as narrative-descriptive, comparison-contrast, cause-effect, and analysis. In all of their essays, students learn to write appropriate introductions and write appropriate conclusions and apply different organizational strategies. Students will use transitional devices to relate paragraphs and revise their essays to eliminate irrelevant and redundant development. Students will develop a range of sentence forms and learn to vary their sentence structures and levels of diction for different occasions and audiences. Students will master mechanics, usage, and MLA format.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Semester / ½ elective credit**

**Fee – No**

**Grades 10-11-12**

### **ACT/SAT Prep**

This course is recommended for college-bound students planning to take the SAT and/or ACT. Taking this course will prepare students for all of the question types found on the SAT and ACT reading and language sections. We will analyze each of the test question areas and give special consideration to verbal refreshers and techniques aimed at relieving test-taking anxiety. Topics include sentence completions and reading comprehension for the reading section, grammar, and essay writing for the writing section. Through review and practice, students will be familiarized with the directions for each section, the style of question, and the best approaches for finding the answers. For the Writing sections, subdivided into multiple-choice sections and a short, persuasive essay, we will study the directions, style, and approach to the questions, as well as work on composing the essay.

**Semester / ½ elective credit**

**Fee – No**

**Grades 10-11-12**

### **Acting**

This course is open to any student interested in learning and developing theatrical performances skills. Physical and mental preparation, pantomime, vocal techniques, improvisational theatrical movement, and character

**(Acting cont.)**

Interpretation will be studied and practiced. Students will select, cut, memorize, block, rehearse, and perform both solo and duet pieces. The historical foundations of theatre will also be studied.

**This course can be used as a fine arts credit.**

**Semester / ½ elective credit**

**Fee - No**

**Grades 9-10-11-12**

**Advanced Acting**

This course is designed for those students who have a strong interest in theatre. Many of the skills studied in Acting I will be further explored as students continue to perform solo and duet pieces. Theatre history, technical theatre, and playwriting will also be studied.

**This course can be used as fine arts credit.**

**Semester / ½ elective credit**

**Fee - No**

**Grades 9-10-11-12**

**Prerequisite: Acting**

**Creative Writing**

A multi-genre introduction to the craft of creative writing, this course will explore various topics and media including (but not limited to) comedy, nonfiction, graphic novels, mystery, horror, science fiction, poetry, and screenplays. Students will take notes, read examples in class, and provide thoughtful analysis of their own writing as well as their peers. No writing experience is needed and all levels of writers are welcome.

**Semester / ½ elective credit**

**Fee - No**

**Grades 9-10-11-12**

**Journalism I**

Explore all areas of journalism: print, television, radio, public relations, and internet. This course will feature sports writing, feature writing, news writing, and online journalism. Students enrolled in this course will have the opportunity to submit work for possible publication in the school newspaper, *The Beacon*, and for publication on the school district website and social media platforms.

- Students must complete an application before scheduling this course.
- The course must be taken either before or at the same time as Journalism II.

Applications are available on Mrs. Russ's school website:

**Semester / ½ elective credit**

**Fee - No**

**Grades 9-10-11-12**

**Journalism II (formerly Newspaper Production)**

Students will apply the skills they learned in Journalism I to the production of the school newspaper, *The Beacon*, and to the production of work for possible publication on the school district website and social media platforms. Students must apply to become a member of the newspaper staff and must have completed Journalism I the year before or during the same year as they take Journalism II. Applications are available on Mrs. Russ's school website.

**Year / 1 elective credit**

**Fee - No**

**Grades 10-11-12**

**Public Communication in Media I**

This course is a semester-long class that introduces students to the study of public speaking, digital media, mass media, and popular culture through a hands-on approach to media interactions and video production. Specific areas of study include public service announcements, such as live streaming school announcements, television advertising, short films, and broadcast news as well as learning the fundamental technical aspects of the digital video camera, camera shots and composition, media literacy, aesthetic elements and techniques. Course includes writing and speaking for radio, television, and live stream internet and techniques of camera use and editing as well as sampling the visual artistry of the media.

**Semester / ½ elective credit**

**Fee - No**

**Grades 10-11-12**

**Advance Public Communication in Media**

A continuation of the in Public Communications and Production I curriculum with specific focus on directing, media presentation, and project management. Application required.

**Prerequisite: Speech or Public Communications and Production I**

**Semester / ½ elective credit**

**Fee – No**

**Grades 10-11-12**

**Film as Literature**

The purpose of this class would be to have students critically study film as we would study literature while we explore film techniques and editing. A major component of this class would be analysis in both written argument and discussion, as well as comparison of literary adaptations to films. This course would be geared towards the student who is interested in film not for mere enjoyment but to hone critical thinking and analytical skills that would transfer to the English class and literary analysis.

**Semester / ½ elective credit**

**Fee – No**

**Grades 10-11-12**



**LEVEL IV – Honors French, German, Spanish**

In the fourth year, students do advanced work based on the foundation obtained during years I – III. Literature and culture content are taught in the target language as students enhance their proficiency in listening, speaking, reading, and writing.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee – cost of materials**

**Grades 10-11-12**

**Prerequisite: Level III with teacher recommendation**

**Advanced Placement (AP) French, German & Spanish V**

The course is based on the criteria outlined in the Advanced Placement Course Description for French, German and Spanish language. Through conversation, composition, and study of modern literature and culture, students “develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than to the mastery of any specific subject matter.” The emphasis is on active communication. A major objective of the course is to prepare students to take the AP Exam given in May.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee – cost of materials**

**Grade 12**

**Prerequisite: Honors Level IV with teacher recommendation**

**American Sign Language I**

This course consists of basic vocabulary, expressive and receptive skills, appropriate grammar and a study of Deaf Culture. Students will be able to distinguish the differences between American Sign Language and English, demonstrate conversational skills, and recognize the Deaf Community as having its own distinct culture with its own history and language.

**Year / 1 credit**

**Fee – cost of materials**

**Grades 10-11-12**

**American Sign Language II**

This course is a continuation of Sign Language I. Students will continue to learn conversational vocabulary, increase expressive and receptive skills, and improve finger spelling skills. There will be more focus on sentence structure, grammar, and classifiers. Students will learn the basics of role shifting and sequencing, as well as other temporal aspects. There will also be a more in-depth study of American Deaf Culture.

**Year / 1 credit**

**Fee – cost of materials**

**Grade 11-12**

**Prerequisite: American Sign Language I with teacher recommendation**

# INDUSTRIAL TECHNOLOGY

These courses are recommended for students interested in the Engineering field.

<b><u>COURSES</u></b>	<b>GRADE</b>	<b>CREDIT</b>
Mechanical Drawing	10-11-12	1
Computer-Aided Drafting (CAD)	11-12	1
Electricity	10-11-12	1
Woodworking I	10-11-12	½

## **Mechanical Drawing**

This drafting course will introduce students to different areas in drafting and design. Areas explored include mechanical, engineering, and architectural drawings. Course content will stress graphic visualization and will develop the student's technical imagination.

**Students will need to purchase their own drafting equipment in addition to the class fee.**

**Year / 1 credit                                      Fee - \$30                                      Grades 10-11-12**

## **Computer-Aided Drafting (CAD)**

This course is intended to introduce students to the fundamentals and applications of drafting and design with the aid of a computer. With the CAD software, the student will complete various degrees of drafting and design problems. Basic knowledge of traditional drafting is needed. Seniors will be given first preference.

**Year / 1 credit                                      Fee - \$30                                      Grades 11-12**

**Prerequisite: Mechanical Drawing**

## **Electricity**

This course will introduce the student to basic components, simple circuits, the behavior and characteristics of electron flow in radios, motors, appliances, and in general use of everyday living. This procedure is accomplished by lecture, laboratory, and use of simple motors.

**Year / 1 credit                                      Fee - 35                                      Grades 10-11-12**

## **Woodworking I**

This course, through lecture and laboratory experiences, will provide the student an opportunity to develop skills in design, planning, and layout. Students will develop skills in the use of hand tools and equipment, using a student-selected product as a vehicle for learning. Students must pass a safety test and are required to complete a project.

**Semester / ½ credit                                      Fee - \$35                                      Grades 10-11-12**

# MATHEMATICS

<b><u>COURSES</u></b>	<b>GRADE</b>	<b>CREDIT</b>
Algebra 1B	9-10	1
Geometry	9-10-11	1
Scholarship Geometry	9-10	1
Algebra II	10-11-12	1
Scholarship Algebra II	10-11	1
Honors Algebra II	10	1
Precalculus	11-12	1
Scholarship Precalculus	11-12	1
Honors Precalculus	11	1
Scholarship Calculus	12	1
AP Calculus AB	12	1
AP Calculus BC	12	1
AP Statistics	11-12	1
Introductory Statistics	11-12	½
Discrete Math	11-12	½
Transition to College Algebra	11-12	½
Math Applications	11-12	½

## Calculator Information:

Some math courses require graphing calculators, as listed in the course description. We recommend a **TI-84** or a **TI-Nspire** (non-CAS version). The TI84 Plus CE or the TI-Nspire CX are the newest versions, but older versions will be fine. If students have a different graphing calculator, it may work, but their teacher may not necessarily provide instruction in how to use it. A CAS (Computer Algebra System) should not be purchased, as it will not typically be allowed on tests.

While there are various graphing utilities available for devices, these will not be permitted for use on tests; a handheld graphing calculator is still required. If students have any questions or difficulty obtaining a graphing calculator, they should contact their math teacher or the math department chair.

## **Algebra 1B**

This course includes a continuation of Algebra topics and will introduce the ideas of systems of linear equations, quadratic and exponential functions.

**Year / 1 credit**

**Grades 9-10**

**Prerequisite: Algebra 1A**

## **Algebra I**

This course provides mastery of algebra skills including operations with real numbers simplifying algebraic expressions, solving linear equations and inequalities, solving quadratic equations, solving systems of linear exponents, simplifying radicals, operating with polynomials, and factoring polynomials. Students need counselor placement only.

**Year / 1 credit**

**Grade 9**

## **Geometry**

Geometry is the branch of mathematics concerned with the measurements and relations of planar figures (segments, lines, angles, polygons, circles) and solids (rectangular solids, pyramids, cylinders, cones, spheres). The content also includes the development of deductive reasoning and an introduction to basic trigonometry. A scientific calculator is recommended.

**Year / 1 credit**

**Grades 9-10-11**

**Prerequisite: Algebra I or Algebra 1B**

### **Scholarship Geometry**

Scholarship Geometry is offered to any student who desires to take a course of broader scope than the traditional Geometry offering. The first semester will emphasize writing proofs while the second semester will emphasize computational processes. This course will consist of the study of elements of geometry, angles, perpendicular lines, parallel lines and planes, congruent triangles, similar polygons, right triangles, circles, area, volume, and coordinate geometry. A scientific calculator is required for this course. Students should expect at least ½ hour of homework each night.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1 credit**

**Grades 9-10**

**Prerequisite: "A" in Algebra I**

### **Algebra II**

This course is a continuation of the study of algebra. The content includes the concepts from Algebra I, polynomials, negative and rational exponents, complex numbers, relations and functions, and an introduction to trigonometry. A scientific calculator is recommended for this course.

**Year / 1 credit**

**Grades 10-11-12**

**Prerequisite: Geometry or Informal Geometry**

### **Scholarship Algebra II**

This course consists of sequences of real numbers, linear functions and relations, systems of linear open sentences, polynomials and rational algebraic expressions, radicals, irrationals, quadratic equations, polynomial functions and complex numbers, exponents and numerical computation, quadratic relations and systems, logarithms, and trigonometric and circular functions. A specific graphing calculator is required. Please see the math department web site or ask a math teacher for details.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1 credit**

**Grades 10-11**

**Prerequisite: Scholarship Geometry**

### **Honors Algebra II**

This course consists of sequences of real numbers, linear functions and relations, systems of linear open sentences, polynomials and rational algebraic expressions, radicals, irrationals, quadratic equations, polynomial functions and complex numbers, exponents and numerical computation, quadratic relations and systems, logarithms, conics, trigonometric and circular functions, and trigonometric identities and formulas. A specific graphing calculator is required. Please see the math department web site or ask a math teacher for details.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Grade 10**

**Prerequisite: Honors Geometry**

### **Precalculus**

The course is a continuation of the study of algebra, and it is designed to prepare the college-bound student for college level mathematics. The content includes skills from Algebra II, logarithms, sequences, series, binomial expansion, trigonometry, and an introduction to calculus. A specific graphing calculator is required. Please see the math department web site or ask a math teacher for details.

**Year / 1 credit**

**Grades 11-12**

**Prerequisite: "B" or better in Algebra II**

### **Scholarship Precalculus**

The course is a continuation of the study of algebra, and it is designed to prepare the college-bound student for college level mathematics. The content includes skills from Scholarship Algebra II, conics, polar graphing, vectors,

### **Scholarship Precalculus cont.)**

logarithms, sequences, series, binomial expansion, matrices, trigonometry, and an introduction to calculus. A specific graphing calculator is required. Please see the math department web site or ask a math teacher for details. **This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1**

**Prerequisite: Scholarship Algebra II**

### **Honors Precalculus**

The course is a continuation of the study of algebra, and it is designed to prepare the college-bound student for college level mathematics. The content includes skills from Honors Algebra II, logarithmic functions, inequalities, matrices, sequences and series, mathematical induction, complex numbers, the binomial theorem, graphing, conics, limits and basic differentiation. Trigonometry topics include triangles, radian measures, identities and trigonometric equations, graphing inverse functions, complex numbers, and vectors. A specific graphing calculator is required. Please see the math department web site or ask a math teacher for details.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Grade 11**

**Prerequisite: Honors Algebra II**

### **Scholarship Calculus**

This course is designed to prepare the college-bound student for college level calculus. The class focuses on limits, derivatives, and integrals, which are the main themes for the first semester college calculus course. A specific graphing calculator is required. Please see the math department web site or as a math teacher for details.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1 credit**

**Grade 12**

**Prerequisite: Scholarship Precalculus**

### **Advanced Placement Calculus (AB)**

This yearlong course is designed to prepare students for the AB level AP calculus exam. It is equivalent to one year of college calculus. This course covers limits, derivatives, integrals, differential equations, and their applications. Students are expected to take the AB level AP Calculus exam in May. A specific graphing calculator is required. Please see the math department web site or ask a math teacher for details.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Grade 12**

**Prerequisite: Honors Pre-Calculus**

### **Advanced Placement Calculus (BC)**

This is a rigorous yearlong course that is designed to prepare students for the BC level AP Calculus exam. It is equivalent to one year of college calculus. This course covers all of the AB Calculus curriculum along with additional topics such as improper integrals, parametric and polar equations, and series. Students are expected to take the BC level AP Calculus exam in May. A specific graphing calculator is required.

**This course receives weighted grading of 5.0 on a 4.0 scale**

**Year / 1 credit**

**Grade 12**

**Prerequisite: Honors Precalculus**

### **Advanced Placement Statistics**

This course will include the study of graphical and numerical analysis of data and patterns, experimental design, probability distributions, and statistical inference. The class will have a largely "hands on" approach, emphasizing the learning of statistical and experimental methods through real-world projects and computer simulations. Each

### **(Advanced Placement Statistics cont.)**

student is expected to take the AP Statistics exam in May. A specific graphing calculator is required. Please see the math department web site or ask a math teacher for details.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Grades 11-12**

**Prerequisite: Students enrolling for AP Statistics must fit one of the following requirements:**

- 1. Previously earned credit for Precalculus.**
- 2. Previously earned credit for Scholarship or Honors Algebra II and be concurrently enrolled in a Precalculus course.**
- 3. Students may not drop Precalculus without first dropping AP Statistics.**

### **Introductory Statistics**

This course is offered as an alternative to a traditional 4<sup>th</sup> year math course. This introductory study of probability and statistics will provide a thorough overview of statistics, without the same rigor as AP Statistics. Topics will include probability, normal distributions, binomial distributions, sampling and experimentation, and estimation. Emphasis is placed on practical applications. A scientific calculator (TI-30 or equivalent) is recommended for this course.

**Semester / ½ credit**

**Grades 11-12**

**Prerequisite: Algebra II**

### **Discrete Math**

This course is offered as an alternative to a traditional 4<sup>th</sup> year math course. This introductory survey of discrete math includes topics such as logic, sets, cryptography, place systems, prime numbers, Fibonacci numbers, graph theory, voting and apportionment, Pascal's triangle, and modular arithmetic. Emphasis is placed on practical applications. A scientific calculator (TI-30 or equivalent) is recommended for this course.

**Semester / ½ credit**

**Grades 11-12**

**Prerequisite: Algebra II**

### **Transition to College Algebra**

This course is offered as an alternative to a traditional 4<sup>th</sup> year math course. This course will reinforce topics typically covered in a College Algebra class including systems, rational expressions and equations, exponential functions, and radical expressions and equations. A scientific calculator (TI-30 or equivalent) is recommended for this course.

**Semester / ½ credit**

**Grades 11-12**

**Prerequisite: Algebra II**

### **Math Applications**

This course is offered as an alternative to a traditional 4<sup>th</sup> year math course. Students will explore applications of mathematical concepts to real world areas such as forensics, sports, music, art, finance, health and wellness, puzzles and games, computer programming, and social media. A scientific calculator (TI-30 or equivalent) is recommended for this course.

**Semester / ½ credit**

**Grades 11-12**

**Prerequisite: Algebra II**

# MUSIC

## COURSES

	<b>GRADE</b>	<b>CREDIT</b>
Treble Choir	9-10	1
Concert Choir	9-10-11-12	1
Beavercreek Chorale	11-12	1
Women's Choir	10-11-12	1
Varsity Band	9-10-11-12	1
Concert Band	9-10-11-12	1
Symphonic Band	9-10-11-12	1
Wind Symphony	9-10-11-12	1

## **PERFORMING ENSEMBLES – VOCAL**

### **Treble Choir**

Treble Choir is a performance group dedicated to a variety of vocal repertoire. It is open to all 9<sup>th</sup> - 10<sup>th</sup> grade students who have an interest in choral music and performance. Students continue mastery of vocal production, music literacy, and voice-part independence skills. Concert and popular music literature, both sacred and secular, of medium to advanced difficulty is performed. Mandatory public performances include Cabaret, holiday, winter and spring concerts, and O.M.E.A. District and State contests. Students are required to attend any evening and/or after school rehearsals scheduled by the director. Participation in 2 fundraisers is required. A vocal audition is required prior to enrollment in this class.

**Year/ 1 credit**

**Grades 9-10**

**Prerequisite: Audition**

### **Concert Choir**

Concert Choir is a mixed performance group dedicated to a variety of vocal repertoire. This course is open to all 9<sup>th</sup> - 12<sup>th</sup> graders who have an interest in choral music and performance. Students continue mastery of vocal production, music literacy, and voice-part independence skills. Concert and popular music literature, both sacred and secular, of medium to advanced difficulty is performed. Mandatory public performances include Cabaret, holiday, winter and spring concerts, and O.M.E.A. District and State Contests. Students are required to attend any evening and/or after school rehearsals scheduled by the director. Participation in 2 fundraisers is required. A vocal audition is required prior to enrollment in this class.

**Year / 1 credit**

**Grades 9-10-11-12**

**Prerequisite: Audition**

### **Beavercreek Chorale**

Beavercreek Chorale is a mixed performing group open to students in grades 11 - 12 who have formal choral experience and a basic knowledge of music theory. Members of this advanced chorus are enrolled by audition only and must be willing to put in the time and effort it takes to rehearse and perform difficult music. Instruction will be in music theory and required solfeggio reading (sight-singing). Each day, students work on music theory and concert music. Activities in this class revolve around quality repertoire in many diverse styles of choral literature that are appropriate in difficulty and range for advanced students. Students will master vocal production, music reading and part independence skills. Concert and popular music literature, both sacred and secular, of advanced is performed. Sight-singing, reading music notation, learning good skills for listening to choral music, healthy vocal technique, and self-evaluation and concert performances make up the content and grade of the course. Students must be willing to sing actively each day and will be expected to learn music chosen by the director. Mandatory performances include regularly scheduled concerts, such as Cabaret, holiday, winter and spring concerts and graduation. This choir will also perform at District and State O.M.E.A. contests each year and other concerts as required by the director. Participation in 2 fundraisers is required. A vocal audition is required prior to being enrolled in this class.

**Year / 1 credit**

**Grades 11-12**

**Prerequisite: Audition unless waived by the director and prior choral experience.**

### **Women's Choir**

Women's Choir is the most advanced vocal ensemble offering. Women's choir produces and performs at least 4 concerts annually and consists of a girls-only ensemble. In addition, the group makes guest appearances for many community events and fundraisers. This select vocal course has limited enrollment based upon the need for specific vocal parts; the need may vary year to year. Extensive knowledge of music theory is required. Instruction will be in advanced music theory and required solfeggio reading (sight-singing). Students are vocally challenged through advanced level of singing and complex harmonies from choral music from Medieval Period up to Twentieth Century atonal compositions. Students will work on music theory and sight-singing daily. Mandatory performances include regularly scheduled concerts, such as holiday, winter and spring concerts, O.M.E.A. District and State Contests, graduation and other concerts, as required by the director. Students are required to attend any evening and/or after school rehearsals scheduled by the director. Participation in 2 fundraisers is required. A vocal audition is required prior to enrollment in this course.

**Year / 1 credit**

**Grades 10-11-12**

**Prerequisite: Audition, Limited**

## **PERFORMING ENSEMBLES – INSTRUMENTAL**

### **Varsity Band**

Varsity Band is a select band that offers the entry-level high school instrumental music student a variety of opportunities in musical performance. Performing the finest of band literature from rock to classical, this ensemble performs in a series of concerts throughout the year. This ensemble also participates in O.M.E.A. events. Students are graded on their daily class work and recorded musical tests. They are also expected to keep a points log of outside musical experiences. Students earn points for activities such as outside school performances, concerts, lessons, or attending or viewing any musical activity.

**Year / 1 credit**

**Grades 9-10-11-12**

**Prerequisite: Director permission and placement audition is needed for entry into this ensemble.**

### **Concert Band**

Concert band is a select band that offers the intermediate level high school instrumental music student a variety of opportunities in musical performance. Performing the finest band literature from rock to classical, this ensemble performs in a series of concerts throughout the year. This ensemble also participates in O.M.E.A. events. Students are graded on their daily class work and recorded musical tests. They are also expected to keep a points log of outside musical experiences. Students earn points for activities such as outside school performances, concerts, lessons, or attending or viewing any musical activity.

**Year / 1 credit**

**Grades 9-10-11-12**

**Prerequisite: Director permission and placement audition is needed for entry into this ensemble.**

### **Symphonic Band**

Wind Symphony is a select band that offers the most advanced level high school instrumental music student a variety of opportunities in musical performance. Performing the finest band literature from rock to classical, this ensemble performs in a series of concerts throughout the year. This ensemble also participates in O.M.E.A. events. Students are graded on their daily class work and recorded musical tests. They are also expected to keep a points log of outside musical experiences. Students earn points for activities such as outside school performances, concerts, lessons, or attending or viewing any musical activity.

**Year / 1 credit**

**Grades 9-10-11-12**

**Prerequisite: Director permission and a placement audition is needed for entry into this ensemble.**

### **Wind Symphony**

Wind Symphony is a select band that offers the most advanced level high school instrumental music student a variety of opportunities in musical performance. Performing the finest band literature from rock to classical, This ensemble also participates in O.M.E.A. events. Students are graded on their daily class work and recorded musical tests. They are also expected to keep a log of outside musical experiences. Students earn points for activities such as outside school performances, concerts, lessons, or attending or viewing musical activity.

**Year / 1 credit**

**Grades 9-10-11-12**

**Prerequisite: Director permission and placement audition is needed for entry into this ensemble.**

***\*All music courses have fees that are charged through Beaver Creek Music Parents Association (BMPA) for uniform, music and costume cleaning.***

## PHYSICAL EDUCATION

Each physical education class is one semester. Students must take a minimum of two different classes to obtain their physical education credit for graduation.

### Health

This course includes material that will help students mature physically, mentally, and socially. Physically, students will learn through the study of body systems, diseases, nutrition, and physical fitness. Mentally and socially, students will learn through the study of personality development, the growing process, human sexuality, and learning to recognize and solve problems of living. The course also includes a study of chemical dependency, community health, communicable diseases, major health problems, consumer health, environmental health, and health careers. **Health is a semester class that is required by the state of Ohio for graduation.** The course is recommended to be taken during the freshman year.

**Semester / ½ credit**

**Grades 10-11-12**

### Fitness

Fitness is a part of all physical education courses. Students will have the skills and knowledge necessary to develop their own personal physical activity program. Students will assess personal fitness in terms of cardiovascular endurance, muscular strength and endurance, flexibility and body composition. Realistic, but challenging, individual goals will be established and a program will be designed to meet identified goals. Students will be expected to actively participate in a variety of fitness activities, which may include running, strength building, stretching, determining body fat percentage, and demonstrating proper technique during exercise.

### COURSES

Health

**GRADE**

10-11-12

**CREDIT**

½

### **Level II Physical Education**

Outdoor Education

10-11-12

¼

Team Sports

10-11-12

¼

Lifetime/Recreation Activities

10-11-12

¼

Weight Training

10-11-12

¼

### **Level III Physical Education**

Sports Medicine

11-12

¼

## LEVEL II

### Outdoor Education

Students will participate in outdoor activities which may include biking, hiking, canoeing/kayaking, skiing/snowboarding, bowling, Frisbee golf, outdoor adventure activities, geocaching, and wilderness safety and survival. The class focus will be cooperative learning, outdoor adventure, and outdoor skill improvement. Field Trips may require additional fees.

**Student must provide a working bicycle and helmet. No dirt bikes permitted.**

**Semester / ¼ credit**

**Fee - \$25**

**Grades 10-11-12**

### Team Sports

Students will actively participate in a variety of team/individual sports (such as table tennis, bowling, football, basketball, team handball, soccer, angleball, ultimate football). The class focus will be sport activities, sportsmanship, team building, and game-skill improvement. Field Trips may require additional fees.

**Semester / ¼ credit**

**Fee - \$25**

**Grades 10-11-12**

### **Lifetime/Recreational Activities**

Students will actively participate in a variety of lifetime and recreational activities (such as volleyball, volley tennis, tennis, badminton, Frisbee gold, bowling, corn hole, mat ball). The class focus will be lifetime activities, sportsmanship, and game-skill improvement. Field Trips may require additional fees.

**Semester / ¼ credit**

**Fee - \$25**

**Grades 10-11-12**

### **Weight Training**

Students will develop a strength or sport specific training plan and gain knowledge of safe weight room practices and proper lifting technique. The class focus will be improving muscular strength, agility and muscular endurance. Recreational activities will be included in this program to aid in muscle repair.

**Semester / ¼ credit**

**Fee - \$25**

**Grades 10-11-12**

## **LEVEL III**

### **Sports Medicine**

Students will gain knowledge and experience in athletic training, as well as injury prevention, evaluation and rehabilitation of athletic injuries. The class focus will be first aid and basic anatomy and physiology of the human body. Field Trips may require additional fees.

### **PE WAIVER**

*Beavercreek City Schools has adopted a policy that allows a Physical Education (PE) waiver. The PE waiver rules must follow the Ohio Department of Education (ODE) guidelines. The ODE guidelines exempt students who participate in interscholastic athletics, marching band or cheerleading for two full seasons or two years of AFJROTC from the physical education requirements. Students must take another course, which cannot be a physical education course, of at least 60 contact hours. Please visit the high school web page for additional information on the Physical Education Waiver.*

## SCIENCE

All students need three science credits for graduation: Physical Science, Biology, and one Advanced Science elective. Chemistry and Physics are recommended for college bound students. Chemistry courses, Physics courses, and AP courses are available to juniors and seniors. The lab fees listed for the various science courses cover the cost of the materials used by individual students. These materials include consumable supplies, laboratory manuals or notebooks, and goggles (freshmen only). **The fee does not cover the breakage of lab equipment. Charges for broken items will be assessed as needed.**

<b>COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>
Biology	10	1
Scholarship Biology	10	1
Advanced Placement (AP) Biology	11-12	1
Chemistry	11-12	1
Scholarship Chemistry	11-12	1
Honors Chemistry	11-12	1
Advanced Placement (AP) Chemistry	11-12	1
Physics	11-12	1
Scholarship Physics	11-12	1
Honors Physics	11-12	1
Advanced Placement (AP) Physics	11-12	1
Astronomy	10-11-12	½
Forensic Science	10-11-12	½
Field Biology	10-11-12	½
Marine Sciences	10-11-12	½
Environmental Science	10-11-12	½
Human Anatomy & Physiology	11-12	1

### **Biology**

This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Topics of study will include heredity, evolution, cellular biology, genetics, biochemistry and ecology to provide a framework to explore the living world, the physical environment and the interactions within and between them. Students engage in inquiry based laboratory work, including dissections of preserved materials, to understand and explain the complexity of organisms.

**Year / 1 credit**

**Fee - \$25**

**Grade 10**

### **Scholarship Biology**

This level of biology is for students who are self-motivated and interested in an in-depth study of life-science topics. The course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Topics of study will include heredity, evolution, cellular biology, genetics, biochemistry and ecology to provide a framework to explore the living world, the physical environment and the interactions within and between them. Students engage in inquiry based laboratory work, including dissections of preserved materials, to understand and explain the complexity of organisms.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / ½ credit**

**Fee - \$25**

**Grade 10**

**Prerequisites: "B" average in Scholarship Physical Science**

### **Advanced Placement (AP) Biology**

AP Biology parallels a college-level introductory biology course for science majors. It includes laboratory work and analysis, college-level reading, essay writing, and class discussions. A college textbook and lab manual will be used. This course will further develop previously taught life science concepts. Students must be willing to spend time outside class reading and analyzing concepts. Areas of study include molecular and cellular biology,

### **Advanced Placement (AP) Biology (continued)**

biochemistry, cellular energetics, heredity, molecular genetics, evolution, organism biodiversity, and population biology. This class is designed to prepare students for the AP Biology exam in May.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$35**

**Grades 11-12**

**Prerequisite: Scholarship Biology, Scholarship Chemistry or Honors Chemistry, and teacher recommendation**

### **Chemistry**

This course will extend chemistry concepts studied in Physical Science before giving a broad overview of the rest of the Chemistry discipline. This course will require fewer math skills as ideas will be covered conceptually where applicable; however, a solid knowledge of basic algebra, percentages, rounding and fractions will be essential. **A co-requisite of Algebra II or higher is suggested but not required.**

**Year / 1 credit**

**Fee - \$30**

**Grades 11-12**

**Prerequisite: Biology and Geometry as well as recommendations from science and math teachers**

### **Scholarship Chemistry**

This course is designed for those who excel in school or have a high ability in math and science. The course will cover the traditional topics of chemistry in more depth than the introductory level and requires individual initiative and self-discipline. Labs focus on quantitative experiments and are a major part of the course. **A co-requisite of Scholarship Algebra II is suggested but not required.**

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$30**

**Grades 11-12**

**Prerequisite: Scholarship Biology, Scholarship Geometry or recommendations of both science and math teachers.**

### **Honors Chemistry**

This course is designed for those who seek an in-depth study of chemistry or are planning to take AP Chemistry. The course will move quickly through introductory material in order to cover the advanced topics necessary for success in the AP course. Labs focus on quantitative experiments and are a major part of the course.

**A co-requisite of Honors Algebra II or higher is suggested but not required.**

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$30**

**Grades 11-12**

**Prerequisite: Scholarship Biology, Honors Geometry, or recommendations of both science and math teachers.**

### **Advanced Placement (AP) Chemistry**

The Advanced Placement Chemistry course is designed to be equivalent to the general chemistry course that might be taken during the first college year. The course builds concepts from Honors Chemistry by emphasizing calculations and mathematical formulation of principles as well as quantitative, inquiry-based laboratory experiments. Students are expected to take the AP Chemistry Exam in May.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$30**

**Grades 11-12**

**Prerequisite: "B" average in Honors Chemistry or an A average in Scholarship Chemistry**

### Physics

Physics is a study of matter and energy and the mathematical relationship between matter and energy. Topics that will be studied in this course include: mechanics (vectors, motion, and forces), properties of matter, heat, waves, sounds, optics, electricity, and magnetism. Laboratory experiments will be an integral part of this course. Physics is strongly recommended for any student interested in further study of science or engineering.

**Year / 1 credit**

**Fee - \$25**

**Grades 11-12**

**Prerequisite: "C" average in Algebra II and recommendation of science and math teachers**

### Scholarship Physics

Physics is a study of matter and energy and the mathematical relationship between matter and energy. Topics that will be studied in this course include: mechanics (vectors, motion, and forces), properties of matter, heat, waves, sounds, optics, electricity, and magnetism. Students are expected to have good algebraic and trigonometric skills to use in problem solving. Laboratory experiments will be an integral part of this course. Physics is strongly recommended for any student interested in further study of science or engineering.

**This course receives weighted grading of 4.5 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$25**

**Grades 11-12**

**Prerequisite: "B" average in Scholarship Algebra II and recommendation of science and math teachers**

### Honors Physics

This course will include in-depth study of physics topics including: mechanics (vectors, motion, and forces), properties of matter, thermodynamics, waves, electricity and magnetism. Students are expected to have strong algebraic and trigonometric skills to use in problem solving. Laboratory skills will be emphasized in this course. This course is highly recommended for students planning a career in science, engineering, or medicine. Students successful in Pre-AP Physics will be prepared to take Advanced Placement (AP) Physics or college physics.

**This course receives weighted grading of 5.0 on a 4.0 scale. A co-requisite of Honors Pre-Calculus or higher is suggested but not required.**

**Year / 1 credit**

**Fee - \$25**

**Grades 11-12**

**Prerequisite: "B" average in Honors Algebra II and recommendation of science and math teachers**

### Advanced Placement Physics: Mechanics

#### Advanced Placement Physics: Electricity and Magnetism

Advanced Placement Physics is a first year, Calculus-based, college level physics course. This course is designed to prepare the student for the Physics level C Advanced Placement Exam in Mechanics and Electricity and Magnetism. The AP Physics level C Examination in Mechanics will be required unless the teacher advises the student otherwise. Although students must be willing to spend time outside class analyzing challenging problems and concepts, there will be additional class time to allow for extra assistance for students. Laboratory work is an essential part of this course.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$35**

**Grades 11-12**

**Prerequisite: Scholarship Physics or Honors Physics**

**Co-requisite: Advanced Placement Calculus (BC) (or prior successful completion of AP Calculus BC)**

### Astronomy

In this course, students will gain an understanding of the scientific study of astronomy and the methods astronomers use to probe the universe. Topics of study include: understanding astronomical calculations, celestial mechanics and moon phases, properties of light, formation of the solar system and stars, as well as space research and travel. There will be optional evening stargazing events available for students.

**Semester / ½ credit**

**Fee - \$10**

**Grades 10-11-12**

**Prerequisite: Biology**

### **Forensic Science**

This cross-curricular, lab-based course allows students to apply scientific knowledge and methods to establish the facts of criminal cases. This course will integrate concepts from Math, English Language Arts, and Social Studies, along with a variety of sciences, including Biology, Chemistry, Anatomy and Physics. Topics of study include: fingerprints, hair, fibers, blood evidence, DNA analysis, toxicology, forensic entomology, forensic anthropology, document analysis, and ballistics.

**Semester / ½ credit**

**Fee - \$10**

**Grades 10-11-12**

**Prerequisite: Biology**

### **Field Biology**

This course gives students a rare opportunity to take a science course in the most natural classroom of all - the great outdoors. Using the Ferguson Land Lab and Little Beaver Creek, students will be involved in the identification and ecology of amphibians, birds, fish, insects, mammals, reptiles, trees, and wildflowers. Additionally, students will learn about and experience current ecological issues, bird banding, forest and fish surveys, predator-prey games, wildlife management, orienteering, and other topics.

**Semester / ½ credit**

**Fee - \$5**

**Grades 10-11-12**

**Prerequisite: Biology**

### **Marine Sciences**

This course investigates the new and growing science of the oceans. Topics of study include: maritime history, formation and destruction of ocean basins, seawater chemistry, and movement through waves, currents, and tides. Students will also explore marine life and their function in various ocean zones. Students may have the opportunity to try SCUBA diving and a field trip to Newport Aquarium. This course requires lab work, dissection, and other hands-on assignments.

**Semester / ½ credit**

**Fee - \$15**

**Grades 10-11-12**

**Prerequisite: Biology**

### **Environmental Science**

This course will help students explore and understand ecology, patterns and cycles on earth, natural resources, and environmental issues, along with developing an appreciation for nature. Students will utilize books, videos, periodicals, and frequent trips in surrounding habitats to gather data, take measurements, and make observations on how both living and non-living components of the environment interact with each other. Students will discuss and debate current environmental issues.

**Semester / ½ credit**

**Fee - \$10**

**Grades 10-11-12**

**Prerequisite: Biology**

### **Human Anatomy & Physiology**

Anatomy and Physiology is the study of the human body's structure and function. Throughout this course, students will investigate the human body systems. This class is helpful in preparation for any profession in the medical field. Dissections are integral components of the course.

**This course may receive weighted grading of 4.5 on a 4.0 scale upon successful completion of additional requirements.**

**Year / 1 credit**

**Fee - \$25**

**Grades 11-12**

**Prerequisite: "C" average or better in Biology; suggested Chemistry**

# Social Studies

<b>COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>
Current Events	9-10-11-12	½
Design Thinking 101	9-10-11-12	½
Design Thinking 201	9-10-11-12	½
Design Thinking 301	10-11-12	½
Modern US History	10	1
AP US History	10	1
American Icons and Legends	10-11-12	½
Introduction to Psychology	10-11-12	½
Introduction to Sociology	10-11-12	½
Sports in Society	10-11-12	½
America's Wars	10-11-12	½
History Through Film	10-11-12	½
Contemporary Issues	10-11-12	½
Law & Society	11-12	½
Government and Politics	11	1
AP Government	11-12	1
AP World History	11-12	1
AP European History	11-12	1
AP Psychology	11-12	1

## **Current Events**

This survey course will examine the major events that are shaping our world today. Students will research, discuss, and debate how what is happening today will impact what happens tomorrow. Students will gain an understanding and appreciation of geography and its impact on world events.

**Semester / ½ credit**

**Grades 9-10-11-12**

## **Design Thinking 101: Designing for Our Community – An Introduction to Product Design**

In this course, students will learn about object design, discover, and solve problems in the school. Students will learn the Design Thinking process, identify problems, develop empathy for users, and then test out solutions through prototyping. This course includes heavy amounts of visual communication, work in collaborative teams, reflective writing, and oral presentation. The course consists of three main projects, each varied in length and complexity. Due to the use of sensitive and expensive tools during the prototyping phase, appropriate conduct is required of all students.

**Semester / ½ credit**

**Grades 9-10-11-12**

## **Design Thinking 201: Design Studio – An Introduction to Designing for Impact**

In this award-winning class, students will learn and apply a collaborative, hands-on approach to solving problems known as Design Thinking, and work to identify problems and create positive social and environmental impact in our community. Students work in small teams to dive into global and local challenges in a human-centered way. Teams will communicate the impact of their work through visual stories and group presentations, while students individually write reflections throughout the course. The course consists of four to five projects, each varied in length and complexity, including Creative Gym (a review of the Design Thinking mindsets), Impact Challenges, and an online Exposure project. Due to the use of sensitive and expensive tools during the prototyping phase, appropriate conduct is required of all students.

**Semester / ½ credit**

**Grades 9-10-11-12**

### **Design Thinking 301: Advanced Design Studio – Beyond the Body: Rethinking Physical Ability**

In this course, students will build on the collaboration and problem solving skills developed in Design Thinking 101 or 201 to explore the line between technology and physical ability. Advanced prototyping methods, including 3D printing will be introduced, and sophisticated methods of user research that will help students explore social impact problems in their community. The course will consist of four projects, each varied in length and complexity, and the activities are framed to prepare students to design their own projects. Students will begin by addressing mini challenges, learn to define problems and needs through more open-ended challenges, and finally learn how to identify, define, and address problems on their own through student-driven projects. Due to the use of sensitive and expensive tools during the prototyping phase, appropriate conduct is required of all students.

**Semester / ½ credit**

**Grades 10-11-12**

**Prerequisite: Design 101 or Design 201**

### **Design Thinking 401: Advanced Design Studio II – Self Directed Design Projects**

In this course, students will build on their prior experience using the design process to collaboratively identify and address real-world-problems and the self-designed projects in Design Thinking 301. The course starts with structured group activities, a design challenge, and then opens up into a design studio, where students self-organize around challenges and ideas they bring. Students will develop their own projects focusing on interesting problems and possibilities by exploring their own ideas and interests, develop deeper understanding of problems, and build real products and services that benefit others. The design process will be used to move confidently from problem identification to tested prototypes and visual storytelling. The course will consist of at least three projects, each varied in length and complexity. Due to the use of sensitive and expensive tools during the prototyping phase, appropriate conduct is required of all students.

**Semester – ½ credit**

**Grades 11-12**

**Prerequisite: Design 301**

### **Modern U. S. History**

This course examines the recent history of the United States of America. Students will examine the political, economic, social, cultural, geographical, and foreign policy history of the United States. This course will begin during the late 19<sup>th</sup> century with the explosion of industrialization, immigration, and urban development and the challenges these developments posed for the early 20<sup>th</sup> century. The Progressive Era, World War I, the turbulent 20's, the Great Depression, World War II, the Cold Movement, the modern Civil Rights Movement, and the Vietnam War will also be examined in-depth. Students will have the opportunity to study recent events involving women, minorities, politics, contemporary cultural issues and court cases. Students will be expected to complete projects, written reports, oral presentations, and essays, which assess their understanding of the historical and cultural themes. *\* State mandated Financial Literacy is taught in this course.*

**Year / 1 credit**

**Grade 10**

### **AP U.S. History**

This course is designed to provide students with the analytical and factual knowledge necessary to think critically about the problems and issues in American History. The course will examine colonization through recent 20<sup>th</sup> Century U.S. and its interaction with world events from six perspectives: American heritage, world interaction, economics, cultural and ethnic groups, democratic processes and citizenship rights and responsibilities. Students will participate in debates, reading and interpreting primary sources. Students will utilize higher level thinking skills and connect American History to relevant current events. Students should possess a strong foundation in reading, writing and critical thinking skills, as the workload of this course is extensive and demanding. Students will be evaluated on their ability to write free responses and document-based essays as well as critical book reviews. Students are expected to take the Advanced Placement test in May. *\*State mandated Financial Literacy is taught in this class.*

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 Credit**

**Fee - \$21**

**Grade 10**

**Prerequisite: Honors World History**

### **American Icons and Legends: 1900 - present**

The history of our world has been shaped by the words, beliefs, and actions of individuals. Through an in-depth study of these people we can better understand the political, social, and economic impact they had on civilization and their legacy on future generations. This course will be project-based and the students will work together to choose the icons and legends to be studied for the semester. Study will be on categories of individuals, including Rebels and Resisters, Outlaws, Artists, Pop Icons, Empire-Builders, Symbols/ Companies, and First Women.

**Semester / ½ credit**

**Grades 10-11-12**

### **Introduction to Psychology**

This course introduces students to the study of psychology. The course will expose students to the historical beginnings of psychology and its effects on society today. Units on founders, theories of development, personality, memory, learning, the human brain, fields of psychology, and perception provide students comprehensive view of psychology. Research methods of modern psychologist and pertinent experiments will be explored and discussed. This course uses hands-on approaches.

**Semester / ½ credit**

**Grades 10-11-12**

### **Introduction to Sociology**

This course introduces students to Sociology, which is the study of human social behavior, groups and organizations, and society. Students will learn how to use the sociological perspective in examining individuals lives and social experiences. Students will learn that many aspects of life are influenced by the social world in which we live. The key component of this course is to study ourselves as individuals and the society that influences our behavior.

**Semester / ½ credit**

**Grades 10-11-12**

### **Sports in Society**

This course examines sports as a key aspect American society, culture, and customs. By studying the major themes, events and people that have made up the American sports experience, students will gain a deeper understanding of society, the struggles that have been overcome, and the hurdles still facing the nation.

**Semester / ½ credit**

**Grades 10-11-12**

### **America's Wars**

This course will take a closer look at American military conflicts from early settlement to present day. America's involvement in war has had significant political, social, and economic effects not only on the United States, but on the world as a whole. This course will delve further into tactics and leaders of battles. The focus will be on less known conflicts: French and Indian War, War of 1812, Mexican American War, Spanish American War, WWI, Korea, Vietnam, and Desert Storm. This course will study the inter-relationships of warfare, technology, and society in American history. Students will examine the evolution of weapons and tactics over the years. The impact of military technology and the changing military on the home front will also be studied in this course.

**Semester / ½ credit**

**Grades 10-11-12**

### **History Through Film**

This course is a study of film and how it depicts trends, issues, and other various events throughout history. In this course, students will use film, literature, primary, and secondary sources to understand and evaluate political, social and cultural movements that have shaped history. In addition to viewing films, students will be expected to complete readings on assigned topics and multiple writing activities. Students will develop skills such as identifying bias, evaluating information presented in multiple formats, presenting information informally, and writing and defending their position(s). Students will build on their knowledge of history to focus on a deeper content analysis.

**Semester / ½ credit**

**Grades 10-11-12**

### **Contemporary Issues**

In this course, students will learn about contemporary issues and events affecting the United States using the following themes: Civil rights and reform movements, societal trends, and foreign and domestic policy. The class will examine the historical roots of events that have had an impact on our society over the last fifty years, analyze the causes of the events covered within the themes, and evaluate challenges and institutions which exist today. Students will be expected to complete projects, written reports, oral presentations and essays that assess their understanding of the historical and cultural themes.

**Semester / ½ credit**

**Fee - \$12**

**Grades 11-12**

### **Law and Society**

This semester class is intended to promote a foundational understanding of the concept of law and its origins, development, and role in society. The following topics will be covered: Development of Law and Society, Individual Rights and the Law, Criminal Law and the Trial Process, Civil Law, Contemporary Issues and Law Enforcement Agencies. Information will be presented in a variety of ways including lecture, class discussion, textbook readings, videos/movies, individual and group projects, etc. to allow students to explore the definition of law, citizen rights and responsibilities under the law, the legal process, and important/controversial issues that impact our country today.

**Semester / ½ credit**

**Grades 11-12**

### **Government Principles and Practices**

This course will encourage all students to become active participants in the democratic process. This course will assess the procedures of the legislative, executive and judicial branches within the federal system of government and explore alternative solutions to questions presented. Students will also examine key documents, which form the basis for the United States of America. This course adheres to criteria set forth in Ohio's Learning Standards and prepares students for required state assessments.

**Semester / ½ credit**

**Grade 12\***

**\* With administration recommendation**

### **Government and Politics**

This year long, current event focused course will assess the procedures of the legislative, executive and judicial branches within our federal system of government. The role of political parties, interest groups, the media, elections, and political officials' accountability to the public will be analyzed. This course covers all areas of political theory, foreign policy, and political history. Student debates, discussion groups, government simulations, field observations, guest speakers, and various technology tools may be used. Examination of key documents, which form the basis for the United States of America, will also be a focus of the course. Students are expected to critically evaluate all materials and explore alternative solutions to questions presented. This course adheres to criteria set forth in Ohio's Learning Standards and prepares students for required state assessments.

**Year / 1 credit**

**Grade 11**

### **AP Government**

This AP course will provide students with the analytical skills and factual knowledge necessary to critically assess problems and materials in US government and political science. This course will assess the procedures of the legislative, executive, and judicial branches within our federal system of government. The role of political parties, interest groups, the media, elections, and political officials' accountability will be analyzed. Economic forces and their impact on government decisions will be explored. This course covers all areas of political theory, foreign policy, and political history. Students will assess political materials, their relevance to a given political problem, their reliability, and their importance. Advanced reading comprehension and critical thinking skills are necessary for the outside reading assignments that encompass a large part of the course. It is expected that each student will take the AP Government exam in May.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$20**

**Grades 11-12**

### **AP World History**

This AP course will present the highlights of a world historical approach to the past. The time frame of the course is from 8000 B.C.E. to the present day. Major civilizations from East Asia, South Asia, the Middle East, the Mediterranean, Sub-Saharan Africa, Europe, Russia and the Americas will be surveyed. Five main themes will be studied: Interaction between humans and the environment; development and interaction of cultures; state building; expansion and conflict; economic systems; and the development and change in social structures. Upon completion of this course, students will be prepared to take the AP World History exam in May.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - 21**

**Grades 11-12**

**Prerequisite: "B" average in Scholarship English and a "B" average in Honors or AP U.S. History**

### **AP European History**

In this course, students will think conceptually about European History from 1450 to the present time and apply analytical thinking skills as they learn about the past. Five themes provide areas of historical inquiry for investigation throughout the course: Interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; and individuals and society. Students will be expected to reason about continuity and change over time and make comparisons between historical developments in different times and places. At the conclusion of this course, students will be prepared to take the AP European History exam in May.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$21**

**Grades 11-12**

**Prerequisite: "B" average in Scholarship English and a "B" average in Honors or AP U.S. History**

### **AP Psychology**

This AP course will introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will learn about the ethics and methods psychologists use in their science and practice. This course will address the following topics: History and approaches; research methods; biological basis of behavior; sensation and perception; states of consciousness; learning; cognition; motivation and emotion; developmental psychology; personality; testing and individual differences; abnormal behavior and its treatment; and social psychology. This course will prepare the students to take the AP Psychology exam in May.

**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - \$21**

**Grades 11-12**

# Engineering Technologies – Project Lead the Way

In partnership with the Greene County Career Center, Career Technical courses such as Engineering offer a variety of college credit, industry credentials, and scholarship options. Each course has a potential post-secondary component including bi-lateral agreements with local universities for transferred credit, transferrable credit similar to College Credit Plus called CTAG, industry credentials such as AutoCAD, and Advanced Placement. Engineering students are automatically enrolled in a program that provides a \$3000 scholarship to Sinclair and Clark State. They will also have the opportunity to compete in regional and national competitions through the Technical Student Association (TSA).

<b>COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>
Introduction to Engineering Design PLTW	9-10-11-12	1
Applied Engineering Principles PLTW	10-11-12	1
Aerospace Engineering PLTW	10-11-12	1
Digital Electronics PLTW	10-11-12	1
Computer Science Principles PLTW	10-11-12	1
Engineering Design and Development Capstone PLTW	12 only	1

## Course Descriptions

### Introduction to Engineering Design – Project Lead the Way

Engineers make a world of difference! Students are introduced to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software. Are you ready to design the future?

**Year / 1 credit**

**Grades 9 – 10 – 11 – 12**

### Applied Engineering Principles – Project Lead the Way

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and motion. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. What type of engineer or engineering technologist would you like to be?

**Year / 1 credit**

**Grades 10 – 11 – 12**

**Prerequisite – Earned a passing grade in Geometry or concurrently enrolled**

### Aerospace Engineering – Project Lead the Way

Aerospace engineering transforms the dream of flight into vehicles that ignite our imagination. Students explore fundamentals of flight in air and space through software simulations and hands-on experiences using flite test curriculum. Students learn how these concepts apply to a career in aerospace engineering and to other engineering fields. Where can aerospace engineering take us next?

**Year / 1 credit**

**Grades 10 – 11 – 12**

**Prerequisite – Applied Engineering Principles or concurrently enrolled**

**Digital Electronics – Project Lead the Way** Open doors to understanding electronics and foundations in circuit design. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. Students learn the digital circuit design process to create circuits and present solutions that can improve people’s lives. Learn how advancements in foundational electronic components and digital circuit design processes have transformed the world around you.

**Year / 1 credit**

**Grades 10 – 11 – 12**

**Prerequisite – Applied Engineering Principles or concurrently enrolled**

**Computer Science Principles – Project Lead the Way**

Open doors in any career with computer science! Students create apps for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people’s lives. How will computing and connectivity transform your world?

**Year / 1 credit**

**Grades 10 – 11 -12**

**Prerequisite – Applied Engineering Principles or concurrently enrolled**

**Engineering Design and Development Capstone – Project Lead the Way**

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, ready to take on any post-secondary program or career.

**Year / 1 credit**

**Grade 12 only**

**Prerequisite – Applied Engineering Principles or Introduction to Engineering Design and either have completed or concurrently enrolled in Aerospace Engineering, Digital Electronics, or Computer Science Principles.**

## OTHER ELECTIVES

<b><u>COURSES</u></b>	<b>GRADE</b>	<b>CREDIT</b>
AFJROTC – Aerospace Science I	9-10-11-12	1
AFJROTC – Aerospace Science II	10-11-12	1
Student Council	9-10-11-12	0
Media Center / Information Center	10-11-12	0
Office Aide	10-11-12	0
Peer Helper	10-11-12	0

### **AFJROTC – Aerospace Science I**

The course is made up of three closely related areas: the Aerospace Science portion is an aviation history course focusing on the development of flight throughout the centuries, beginning with ancient civilizations, then progresses through time to modern day. Leadership Education introduces cadets to the AFJROTC program, providing a basis for progression through the rest of the AFJROTC program while instilling elements of good citizenship. The Wellness (fitness) is designed to motivate cadets to lead healthy, active lifestyles beyond program requirements and into their adult lives.

**Year / 1 credit**

**Fee - \$25**

**Grades 9-10-11-12**

**Prerequisites:** All cadets enrolled in this course are **REQUIRED** to wear the Air Force JROTC service uniform and the issued fitness uniform at least one day each week. Uniform wear requires appropriate haircuts/shave for males and appropriate hairstyles for females. Students must also be willing to actively participate in one physical training (workout) session per week.

### **AFJROTC – Aerospace Science II**

The course is made up of three closely related areas: the Aerospace Science portion of the course introduces students to the world's cultures and delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. The Leadership Education portion stress communication skills and cadet corps activities, with information provide on communicating effectively, understanding groups and team, preparing for leadership, problem solving, and personal development. The Wellness (fitness) is designed to motivate cadets to lead healthy, active lifestyles beyond program requirements and into their adult lives.

**Year / 1 credit**

**Fee - \$25**

**Grades 10-11-12**

**Prerequisites:** All cadets enrolled in this course are **REQUIRED** to wear the Air Force JROTC service uniform and the issued fitness uniform at least one day each week. Uniform wear requires appropriate haircuts/shave for males and appropriate hairstyles for females. Students must also be willing to actively participate in one physical training (workout) session per week. Students must also have a recommendation for continuation in the program from AFJROTC Instructors.

Upon satisfactory completion of one year of AFJROTC, students will receive one general elective credit. After two years of satisfactory completion of AFJROTC, students are eligible to receive the Physical Education Waiver authorized by the Ohio Department of Education.

Co-Curricular Activities: AFJROTC offers several clubs and teams that further enhance the classroom experience such as radio controlled aircraft, model rocketry, drill team, orienteering, and academic groups. Cadets **must** enrolled in an AFJROTC course and remain in good academic standing in order to participate.

**NOTE:** There are nominal fees associated with these activities.

**There is no obligation or commitment to the military for participating in the AFJROTC courses.**

**(Other Electives Cont.)**

**Peer Listening**

Peer Listening trains students in problem solving and listening skills. Students in this course will be able to provide other students with a systematic approach to decision-making and problem solving.

**Year / 1 credit**

**Grades 11-12**

**Prerequisite: Application to and selection by instructor**

**Student Council**

Student Council serves as a voice for the student body and a service organization for the school. Members participate in a wide variety of activities, including leadership training workshops, advisory councils, and special projects. Student Council strives to be a positive influence in improving Beaver Creek High School and its environment. The class meets one period each day, is led by five elected officers and has a limited number of students. Selection to Student Council is based on school citizenship and a student's potential to contribute to the student body. Membership is by selection from those who register; it is not an elected office for the regular members. Students may register for the fall or spring semester.

**Semester / No credit**

**Grades 9-10-11-12**

**Media Center/Information Center**

Aides perform tasks such as typing, filing, errands, and assisting students and staff find and check out materials. Computer lab aides help students and staff utilize software. The aides perform a valuable service to the school and use the experience to obtain jobs at the local public library and cinemas.

**Semester / No credit**

**Grades 10-11-12**

**Prerequisite: Application and selection by library staff**

**Office Aide**

Office aides run errands and assist office staff.

**Semester / No credit**

**Grades 10-11-12**

**Prerequisite: Must meet attendance requirements/selection by office personnel**

**Peer Helper**

Peer Helpers serve many functions in special education classrooms. Peer Helpers assist teachers with individual, small and large group activities, and provide positive role modeling for students with disabilities. Two options are available: academic setting or adaptive physical education.

**Semester / No credit**

**Grades 10-11-12**

# VOCATIONAL PROGRAMS

<b><u>COURSES</u></b>	<b>GRADE</b>	<b>CREDIT</b>
CBI	11	4
CBI (GCCC) at BHS	12	5
Marketing Education (GCCC) at BHS	12	5

## **Career Based Intervention (CBI)**

In this co-op program, junior students learn successful work habits and attitudes. CBI work experience includes opportunities in a variety of jobs. Students must be accepted into this program.

**Year / 4 credits**

**Grade 11**

## **Career Based Intervention (CBI - GCCC)**

In this co-op program, senior students learn successful work habits and attitudes. CBI work experience includes opportunities in a variety of jobs. *This is a Greene County Career Center program housed at Beavercreek High School.* Students must be accepted into this program.

**Year / 5 credits**

**Grade 12**

## **Marketing Education (GCCC)**

This course has two components. Component one covers basic business organization for the distribution of goods and services, career opportunities in business, training in retail career skills, and the development of personal-social traits, which are essential for successful employment. In component two, students work part-time for pay. Students receive on-the-job training through supervised work experience. Students enrolled in this course will be excused from school after they have completed their in-school schedule. Students are responsible for their own transportation to and from work. Sinclair Community College will award twelve hours of credit to Beavercreek High School graduates who complete this program. *This is a Greene County Career Center program housed at Beavercreek High School.*

**Year / 5 credits**

**Grade 12**

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## **GREENE COUNTY CAREER CENTER (GCCC)**

The Greene County Career Center provides students two-year career preparation and tech prep programs. The primary purpose of the career preparation programs is to prepare students to enter an ever-changing technical work force. Many GCCC graduates continue their education at post-secondary institutions. GCCC students must meet BHS graduation requirements. Extracurricular activities and graduation take place at or with Beavercreek High School. There are no tuition charges to students other than fees necessary to cover program toolkits, protective clothing, and club fees.

Student admission in some GCCC programs is quite competitive. In programs that fill rapidly, admission is based upon past attendance, grade point average, and related coursework completed. The guidance counselors have information regarding enrollment procedures, program descriptions, and employment opportunities for students desiring job training at the Greene County Career Center.

In compliance with Title VI, IX, and Section 504 Regulations, the Greene County Career Center dedicates itself to providing equal admission opportunities to all people regardless of race, color, national origin, sex, or handicap.

**(GCCC continued)**

The Greene County Career Center (GCCC) proudly serves students from the seven public school districts in Greene County plus those who attend private, home, and parochial schools. GCCC offers career-technical programs for high school juniors and seniors in programs of multiple high skills, high demand, and high wage pathways. These programs are offered at the main campus located on West Enon Road near Xenia and at the Agricultural Research Center - a 49-acre facility with a 14,000-foot indoor riding arena and a 28-stall barn. As a provider of both traditional education and workforce development GCCC offers cutting edge technology, career coaching, college credit courses, career-technical student organizations, and a seamless transition to college or careers. GCCC students have the opportunity to earn industry recognized credentials, participate in work-based learning, and participate in hands-on learning both in the “labs” but also in our academic courses. GCCC is a partner of the Miami Valley Tech Prep consortium and students are eligible for a \$3,000 scholarship to Sinclair Community College and Clark State Community College. With 17 workforce development, 3 tradition, and 5 future programs, there is something for everyone at the Greene County Career Center become a GCCC student today!

**Current List of Programs:**

- Auto Collision
- Automotive Technology
- Construction Technology
- Cosmetology
- Criminal Justice
- Culinary Arts
- Digital Media: Video, Sound, and Animation
- Digital Media: Digital Design and Development
- Electrical Wiring and Motor Controls
- Equine Science
- Health Science Academy
- Information Technology Networking
- Natural Resource Technology
- Power Equipment Mechanics
- Sports and Exercise Science
- Veterinary Science
- Welding and Metal Fabrication
- Career X
- Career Based Intervention
- Project SEARCH

The Greene county Career Center will be opening a new facility in 2020, in addition to maintaining high quality programs that already exist, the Greene County Career Center will be adding five new programs based upon a job market analysis of the Greene county and Miami Valley Region.

**Programs to be added:**

- Advanced Materials Engineering Technology
- Cybersecurity
- UAS Technology
- Automations and Robotics
- Aviation Airframe Maintenance Technology