



**Beavercreek  
High School**

**Ferguson  
Hall**

**Program of Studies  
2020 - 2021**

**Mr. Chris Baker, Interim Principal**

Ms. Laura Bailey, BHS Assistant Principal  
Ms. Yvonne Edwards, BHS Assistant Principal  
Mr. Garey Martin, BHS Assistant Principal

**Mrs. Jaimie Sweet, FH Principal**

Mr. Jonathan Webb, FH Assistant Principal

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

The information contained in this booklet is to assist you in planning your educational program at Ferguson Hall and 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.

Ms. Lindsay Danver, Ferguson Hall Counselor  
Mr. Nic Black, BHS Counselor (A-F) & In-House CCP (A-F)  
Mrs. Julie Smigel, BHS Counselor (G-Mn) & In-House CCP (G-Mn)  
Mrs. Susan Laws, BHS Counselor (Mo-S) & In-House CCP (Mo-S)  
Mrs. Robyn Duley, BHS Counselor (T-Z), In-House CCP (T-Z), & Special Services  
Mrs. Kristi Massey, BHS Counselor (College & Off-Campus CCP)

### **Campus Scheduling Model**

At Beaver Creek High School and Ferguson Hall, providing a variety of course offerings to meet the diverse interests and needs of our students is a core value of the master scheduling process. In order to maximize these opportunities, classes for BHS and FH students are scheduled using a campus model where students may need to travel between buildings during their school day. Using a campus scheduling model ensures that students are provided with diverse learning experiences in innovative classroom settings while maintaining the district's efforts to be fiscally responsible with staffing and course sections.

### **ProgressBook**

Teachers use ProgressBook as the primary tool for communicating grades and academic progress throughout the school year. Students and families are encouraged to monitor ProgressBook regularly in an effort to track students' progress on individual assignments and assessments as well as to access report cards at the end of each quarter.

### **1:1 Technology**

Beaver Creek City Schools strives to prepare students with 21st Century Skills. A major emphasis is placed upon Literacy Skills which encompass informational literacy, media literacy and technology literacy. Beaver Creek High School and Ferguson Hall are 1:1 campuses with each student being provided a Chromebook for academic purposes. Teachers use these devices as electronic classrooms and rely heavily on the Google Platform. Students must take responsibility for their device and use it properly to access the many applications that Google supports for education. Students should bring their charged devices with them daily as they would any physical textbook or notebook.

### **Advisory Period**

Starting in 2019, BHS and Ferguson Hall added an advisory period to the daily schedule. The purpose of this 15-minute period is to create a positive school climate that meets the social-emotional needs of Beaver Creek High School students. Social-emotional learning involves regulating emotions, setting and achieving positive goals, demonstrating empathy for others, creating positive relationships and accepting responsibility. During advisory periods teachers lead lessons that help students to develop and improve these skills. Teachers are also able to identify students that may be struggling socially, emotionally and/or academically and refer the student to see one of our counselors.

## **Beavercreek High School Mission Statement**

Beavercreek 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 Beavercreek High School is to promote the intellectual, social, physical, and creative development of all its students, and in addition 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.

---

## **Ferguson Hall Mission Statement**

Ferguson Hall provides a supportive transition from middle school which helps students meet our high academic standards and prepares them to navigate real world challenges while demonstrating excellent character.

---

## Table of Contents

To the Parents	1
BHS and FH Mission Statements	2
Table of Contents	3
Credits Recommended for College Preparatory Students	4
Fees	4
BHS Graduation Requirements	5
State Testing and Graduation Points	7
College & Career Readiness Test	8
Ohio Academic Honors Diploma	9
Gifted Services for High School Students at Beaver Creek City Schools	11
Scheduling Considerations	13
Class Level Explanations	13
Minimum Student Course Load	13
Schedule Change Policy	13
Withdrawal from a Course	13
Cumulative Grade Point Average	14
Class Rank	14
Valedictorian/Salutatorian Eligibility	14
Athletic/Co-Curricular Eligibility	15
Credit Flexibility/Educational Options	16
College Credit Plus	17
CCP Courses Offered at BHS	21
Summer School	25
Ohio State Tests Remediation Course	25
National Honor Society	26
Class Planning Chart	28
<b>Beaver Creek High School and Ferguson Hall Course Offerings</b>	
Art	29
Business	33
English	38
World Language	46
Industrial Technology	49
Mathematics	51
Music	57
Health and Physical Education	62
Science	65
Social Studies	71
Engineering Technologies – Project Lead the Way	79
Other Electives	82
Vocational Programs	85
CBI (GCCC) at BHS	85
Marketing Education (GCCC) at BHS	85
Greene County Career Center General Information	86

## **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.

State law requires that districts and community schools administer the state-funded ACT or SAT to all students in grade 11 in the spring of the school year. Beaver Creek City Schools have elected to administer the ACT Test free-of-charge to all 11th grade students during the spring of their junior year. The district processes all student registrations and high school faculty are responsible for proctoring the test. Parents and students should expect to receive communication regarding ACT testing throughout the school year. For information regarding the ACT test and test preparation please visit: <https://www.act.org/content/act/en/students-and-parents.html>

### **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. There is a \$30 graduation fee.

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

## Beavercreek High School Graduation Requirements

COURSE	GRADUATION REQUIREMENTS FOR THE CLASS OF 2021-2023	GRADUATION REQUIREMENTS FOR THE CLASS OF 2024 AND BEYOND
English Language Arts ELA 9 , ELA 10 ELA 11, ELA 12 or AP	4 credits	4 credits
Mathematics Algebra I, Geometry, Algebra II, Elective Math	4 credits	4 credits
Science Physical Science, Biology, Advanced Science	3 credits	3 credits
Social Studies World History, U.S. History, Government	3 credits	3 credits
Health	½ credit	½ credit
Physical Education 2 Semester Classes (¼ credit each)	½ credit	½ credit
Fine Arts Art Classes taken in grades 9-12 Music Classes, grades 9-12 Acting I/II taken in grades 9-12	1 credit	1 credit
Electives A combination of: Business, Practical Arts Fine Arts, World Language Electives from Core Areas	5 credits	4½ credits
Economics/Financial Literacy	Taught in U.S. History Class	½ credit

### Other Requirements for the Class of 2021-2023

You must also receive instruction in Economics/Financial Literacy (taught in US History class).

### Other Requirements for the Class of 2024 and Beyond

You must also complete a ½ credit in Financial Literacy. This will be an additional course, not taught in US History class.

## New Permanent Graduation Requirements for the Class of 2023 and Beyond

The State of Ohio passed new permanent graduation requirements in the summer of 2019. These new requirements **apply to the Class of 2023 and beyond**. Students must satisfy two pathways in order to be eligible for graduation:

### Pathways to Graduation

1. **Demonstrate Competency:** Students must demonstrate competency in math and English by passing the state’s algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:
  - Earn credit for one math and/or one English course through College Credit Plus;
  - Demonstrate career readiness and technical skill through foundational and supporting options;
  - Enter into a contract to enlist in the military upon graduation.
  
2. **Preparation for College or Careers:** Students must earn two diploma seals, one of which must be state defined, to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions.

### State-Defined & Locally-Defined Seals

State System of Diploma Seals	
<a href="#">OhioMeansJobs Readiness Seal</a>	<a href="#">Honors Diploma Seal</a>
<a href="#">State Seal of Biliteracy</a>	Technology Seal
Industry-Recognized Credential Seal	Citizenship Seal
College-Ready Seal	Fine and Performing Arts Seal (locally defined)
Military Enlistment Seal	Student Engagement Seal (locally defined)
Science Seal	Community Service Seal (locally defined)

*At this time, the State of Ohio has not yet defined the score that “demonstrates competency” on the Algebra and English II tests. Further information is expected in March 2020. As more information becomes available about the specifics of the new permanent requirements, Beavercreek High School will communicate that to students and parents.*

*\*Students in the Classes of 2021 and 2022 also have the option of earning graduation eligibility through the new permanent requirements.*

*\*Students must earn 21 credits in addition to satisfying the new pathways to graduation*

# State Testing Information

Students in the Classes of 2021 and 2022 are required to take the following seven tests in order to be eligible for graduation:

- **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 testing requirements 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 (Eng. 9) & ELA II (Eng. 10)
- Students must earn at least 4 combined points in Algebra I & Geometry
- Students 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 summer, fall and spring through the fall of their senior year of high school.

## College and Career Readiness Test

Students may be exempted from the required scores on the 7 Ohio State Tests if they earn a remediation-free score on a college and career readiness test. Our district has chosen to use the ACT for this purpose. During 3rd quarter every school year, Beaver Creek High School will give all junior students the ACT during the school day. There will be no cost to students for this test.

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 Beaver Creek City Schools.

# 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, field biology, 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 Beaver Creek City Schools

Gifted students have many opportunities to have their unique learning needs met at Beaver Creek City Schools through advanced/honors, Advanced Placement, Dual Enrollment, and specialized elective courses. Below is a table of classes that provide gifted services to students based on identification areas.

<b>Gifted Identification Area</b>	<b>Advanced/Honors Courses</b>	<b>AP Courses</b>	<b>Specialized Elective Courses</b>	<b>Dual Enrollment (on-campus) CCP Courses*</b>
Math	Scholarship Geometry Honors Geometry Scholarship Algebra II Honors Algebra II Scholarship Precalculus Honors Precalculus Scholarship Calculus	AP Calculus AB AP Calculus BC AP Statistics	Scholarship Accounting II Scholarship Aerospace Engineering - PLTW Scholarship Digital Electronics - PLTW Scholarship Computer Science Principles - PLTW Honors Engineering & Development Capstone - PLTW	MTH 1470 MTH 1570
Reading/Writing	Scholarship English 9 Honors English 9 Scholarship English 10 Honors English 10 Scholarship English 11 Scholarship English 12 Scholarship French III Honors French IV Scholarship German III Honors German IV Scholarship Spanish III Honors Spanish IV	AP Language & Composition AP English Literature & Composition AP French V AP Spanish V AP German	Scholarship Composition Advanced Public Communication In Media Scholarship Aerospace Engineering - PLTW Scholarship Digital Electronics - PLTW Scholarship Computer Science Principles - PLTW Honors Engineering & Development Capstone - PLTW	ENG 1101 ENG 1201 LIT 2212 LIT 2202 COM 2211 SPA 1101 SPA 1102 SPA 2201 SPA 2202
Science	Scholarship Physical Science Scholarship Biology Scholarship Chemistry Honors Chemistry Scholarship Physics Honors Physics Human Anatomy & Physiology	AP Biology AP Chemistry AP Physics: Mechanics	Scholarship Aerospace Engineering - PLTW Scholarship Digital Electronics - PLTW Honors Engineering & Development Capstone - PLTW	BIO 1111/1117 BIO 1211/1217 BIO 1141/1147

Social Studies	Honors World History Scholarship Design Thinking 301 Scholarship Design Thinking 401	AP US History AP Government AP World Hist. AP European History AP Psychology	Scholarship Aerospace Engineering - PLTW Scholarship Digital Electronics - PLTW Scholarship Computer Science Principles - PLTW Honors Engineering & Development Capstone - PLTW	HIS 1102 HIS 1111 HIS 1112 PLS 1120 PSY 1100
Visual Arts Performing Arts	Beavercreek Chorale Women's Choir Symphonic Band Wind Symphony	AP Music Theory	Art II Photography II Honors Art Portfolio Computer Arts II Advanced Acting Advanced Public Communication In Media Varsity Band Concert Band	

A student who is identified as gifted in Superior Cognitive Abilities or Creative Thinking may be challenged through any of the courses listed in the previous table.

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 upon enrollment and staffing criteria.**

## Scheduling Considerations

### Class Level Explanations

English Language Arts, World Languages, Mathematics, Science, and Social Studies courses are divided into levels of instruction: General, Scholarship, Honors, and Advanced Placement (AP). The purpose of this division is to allow the students to choose courses that align with their abilities 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 1.0 point when figuring GPA.

General class work and grades are fully acceptable as college preparatory units of credit.

The Scholarship and Honors courses are more rigorous in pacing and depth of learning than General courses. Special projects may be required in honors or AP courses.

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

### Minimum Student Course Load

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

### Schedule Change Policy

Courses chosen during the scheduling process in the spring are treated as final selections. Student course selections dictate the master schedule created for the school. Important fiscal decisions such as the number of teachers required to offer courses, the number of times to offer a class per school day, and the number of books and other resources to order are made based upon spring course selections. Therefore, we cannot make schedule changes after the schedule is established. Classes will not be changed for social reasons or to accommodate the desire for a specific teacher.

Schedule changes will ONLY be made for the following reasons:

1. Scheduling process error
2. Pre-requisite failure
3. Administrative directive

Requests that meet these requirements should be directed to the student's assigned school counselor.

*\*No credit will be earned for partial completion of a course.*

### Withdrawal from a Course

Withdrawals from a course should be requested as early as possible, preferably before the start of the school year.. **Students that are withdrawn from a course will be placed in a study hall.** If this results in a student having more than one study hall, the request must have administrative approval. The request for withdrawal must be made and completed within six weeks of the start of the semester/year. Second semester withdrawals of a year-long class will not be granted.

Students that request and are allowed to withdrawal after 6 weeks will have WDF (withdrawal with F) placed on their high school transcript.

Requests to withdrawal from a course should be directed to the student's assigned school counselor.

*\*No credit will be earned for partial completion of a course*

### **Cumulative Grade Point Average**

The calculation of a high school student's cumulative grade point average (GPA) uses the final grades from all courses receiving high school credit. Beaver Creek High School does weight courses according to the level of difficulty for calculation of GPA and Class Rank. General courses are on a 4.0 scale. Scholarship classes will earn an additional .50 point to the 4.0 scale. Honors and Advanced Placement courses earn an additional 1.0 to the 4.0 scale. CCP courses usually receive Honors weight but there are some exceptions to this. Below are examples:

<b>General</b>	<b>Scholarship</b>	<b>Honors/AP</b>
A=4.0	A=4.5	A=5.0
B=3.0	B=3.50	B=4.0
C=2.0	C=2.5	C=3.0
D=1.0	D=1.50	D=2.0
F=0	F=0	F=0

### **Class Rank**

At the end of the junior year (6th semester), students will be ranked scholastically. This rank will be based on grade point averages using the final grades from all courses receiving high school credit. This ranking is requested by colleges, and is used for certain senior honors.

### **Valedictorian and Salutatorian**

For a student to be eligible for Valedictorian or Salutatorian at Beaver Creek High School, the student must have enrolled and have received BHS credits during the entire 7th semester. The 7th semester calculation will include all final grades that have high school credit on the weighted scale. The 7th semester will also include marks earned in half unit subjects and semester earned courses. For example, it will include the first semester grade of a yearlong class and any first semester courses that have earned credit. This is the **only** time semester grades of yearlong courses will be calculated into your GPA and Class Rank. The final grade point average for Valedictorian and Salutatorian selection will be rounded to the nearest tenth.

The school policy regarding students moving into our district and calculating their grade point average is the following. Only those advanced level and honors courses, which are weighted and equivalent to those existing in Beaver Creek'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 Beaver Creek curriculum will be calculated using the 4.0 grading scale. The transcript will show all courses that were designated advanced courses by the previous school.

At the end of your senior year, a final transcript will be calculated and sent to the institution you have requested through your senior survey. The calculation of a final transcript will use the student's final grades from all courses receiving high school credit.

### **Athletic/Co-Curricular Eligibility**

All students involved in athletics or competitive co-curricular activities must maintain their academic 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 Beaver Creek 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.

Beavercreek City Schools recognizes the opportunities that CCP courses provide for students to enrich and enhance the academic program while still in high school, as well as the benefits to both students and families in preparation for continuing future academic careers. BCS has embraced the concept of CCP and supports students that are academically, socially, and emotionally ready to begin college course work, whether that is on a college campus or through extensive course options on the Beavercreek High School campus taught by our high school staff as adjunct faculty.

Please note that the timeline below refers to BCS timelines related to students planning to participate in college coursework. Scheduling students in grades 9-12 begins in February, with the purpose of creating a master schedule that meets the needs of students and the district's obligation to make fiscally responsible decisions regarding the number of staff and course sections necessary to maintain appropriate class sizes.

## 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. *Students that have previously participated in CCP are required to resubmit the intent packet annually.*

### Key Dates and Deadlines:

- *Nov. 2019-Jan. 2020* Attend mandatory CCP informational meeting - required (if unable to attend, contact BHS Guidance Office)
- *Feb. 2020* Schedule BCS courses during registration window
- *April 1, 2020* CCP paperwork due (intent form, financial responsibility form, acknowledgement form)
- *May 1, 2020* Application to CCP college due
- *May 22, 2020* Placement testing completed (Math and English recommended)
- *May 22, 2020* CCP survey completed for BHS scheduling
- *June 5, 2020* Provide copy of college schedule (courses not taken at BCS) to Mrs. Massey

## 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 register for BCS courses based on anticipated CCP involvement at a college or university (example: half-day on a college campus equals registering for three BCS courses).* 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.
- BCS is not responsible for any scheduling conflicts between college courses and BCS 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 the student/parent to maintain close communication with both their BCS counselor and academic advisor at the university.

**AMOUNT OF WORK/PACE/RIGOR:**

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.

Courses taken on the college campus/online 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.

**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 (*after college/university final withdrawal date*) 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 *BCS* 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 extracurricular 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. *Beavercreek High School* does not have access to college transcripts.
- All *BCS* students (whether full or part-time) have free access to all *BCS* 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/materials purchased by Beavercreek 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.

COURSE	CRN	CREDIT
First Semester		
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
Subtotal		15
Second Semester		
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
Total		30

## **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 students 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 English 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 English 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 English 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 English 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 Science 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 Science 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 Science 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 Math 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 Math 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 Social Studies Credit (\*American History Equivalent)**

*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 Social Studies 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 Social Studies Credit (\*World History Equivalent)**

*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 Social Studies Credit (\*Government Equivalent)**

*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 Social Studies Credit**

*Placement by Sinclair Community College*

## **ELECTIVES / WORLD 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 Elective 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 World Language 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 World Language 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 World Language 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 World Language Credit**

*Placement by Sinclair Community College*

*Prerequisite: SPA 2201*

## Summer School

Our summer school offers are mainly remedial, in that they are for students who have previously failed the class. Remedial or make-up work will usually be offered in the following areas:

- ◆ English
- ◆ Science
- ◆ Social Studies
- ◆ Math

\*Summer classes are offered only if enough students register and are delivered via the online credit recovery program, GradPoint.

Summer classes are for a 4 week duration. Student, however, may complete a Grad Point recovery class in less than 4 weeks. Once a student has completed the course, their summer school obligation ends.

## Ohio State Tests Remediation Course

Scores for the Ohio State Tests (OST) that are administered every spring are received by the high school in early June. Counselors and administrators review these scores and identify students that may need to retake a test in order to improve their score. Students take Ohio State Tests near the end of the school year in which they were enrolled in the courses that have a state test. Thus, it is advantageous for students to retake a test as quickly as possible after completion of the course while the content/skills are retained by the student.

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

Information about signing up for the two-week remediation course will be communicated to all parents of students in need of improving their score(s). The specific dates and times of the remediation course and the test administration will be made available at that time.

Additionally, remediation courses for students retaking an OST may be offered in the fall prior to the December testing window. These courses will be filled based upon student testing needs.

## 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 Beavercreek 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 Beavercreek 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 predetermined 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 principles 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.

## 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</b> 4 credits required				
<b>Math</b> 4 credits required				
<b>Science</b> 3 credits required				
<b>Social Studies</b> 3 credits required				
<b>Health</b> ½ credit required  <b>Phys. Ed.</b> ½ credit required  <b>And/or elective</b>				
<b>Fine Arts</b> 1 credit required				
<b>Electives</b> 5 credits required (2021-2023)  4½ credits required (2024 and beyond)  Art, Music, Business, World Language, Industrial Tech, AFJROTC, Project Lead The Way, Core Area electives				

<b>Financial Literacy</b> ½ credit required for 2024 and beyond				
--	--	--	--	--

## **BHS AND FH COURSE OFFERINGS**

### **ART**

Students are required to earn one credit in Fine Arts to graduate. All BHS and FH art courses count towards the Fine Arts credit. Students interested in taking any Level II Art course must take Art I-2D as a prerequisite.

<b>LEVEL I COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>	<b>PREREQUISITES</b>
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	10-11-12	½	
Drawing	10-11-12	½	
<b>LEVEL II COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>	<b>PREREQUISITES</b>
Art II	10-11-12	1	Art 1-2D and any other art course or Art 1 full year
Ceramics & Sculpture	10-11-12	½	Art 1-3D OR Art 1 full year
Computer Arts II	10-11-12	½	Computer Arts I
Painting	10-11-12	½	Art 1-2D or Art 1 full year
Photography I	10-11-12	½	Art 1-2D or Art 1 full year
<b>LEVEL III COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>	<b>PREREQUISITES</b>
Photography II	10-11-12	½	Photography I
Honors Art Portfolio	11-12	1	Art II

## Level I Course Descriptions

### **Art 1-2D (This course is a prerequisite for most Level II Art Courses (Art II, Painting, and Photography))**

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 - \$23**

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

### **Art 1-3D (This course is a prerequisite for Ceramics and Sculpture and will not meet the prerequisite requirement for other Level II courses)**

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: graphite, clay, paper mache, plaster, printmaking, found objects, copper tooling, and other sculptural media.

**Semester / ½ credit**

**Fee - \$23**

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

### **Computer Arts I**

This course introduces students to beginning digital art tools and techniques using the 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.

**Semester / ½ credit**

**Fee - \$23**

**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, and may include but are 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 - \$23**

**Grades 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 - \$49**

**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 - \$23**

**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 digital art using the Adobe Creative Cloud Suite. This industry standard software will be taught on Mac computers. 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 - \$23**

**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 - \$23**

**Grades 10-11-12**

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

### **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 - \$29**

**Grades 10-11-12**

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

## **Level III Course Descriptions**

### **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 works of famous photographers, careers in photography, and alternative photo processes. It is recommended that students have a personal SD card and flash drive. Students will create a digital portfolio.

**Semester / ½ credit**

**Fee - \$29**

**Grades 10-11-12**

**Prerequisite: Photography I**

### **Honors Art Portfolio**

This course is extremely important for students who plan to pursue art after high school. This 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. Students will work with a variety of media, frequently focusing on media of their choice. Students will also critique their work and work of others. Students will document their process as they create their art. 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.

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

**Year / 1 credit**

**Fee - \$49**

**Grades 11-12**

**Prerequisite: Art II**

## BUSINESS

COURSES	GRADE	CREDIT	PREREQUISITES
Personal Keyboarding	9-10-11-12	½	
Everything Google and Office	9-10-11-12	½	
Accounting I	10-11-12	½	
Scholarship Accounting II	10-11-12	½	Accounting I
Business 101	9-10-11-12	½	
Entrepreneurship	10-11-12	½	
Personal Finance <i>*Required for Class of 2024</i>	10-11-12	½	
Business and Personal Law	10-11-12	½	
International Business and Management	10-11-12	½	
Sports and Entertainment Marketing	9-10-11-12	½	
Yearbook	10-11-12	1	
Introduction to Computer Programming	10-11-12	½	

*\*\*Please Note - Not every course will be offered every year in the Business department. In order to maintain all courses in the course catalogue with the current staffing levels, some courses will be offered in alternating years. See the table below for the list of courses and years available for planning purposes.*

<b>Course</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>	<b>2023-2024</b>
Personal Keyboarding	X		X	
Everything Google and Office		X		X
Accounting I	X	X	X	X
Scholarship Accounting II	X	X	X	X
Entrepreneurship		X		X
Business 101	X	X	X	X
Personal Finance	X	X	X	X
Business and Personal Law	X		X	
International Business and Management	X		X	
Sports and Entertainment Marketing	X	X	X	X
Yearbook	X	X	X	X
Introduction to Computer Programming	X	X	X	X

## **Course Descriptions**

### **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.

**Semester / ½ credit**

**Fee - \$7**

**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. Google Slides and 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 - \$10**

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

### **Accounting I**

Accounting I is recommended for students planning to major in any type of business in college. Students develop an understanding of basic accounting concepts and principles by covering the accounting cycle for a service business operating as a proprietorship. Skills learned include the rules of debit and credit, analyzing and journalizing transactions, posting to the general ledger, worksheets, preparation of financial statements, and banking and credit practices. Microsoft Excel and Google sheets will be utilized for projects and simulations.

**Semester / ½ credit**

**Fee - \$35**

**Grades 10-11-12**

### **Scholarship Accounting II**

Accounting II establishes a better foundation for understanding business and provides further knowledge needed for a career in Accounting or other business related fields. Students will develop an understanding of advanced accounting concepts and principles by covering the accounting cycle for a merchandising business organized as a corporation. Skills learned include using multiple journals, specialized accounting functions such as payroll, dividends and taxes, and reporting financial information in accordance with Generally Accepted Accounting Principles (GAAP). Microsoft Excel and Google Sheets will be utilized for projects and simulations.

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

**Semester/ ½ credit**

**Fee - No**

**Grades 10-11-12**

**Prerequisite: Accounting I with 75% or better**

### **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 - \$10**

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

### **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 web page, a mission and a vision, attracting investors, and marketing a company.

**Semester / ½ credit**

**Fee – No**

**Grades 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 basics 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.

*\*This class meets the financial literacy graduation requirement for the class of 2024 and beyond.*

**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 law, 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 will provide students with an understanding of how and why businesses choose to expand their operations into a global market. Students will be exposed to the unique challenges facing firms doing business internationally and to the potential opportunities and markets that are lost to firms that choose not to do business in the global marketplace. International Business will broaden the students' understanding of how businesses operate and how they grow and thrive in our ever-changing world. Topics may include but are not

limited to the global economy, cultural influences on business, political/legal environments, international human resource management, and more.

**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 12-18 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.**

### **Introduction to Computer Programming**

Computer programming fuels technological innovation and drives career growth, but waiting until college to learn the basics could mean a missed opportunity. This course teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. This course requires no programming background.

**Semester/ ½ credit**

**Fee - \$25**

**Grades 10-11-12**

# ENGLISH

COURSES	GRADE	CREDIT	PREREQUISITES
English 9	9	1	
Scholarship English 9	9	1	
Honors English 9	9	1	
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	1	Journalism I; application
Public Communication in	10-11-12	½	

## Media I

Advanced Public Communication In Media	10-11-12	½	Public Communication in Media I
Film as Literature	10-11-12	½	

## Course Descriptions

### **English 9**

In this course, students will focus on strengthening fundamental skills in reading, writing, listening, viewing, and speaking. Students will explore and analyze a variety of themes using multiple genres: short stories, myths and legends, poetry, nonfiction, drama, and novels. Research techniques, grammar, 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 - \$4.50**

**Grade 9**

### **Scholarship English 9**

At the scholarship level, coursework is more rigorous and moves at a faster pace. In this course, students will further develop skills in reading, writing, listening, viewing, and speaking. 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 including single and multi-paragraph development in composition. Research techniques, grammar, 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.

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

**Year / 1 credit**

**Fee - \$4.50**

**Grade 9**

### **Honors English 9**

This course is the first in a series of four courses to prepare students for the Advanced Placement courses. It is designed for students who have demonstrated superior ability and accomplishment in language skills and who qualify for a rigorous academic curriculum. 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. Advanced reading and writing skills will be emphasized with a concentration on multi-paragraph compositions. Research techniques, grammar, and vocabulary study will 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. A summer reading project is required and must be turned in on the first day of school.

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

**Year / 1 credit**

**Fee - \$4.50**

**Grade 9**

### **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 - \$4.50**

**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 - \$4.50**

**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. A summer reading project is required and must be turned in on the first day of school.

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

**Year / 1 credit**

**Fee - \$4.50**

**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 – \$4.50**

**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 emphasized 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 – \$4.50**

**Grade 11**

**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. 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 – \$4.50**

**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. A summer reading project is required and must be turned in on the first day of school.

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

**Year / 1 credit**

**Fee – \$4.50**

**Grade 12**

## **ADVANCED PLACEMENT**

### **Junior and Senior Advanced 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 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. A summer reading project is required and must be turned in on the first day of school.

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

**Year / 1 credit**

**Fee – \$4.50**

**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 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 – \$4.50**

**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 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 credit**

**Fee – No**

**Grades 10-11-12**

### **Acting**

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

improvisational theatrical movement, and character 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 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 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 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.

**Semester / ½ credit**

**Fee – No**

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

### **Journalism II**

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

**Year / 1 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 sampling the visual artistry of the media.

**Semester / ½ credit**

**Fee – No**

**Grades 10-11-12**

**Advanced 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 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 credit**

**Fee – No**

**Grades 10-11-12**

## WORLD LANGUAGE

The study of world languages presents students with the opportunity to learn their chosen language through a combination of reading, writing, listening, and speaking. Students learn and reinforce their language skills by actively participating in cultural and role-playing activities. Students will use authentic materials and reenact typical situations in the target language. Tapes, CD's, videos, workbooks, and supplemental texts are used in the classes to create an enjoyable and effective learning environment.

- A student must have a "C" average with teacher recommendation to continue to the next level\*.
- Students are required to purchase supplemental course materials for some courses.
- Online resources/activities are available for all levels of French, German, and Spanish.

**Please Note: Level IV and AP courses may be combined based on enrollment. Different curriculum will be covered each year, centered on the themes and contexts established by the AP College Board.**

COURSES	GRADE	CREDIT	PREREQUISITES
French I	9-10-11-12	1	
French II	10-11-12	1	French I - C or Better*
Scholarship French III Better*	10-11-12	1	French II - C or Better*
Honors French IV	11-12	1	French III - C or Better*
AP French V	12	1	French IV - C or Better*
German I	9-10-11-12	1	
German II	10-11-12	1	German I - C or Better*
Scholarship German III	10-11-12	1	German II - C or Better*
Honors German IV	11-12	1	German III - C or Better*
AP German V	12	1	German IV - C or Better*
Spanish I	9-10-11-12	1	
Spanish II	9-10-11-12	1	Spanish I - C or Better*





# INDUSTRIAL TECHNOLOGY

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

<b>COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>	<b>PREREQUISITES</b>
Engineering Drafting	10-11-12	1	
Electricity	10-11-12	½	
Woodworking I	10-11-12	½	
Woodworking II	10-11-12	½	Woodworking I

## Course Descriptions

### **Engineering Drafting**

This drafting course will introduce students to different areas in drafting and design used in the engineering field. This course will be a combination of traditional mechanical drawing techniques and current computer-aided design applications using the AutoCAD program. Areas explored include mechanical, engineering, and architectural drawings. Course content will stress graphic visualization and will develop the student's technical imagination helpful for any student going into the engineering field.

**Year/1 Credit**

**Fee - \$25**

**Grades 10-11-12**

### **Electricity**

This course will introduce the student to basic concepts, theories, components, and applications of electricity and electronics. This process will be accomplished through the use of lectures, quizzes, laboratory, hands-on projects, and tests. Students will be responsible for the cost of extra material needed for the class project not covered in the lab fee.

**Semester/ ½ Credit**

**Fee - \$25**

**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 Mantel Clock project as a vehicle for learning. Students must pass safety tests in order to use the equipment

and are required to complete the class project. Students will be responsible for the cost of wood or extra material needed for the class project not covered in the lab fee.

**Semester / ½ credit**

**Fee - \$25**

**Grades 10-11-12**

### **Woodworking II**

This course is a continuation of the Woodworking I class. Students will increase their skills in the use of woodworking, hand tools, and equipment, using a student-selected project as a vehicle for learning. Students must pass safety tests and the number of projects required to complete will be based on the project level. Students will be responsible for the cost of wood and extra material needed for student project not covered in the lab fee.

**Semester / ½ credit**

**Fee - \$25**

**Grades 10-11-12**

**Prerequisite: Woodworking I**

# MATHEMATICS

<b>COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>	<b>PREREQUISITES</b>
Algebra I	9-10	1	
Geometry	9-10	1	Algebra I or Algebra IB
Scholarship Geometry	9-10	1	80% Assessment Avg Alg I Teacher Recommendation
Honors Geometry	9	1	88% Assessment Avg Alg I Teacher Recommendation
Algebra II	10-11-12	1	Geometry
Scholarship Algebra II	10-11	1	Scholarship Geometry
Honors Algebra II	9-10	1	Honors Geometry Teacher Recommendation - *9th grade only
Precalculus	11-12	1	B or better in Algebra II
Scholarship Precalculus	11-12	1	Scholarship Algebra II
Honors Precalculus	11	1	Honors Algebra II
Scholarship Calculus	12	1	Scholarship Precalculus
AP Calculus AB	12	1	Honors Precalculus
AP Calculus BC	12	1	Honors Precalculus
AP Statistics	11-12	1	Precalculus OR Scholarship/Honors Alg AND enrolled in Precalculus
Introductory Statistics	11-12	½	Algebra II
Discrete Math	11-12	½	Algebra II

Transition to College Algebra	11-12	½	Algebra II
Math Applications	11-12	½	Algebra II

## Course Descriptions

### **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, exponential functions, simplifying radicals, operating with polynomials, and factoring polynomials.

**Year / 1 credit**

**Fee - No**

**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**

**Fee - \$2.50**

**Grades 9-10-11**

**Prerequisite: Algebra I or Algebra IB**

### **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.

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

**Year / 1 credit**

**Fee - \$2.50**

**Grades 9-10**

**Prerequisite: Greater than 80% assessment average in Algebra I and teacher recommendation**

### **Honors Geometry**

This course will consist of the study of elements of geometry, segments, angles, perpendicular lines, congruent triangles, similar polygons, right triangles, circles, areas, volumes, coordinate geometry, and probability. The first semester will emphasize writing proofs while the second semester will emphasize computation process. A scientific calculator is recommended for this course. A safety compass will be provided.

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

**Year/1 credit**

**Fee- \$2.50**

**Grade 9**

### **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**

**Fee - No**

**Grades 10-11-12**

**Prerequisite: 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**

**Fee - No**

**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**

**Fee - No**

**Grade 9-10**

**Prerequisite: Honors Geometry and Teacher Recommendation (9th grade only)**

### **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**

**Fee - No**

**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, logarithms, sequences, series, binomial expansions, 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**

**Fee - No**

**Grades 11-12**

**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**

**Fee - No**

**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**

**Fee - No**

**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**

**Fee - No**

**Grade 12**

**Prerequisite: Honors Precalculus**

### **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**

**Fee - No**

**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 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**

**Fee - No**

**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**

**Fee - No**

**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**

**Fee - No**

**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**

**Fee - No**

**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**

**Fee - No**

**Grades 11-12**

**Prerequisite: Algebra II**

# MUSIC

COURSES	GRADE	CREDIT	PREREQUISITES
Treble Choir	9-12	1	Audition/Permission
Concert Choir	9-10-11-12	1	Audition/Permission
Beavercreek Chorale*	9-12	1	Audition/Permission
Scholarship Women's Choir*	10-11-12	1	Audition/Permission
Varsity Band	9-10-11-12	1	Audition/Permission
Concert Band	9-10-11-12	1	Audition/Permission
Scholarship Symphonic Band	9-10-11-12	1	Audition/Permission
Scholarship Wind Symphony	9-10-11-12	1	Audition/Permission
Music Theory I	9-10-11-12	½	Consultation/Music Experience
AP Music Theory	9-10-11-12	½	Music Theory I OR Placement Exam

## Course Descriptions

### 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> - 12<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**

**Fee - TBD/BMPA**

**Grades 9-12**

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

### **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**

**Fee - TBD/BMPA**

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

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

### **Beavercreek Chorale (with Scholarship/Honors Option)**

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.

**Students have the option to complete additional course work to receive a 4.5 or 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - TBD/BMPA**

**Grades 11-12**

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

### **Scholarship Women's Choir (with Honors Option)**

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.

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

**Students have the option to complete additional course work to receive a 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - TBD/BMPA**

**Grades 10-11-12**

**Prerequisite: Director permission and placement audition is needed for entry into this ensemble, 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 may also participate in O.M.E.A. events. Students are graded on their daily class work, playing tests, and skills assessments. Students may earn additional points for involvement in outside musical activities, such as other ensembles or private lessons.

**Year / 1 credit**

**Fee - TBD/BMPA**

**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 of

band literature from rock to classical, this ensemble performs in a series of concerts throughout the year. This ensemble may also participate in O.M.E.A. events. Students are graded on their daily class work, playing tests, and skills assessments. Students may earn additional points for involvement in outside musical activities, such as other ensembles or private lessons.

**Year / 1 credit**

**Fee - TBD/BMPA**

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

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

### **Scholarship Symphonic Band (with Honors Option)**

Symphonic Band is a select band that offers the advanced 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 has mandatory participation in O.M.E.A. and MFA events, including but not limited to: District Band Adjudicated Event, Solo and Ensemble, and Regional Concert Band Festivals. Students are graded on their daily class work, playing tests, and skills assessments. Students may earn honors credit for this course through a combination of music services hours, private lessons, or student mentoring.

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

**Students have the option to complete additional course work to receive a 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - TBD/BMPA**

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

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

### **Scholarship Wind Symphony (with Honors Option)**

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 has mandatory participation in O.M.E.A. and MFA events, including but not limited to: District Band Adjudicated Event, Solo and Ensemble, and Regional Concert Band Festivals. Students are graded on their daily class work, playing tests, and skills assessments. Students may earn honors credit for this course through a combination of music services hours, private lessons, or student mentoring.

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

**Students have the option to complete additional course work to receive a 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - TBD/BMPA**

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

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

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

### **Music Theory I**

Music Theory 1 meets daily during the first semester. This course introduces the basics of music theory and provides a basis for students who wish to take AP Music Theory. The course requires students to be evaluated each week in the following areas: knowledge of music theory concepts, written work, ear-training, and sight-singing. Students do not have to be enrolled in band or choir in order to take Music Theory 1 but should have experience with music.

**Semester / ½ credit**

**Fee - No**

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

**Prerequisite: Director consultation/recommendation and previous musical experience**

**AP Music Theory**

AP Music Theory meets daily during the second semester. This rigorous course expands upon the skills learned in the Music Theory 1 Course and prepares students to take the AP Music Theory exam. The course requires students to be evaluated each week in the following areas: Knowledge of music theory concepts, written work, ear-training, and sight-singing.

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

**Semester / ½ credit**

**Fee - No**

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

**Prerequisite: Music Theory 1 or Placement Exam**

# HEALTH AND PHYSICAL EDUCATION

Each course in the Physical Education department are one semester. Students must take Health, Physical Education, and one additional semester of a physical education course to meet graduation requirements, unless completing the PE Waiver.

## 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, cheerleading, or show choir 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.*

<b>COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>	<b>PREREQUISITES</b>
Health	9-10-11-12	½	
Freshman Physical Education	9	¼	
<b>Level II Physical Education Courses</b>			
Team Sports	10-11-12	¼	
Lifetime/Recreation Activities	10-11-12	¼	
Weight Training I	10-11-12	¼	
Weight Training II	10-11-12	¼	Weight Training I
<b>Level III Physical Education Courses</b>			
Sports Medicine	9-12	½	

## Course Descriptions

### 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**

**Fee - None**

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

### Freshman Physical Education

Students will learn skills, rules, strategies and sport etiquette in a variety of individual and team sports. 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, muscular 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. Written assignments and evaluations may be given.

**Semester/ ¼ credit**

**Fee - \$5**

**Grade 9**

## LEVEL II

### Team Sports

Students will actively participate in a competitive environment in a variety of team/individual sports (such as doubles table tennis, bowling ultimate frisbee, 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 participate in a variety of lifetime and recreational activities (such as volleyball, volley tennis, badminton, frisbee golf, 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 I**

Weight training I is a weight lifting course designed to provide students with an opportunity to learn and experience basic fundamental weight lifting concepts and practices. Students will participate in an introductory conditioning program that is designed to improve muscular strength and endurance with an emphasis on fundamental lifting concepts, spotting, safety, and proper technique. Recreational activities will be included in this program to aid muscle repair.

**Semester / ¼ credit**

**Fee - \$25**

**Grades 10-11-12**

### **Weight Training II**

Weight training II is a high intensity weight training course designed to meet the needs of motivated individuals that already have a fundamental knowledge of all concepts covered in Weight Training I. Students will participate in advanced conditioning programs that will focus on muscular strength and endurance, intensity, safety, and proper technique. Recreational activities will be included in this program to aid muscle repair.

**Semester / ¼ credit**

**Fee - \$25**

**Grades 10-11-12**

**Prerequisite: Weight Training I**

## **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.

**This course does not fulfill the health or physical education requirement and is considered an elective course for graduation requirements.**

**Semester / ½ credit**

**Fee - \$30**

**Grades 9-12**

## 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.**

COURSES	GRADE	CREDIT	PREREQUISITES
Physical Science	9	1	
Scholarship Physical Science	9	1	See course description
Biology	10	1	
Scholarship Biology	9-10	1	9th - formal acceleration 10th - B in Sch Phys Science
Advanced Placement Biology	11-12	1	Sch Bio/Chem, Hon Chem Teacher Recommendation
Chemistry	11-12	1	Biology and Geometry Teacher Recommendation
Scholarship Chemistry	11-12	1	Sch Bio/Geom or Teacher Recommendation
Honors Chemistry	11-12	1	Sch Bio/Hon Geom or Teacher Recommendation
Advanced Placement Chemistry	11-12	1	Hon Chem or B in Sch Chem
Physics	11-12	1	C in Alg II and Teacher Recommendation
Scholarship Physics	11-12	1	B in Alg II and Teacher Recommendation
Honors Physics	11-12	1	B in Alg II and Teacher

			Recommendation
Advanced Placement Physics	11-12	1	Sch/Hon Physics AP Calc BC (or concurrent)
Astronomy	10-11-12	½	Biology
Forensic Science	10-11-12	½	Biology
Field Biology	10-11-12	½	Biology
Marine Sciences	10-11-12	½	Biology
Environmental Science	10-11-12		Biology
Human Anatomy and Physiology	11-12	1	C in Biology; suggest Chem

## Course Descriptions

### Physical Science

Physical Science is the foundational science class from which other high school science classes build. This Physical Science explores introductory chemistry and physics in preparation for future state testing and for future high school science courses such as Biology, Chemistry and Physics. Topics of discussion include atomic structure, chemical reactions, states of matter, energy, motion, electricity, star formation, and the development of lab skills.

**Year / 1 credit**

**Fee - \$12**

**Grade 9**

### Scholarship Physical Science

Physical Science is the foundational science class from which other high school science classes build. Scholarship Physical Science explores introductory chemistry and physics in preparation for future state testing and for future high school science courses such as Biology, Chemistry and Physics. Topics of discussion include atomic structure, chemical reactions, states of matter, energy, motion, electricity, star formation, and the development of lab skills. Higher order math skills and motivation to work independently are a necessity. This course involves analysis, problem solving, and advanced concepts. Long term projects and extensive lab work can be expected.

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

**Year / 1 credit**

**Fee - Yes**

**Grade 9**

**Prerequisite: Students must earn an 'A' in 8<sup>th</sup> grade science AND 85% or higher in Honors Algebra I, Scholarship Algebra I, or Honors Geometry OR an 'A' in Math 8;  
Recommendations from Math & Science teachers**

### 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 - \$22**

**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 / 1 credit**

**Fee - \$22**

**Grade 9-10**

**Prerequisites: "B" in Scholarship Physical Science; 9th grade students must complete the formal acceleration process in the Spring of 2020.**

### **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, 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 - \$22**

**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 - \$26**

**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 corequisite 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 - \$26**

**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.

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

**Year / 1 credit**

**Fee - \$26**

**Grades 11-12**

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

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

### **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 on 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 - \$26**

**Grades 11-12**

**Prerequisite: "B" average in Honors Chemistry or a B 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 strong 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 Honors 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.**

**Year / 1 credit**

**Fee - \$25**

**Grades 11-12**

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

**A co-requisite of Honors Pre-Calculus or higher is suggested but not required.**

### **Advanced Placement Physics: Mechanics**

Advanced Placement Physics is a calculus-based first-year college level physics course. This course is designed to prepare the student for the AP Physics Exam in Mechanics. As time permits, electricity and magnetism concepts will be introduced. Laboratory work and VPython computer programming are essential parts of this course. Students are expected to take the AP Physics Mechanics Exam in May. Although some class time will be used for assignment completion, students should expect to average an hour of work at home daily.

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

**Year / 1 credit**

**Fee - \$25**

**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 - \$8**

**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 - \$3**

**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 - \$35**

**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 nonliving 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 - \$22**

**Grades 11-12**

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

## **SOCIAL STUDIES**

<b>COURSES</b>	<b>GRADE</b>	<b>CREDIT</b>	<b>PREREQUISITES</b>
World History	9	1	
Honors World History	9	1	
History of American Sports	9	½	
The American Civil War	9	½	
World Leaders and Legends	9	½	
Current Events	9-10-11-12	½	
Design Thinking 101	9-10-11-12	½	
Design Thinking 201	9-10-11-12	½	
Scholarship Design Thinking 301	10-11-12	½	Design Thinking 101 or 201
Scholarship Design Thinking 401	11-12	½	Sch Design Thinking 301
Modern US History	10	1	
AP US History	10	1	Honors World History
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 and Society	11-12	½	
Government and Politics	11	1	
AP Government	11-12	1	
AP World History	11-12	1	B avg in Sch English AND B avg in Hon/AP US History
AP European History	11-12	1	B avg in Sch English AND B avg in Hon/AP US History
AP Psychology	11-12	1	

## Course Descriptions

### World History

This course will cover the years of 1700–1980, focusing on the world events of the time period. Events include the Enlightenment, the American, French, Russian and Industrial Revolutions; World Wars, as well as the economic, social and political impacts of those wars. Emphasis is placed on historical themes, cultural influences, and geographical and economic concepts and relationships.

**Year / 1 credit**

**Fee - No**

**Grade 9**

### Honors World History

This advanced survey course in world history will focus on significant world events, people and places from 1600 to the present. This class is designed to introduce students to significant historical ideas and events that have helped shape the world today. The students will study political, economic, geographic, religious and cultural events throughout the world, including Africa, Asia, Europe, Middle East and the Americas. Students will be expected to work both independently and cooperatively with peers to comprehend, analyze, and present their thoughts on the many topics through discussion, writings, and projects. This class requires more reading, writing, and independent learning than the Modern World History class. Significant learning experiences different from the college-prep World History course include web quests, project portfolios, and pre-Advanced Placement assignments (readings and document-based questions).

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

**Year / 1 credit**

**Fee - No**

**Grade 9**

### History of American Sports

This semester long survey class will explore the origins and history of America's most popular sports. Students will explore the evolution of sports and examine their role in American culture. Students will learn about the men and women, and iconic teams that left their mark on America.

**Semester / ½ credit**

**Fee - No**

**Grade 9**

### **The American Civil War**

This semester course will take a look at arguably the most pivotal era in American History, the U.S. Civil War. From Dred Scott and Robert E. Lee to Abraham Lincoln and John Wilkes Booth, this course examines the critical struggle between states, rights and a strong Federal government; an agricultural society versus industrial, and ultimately slavery versus freedom. In this course we will not only look at the critical battles such as Gettysburg and Antietam, we will examine the causes of the war, the role women and African-Americans played, as well as the immediate aftermath of the war. Not only will the course feature lecture and discussion, it will include projects, simulations, and films such as Gettysburg. Lastly, the course will examine Civil War issues that still resonate today such as the confederate flag. The hope is for the student interested in the Civil War to leave with a greater appreciation for what our nation went through during this conflict.

**Semester / ½ credit**

**Fee - No**

**Grade 9**

### **World Leaders and Legends**

This project based class will explore the iconic American figures of the 19th, 20th and 21st centuries. Students will be able to choose different iconic leaders and legends from several different themes that they will research and develop multimedia projects pertaining to their impact on world history.

**Semester / ½ credit**

**Fee - No**

**Grade 9**

### **Current Events**

This semester long survey class 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**

**Fee - 21**

**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 and discover and solve problems in our school. Students will learn the Design Thinking process, identify problems, develop empathy for users, and then test out solutions through prototyping. Design Thinking is a process used by a range of professionals from engineers and software developers to entrepreneurs and fashion designers. 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**

**Fee - \$15**

**Grades**

**9-10-11-12**

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

In this course, students will learn and apply a collaborative, hands-on approach to solving problems known as Design Thinking to identify problems and create positive social and environmental impact in our community. Design Thinking is a process used by a range of professionals from engineers and software developers to entrepreneurs and fashion designers. In this course, 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 end-of-course 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**

**Fee - \$15**

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

**Scholarship 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.

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

**Semester / ½ credit**

**Fee - \$15**

**Grades 10-11-12**

**Prerequisite: Design 101 or Design 201**

**Scholarship 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.

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

**Semester – ½ credit**

**Fee - \$15**

**Grades 11-12**

**Prerequisite: Design Thinking 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**

**Fee - No**

**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 - \$20**

**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**

**Fee - No**

**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**

**Fee - No**

**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**

**Fee - No**

**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**

**Fee - No**

**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**

**Fee - No**

**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/project 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**

**Fee - No**

**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 - \$11**

**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**

**Fee - No**

**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 states assessments.

**Semester / ½ credit**

**Fee - No**

**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**

**Fee - No**

**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 - \$20**

**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 - \$20**

**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; 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 - \$20**

**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, transferable 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).

COURSES	GRADE	CREDIT	PREREQUISITES
Introduction to Engineering Design - PLTW	9	1	
Applied Engineering Principles - PLTW	10-11-12	1	Geometry or concurrent enrollment
Scholarship Aerospace Engineering - PLTW	11-12	1	Applied Eng. Principles
Scholarship Digital Electronics - PLTW	11-12	1	Applied Eng. Principles
Scholarship Computer Science Principles - PLTW	10-11-12	1	AEP or concurrent enrollment
Honors Engineering Design And Development Capstone - PLTW	12	1	IED OR AEP and completion or concurrent enrollment in AE, DE, and CSP; application and instructor approval

## 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**

**Fee - No**

**Grade 9**

**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**

**Fee - No**

**Grades 10-11-12**

**Prerequisite: Completion of Geometry or concurrently enrolled**

**Scholarship 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 other engineering fields. Where can aerospace engineering take us next?

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

**Year / 1 credit**

**Fee - No**

**Grades 11-12**

**Prerequisite – Applied Engineering Principles**

**Scholarship 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.

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

**In-state Career Tech Assurance Guide (CTAG) college credit may be available with passage of WEBXAM.**

**Year / 1 credit**

**Fee - No**

**Grades 11-12**

**Prerequisite: Applied Engineering Principles**

**Scholarship 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?

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

**Students may take the AP Computer Science exam while enrolled in this course.**

**Year / 1 credit**

**Fee - No**

**Grades 10-11-12**

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

**Honors 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. This course is primarily an independent study course with instructor and industry advisors.

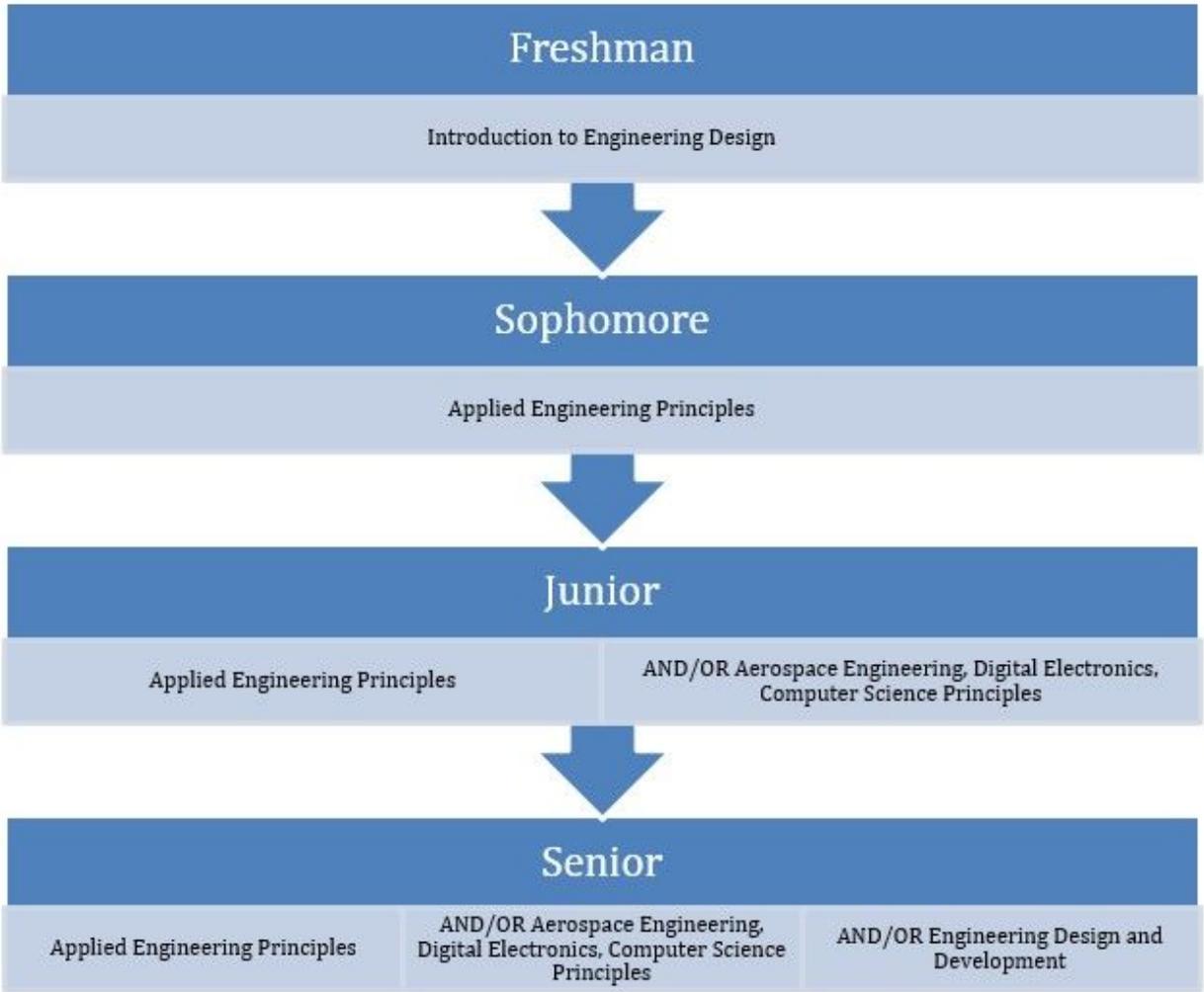
**This course receives weighted grading of 5.0 on a 4.0 scale.**

**Year / 1 credit**

**Fee - No**

**Grade 12**

**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 AND instructor approval through application process.**



## OTHER ELECTIVES

COURSES	GRADE	CREDIT	PREREQUISITES
AFJROTC - Aerospace Science I	9-10-11-12	1	See course description
AFJROTC - Aerospace Science III	10-11-12	1	See course description
Peer Listening	11-12	1	Application/Selection
Student Council	9-10-11-12	0	
Media Center/Information Center	10-11-12	0	Application/Selection

Office Aide	10-11-12	0	Attendance/Selection
Peer Helper	10-11-12	0	

## Course Descriptions

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

### **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) aspect 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 III**

NOTE: This is the follow-on course for existing AFJROTC I and II students. The course is made up of three closely related areas: the Aerospace Science portion of the course introduces students to the science of flight and focuses on how airplanes fly, how weather conditions affect flight, the human body, and navigation. The Leadership Education portion will teach students how to manage/invest money, handle real-life issues such as understanding personal bills, contracts, and warranties. The Wellness (fitness) aspect 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** be enrolled in an AFJROTC course and remain in good academic standing in order to participate.

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

### **Peer Listening**

Peer Listening trains students to use active listening as a tool in guiding other students through a problem. They receive intensive training in effective communication skills, crisis intervention, and referral in order to support their peers. Peer listeners also raise awareness about issues relevant to adolescents. They inform staff, students, and the community of these issues and work to build a positive school culture.

**Year / 1 credit**

**Fee - No**

**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**

**Fee - No**

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

### **Media Center/Information Center**



## Course Descriptions

### **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**

**Fee - No**

**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 Beaver Creek High School.* Students must be accepted into this program.

**Year / 5 credits**

**Fee - No**

**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 Beaver Creek High School graduates who complete this program. *This is a Greene County Career Center program housed at Beaver Creek High School.*

**Year / 5 credits**

**Fee - No**

**Grade 12**

## **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 Beaver Creek 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.

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 Greene County and Miami Valley Region.

Programs to be added:

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