

Canfield High School

100 Cardinal Drive, Canfield, OH 44406

330.533.5507

To Canfield High School Students:

This curriculum guide is designed to be read by both you and your parents. It contains a wealth of information to help you plan your program of studies during your time at Canfield High School. This guide will help you develop your Personal Progress Plan and help you make informed decisions about the classes you need to select in order to meet your future educational and career goals. Thoroughly study the course descriptions and the school counseling information so that you make the best curricular choices. Once some basic decisions have been made, you should contact your school counselor or Prime Time teacher for any additional information on college/career requirements.

Please be advised that the State of Ohio makes periodic changes that schools must follow. With this in mind information in this book may change. We will make the changes in the online version of this document in a timely fashion.

The most important part of the registration process starts with pre-registration. Pre-registration results help us determine the number of sections (pending faculty availability) we need to open. **Once you are scheduled into classes, changes are almost non-existent, so choose wisely.**

CHS operates under a 4x4 intensive block schedule; which is continually fine-tuned. Some eighth-graders have questioned just what a 4x4 block schedule is and what the rationale was for implementing this scheduling format. The 4x4 is a method of using the time to enhance student learning. If you, our future graduates, are to be successful in today's competitive, global economy, you must receive a significantly better education than was achieved by any other generation. To meet high standards and score well on high-stakes tests, Canfield students need the opportunity to take more classes, and Canfield teachers need more time to plan, collaborate, evaluate lessons, and interact with their peers, students, and parents.

With the 4x4 schedule, many classes have been expanded to 86 minutes. The 86-minute block provides our students with more in-depth practice to develop skills as well as learn concepts in a given content area. All Canfield students need to know how to find, apply and interpret information, think critically, and work as problem-solving team members. This type of learning is facilitated by an intensive schedule. We are committed to a Continuous Improvement Process, meaning that curriculum study, revision, and growth are long-term activities. Our basic goal is to help students become life-long learners prepared for future endeavors, while simultaneously offering our faculty the resources to best accomplish this goal.

Students will need to satisfy ODE requirements and acquire **24 credits to graduate**. Take time to become thoroughly familiar with the course offerings and general information offered to you in this guide.

Sincerely,

The Administration
Michael J. Moldovan
Rich Shields
Michael Cochran

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Canfield Local Schools Web page address

www.canfield.access-k12.org

DISTRICT MISSION STATEMENT

As a community we educate, motivate, and innovate for individual lifelong success.

CANFIELD HIGH SCHOOL MISSION STATEMENT

The Canfield High School community, staff, students and families are dedicated to creating a learning organization which promotes a positive environment conducive to high achievement, where quality teaching and learning experiences occur, thus, aiding all participants in becoming life-long learners prepared to successfully interact in the global society of the 21st century.

ALL AMERICAN CONFERENCE RULES

Be Courteous to all
Respect your opponent and its fans
Know rules: abide by and respect the officials' decisions
Win with character and lose with dignity
Display appreciation for good performance by either team
Exercise self-control and reflect positively upon yourself, team and school
Good sports are winners
Sportsmanship – Priority Number One
Kids first – Winning second
Cheer – don't boo

ASSURANCE RESOLUTION

In compliance with (1) Title VI of the Civil Rights Act of 1964, (2) Title IX of the Education Amendments of 1972, (3) Section 504 of the Rehabilitation Act of 1973, and (4) the OCR Vocational Educational Guidelines, we are notifying all students, parents, employees, and general public that the Canfield Local School district has adopted a non-discrimination policy on the basis of race, color, national origin, sex or handicap. Any complaint regarding this non-discrimination policy should be referred to the Director of Administrative Services, Canfield Local Schools, Canfield, Ohio.

Central Office	High School	Athletics	Special Services
Superintendent 330.533.3303	Main Office 330.533.5507 Attendance 330.533.2622	330.533.5341	330.533.6219

REQUIREMENTS FOR GRADUATION

(These are required in addition to state requirements)

English: 4 credits (1 per year)

- English OR Hon. English 9
- English OR Hon. English 10
- English 11 or any English CC+ or AP
- English 12, or any English CC+ or AP

Social Studies: 3 credits

- American History (9th)
- World Civilizations or AP World Civilization (10th) (includes financial literacy)
- AP Government or Government (.5 credit- 11th or 12th) plus any Social Studies elective

Math: 4 credits.

- Algebra 1 / Integrated Algebra 1
- Geometry / Integrated Geometry / Advanced Geometry
- Algebra 2 / Integrated Algebra 2 / Advanced Algebra 2
- Additional Math Credit

Science: 3 credits.* **NOTE-** If you choose Integrated Biology instead of Biology, you may ONLY take Environmental Sustainability for your third credit- you will not meet the prerequisite for Chemistry, Anatomy or Physics.

- Physical Science
- Biology OR Integrated Biology
- Any other science*

Financial Lit: Financial Literacy .5 credit required for class of 2026 and beyond

Phys. Educ. .5 credit

- 2 classes (.25 credit each), preferably completed by grade 10 OR P.E. Waiver (for band or sport participation). **See Page 55**

Health: .5 credit

- Health (taken in 9th or 10th grade)

Fine Art: 1 credit This credit may be completed in grades 7-12. Any choir, art or band class meets this requirement. Computer Graphics, Guitar, Arts Alive and Music Theory also count.

Electives: 8 credits (7.5 class of 2026 and beyond) **ANY** class not included above counts as an elective for a total of **24 credits**. Anything past the requirements in any area is an elective.

It is the student's responsibility to see that requirements for graduation are met. The high school staff will make every effort to keep up-to-date records and to keep students and parents informed about the status of progress toward completing coursework as required. However, it is the student's responsibility to be cognizant of meeting requirements for graduation and for his/her personal goals.

GRADUATION PATHWAY REQUIREMENTS: CLASS OF 2023 & BEYOND

Students in the class of 2023 & beyond are required to earn the 24 credits outlined in the previous section. Additionally, students must meet the following requirements regarding Ohio's State Tests and Graduation Seals:

Ohio's State Tests

Students in the class of [2023 & beyond](#) must earn a minimum competency score of 684 or higher on the Algebra I and English Language Arts II end-of-course state tests. Federal and State testing guidelines still require students to take any available state assessment in Geometry, American Government, American History and Biology. Scores on these end-of-course tests are used to determine qualifications for graduation seals, as outlined below. If a student is not able to demonstrate competency on one or both of these assessments, three additional pathways exist for meeting this requirement.

Graduation Seals

Students must qualify for at least two of [Ohio's Graduation Seals](#). Nine of these seals are defined by the state and three are locally defined. Students must earn at least one seal that is defined by the state.

HONORS

[Honors Diploma from the State of Ohio](#) (This appears as a state-awarded sticker on your diploma.)

An Honors Diploma may be earned by meeting 7 of the following 8 criteria:

1. 4 English credits
2. 4 Math credits
3. 4 Science credits (including 2 units of advanced science)
4. 4 Social Studies credits
5. 3 of the same Global Language or 2 each of two Global Languages
6. 1 Fine Art (music, art, computer graphics)
7. 3.50 GPA on a 4.0 scale
8. ACT of 27 or SAT of 1280

An Honors Diploma may be earned in **vocational** education by meeting 8 of the following 9 criteria:

1. 4 English credits
2. 4 Math credits
3. 4 Science credits (including physics and chemistry)
4. 4 Social Studies credits
5. 4 units in student's career-technical education curriculum
6. 4 units of Career-Technical
7. 3.50 GPA
8. Achieve proficiency benchmark in occupational area
9. ACT of 27 or SAT of 1280

Graduation Honors (these students will be awarded a cord to be worn at graduation)

A three tier cum laude system will be used to honor such students at graduation. Students must take a minimum of 4 honors classes to achieve this recognition. The highest level of recognition would require taking eight (8) honors classes. To qualify for honors, students must achieve an unweighted 3.9 GPA or higher and must take the number of honors classes listed below to achieve membership in the cum laude society. Honors courses include courses titled: Honors, Advanced, CCP or AP.

Graduation speakers: Any student with Cum Laude honors can apply to be a speaker. A committee will select the speakers.

Level	Required GPA (Unweighted)	Number of Honors Classes
Cum Laude	3.9 – 4.0	4
Magna Cum Laude	3.9 – 4.0	6
Summa Cum Laude	3.9 – 4.0	8

Canfield High School uses the following standard grading scale:

A – 90-100, B – 80-89, C – 70-79, D – 60-69, and F – 0-59

COLLEGE PLANNING

Planning for College

The Core Curriculum required for graduation meets all of the recommendations for college admission except that most colleges want students to take a minimum of two (2) credits of a global language in addition to the required Core Curriculum.

The Core Curriculum should be supplemented with electives based on ability and interest. It is important to begin to consider the requirements for colleges and universities as soon as a student is able to begin the decision-making process. **Admissions are becoming more competitive each year, thus students are encouraged to both maintain the most challenging curriculum they can and to keep their grades as high as possible.**

As college admissions get more competitive, the type of curriculum taken becomes another factor in admission decisions. Competitive public and private schools are looking for students who have taken a very strong academic curriculum, with a preference for advanced, honors and AP classes.

College Representatives and Visits

Between thirty and forty college representatives annually visit Canfield High School. Interested students **must sign up** in the School Counseling Office prior to meeting with these representatives. Students must have the permission of the teacher if a class is to be missed. Visiting a college campus is considered to be an excused absence but is still counted toward your absence total. Parental permission and notification should be given to the attendance office (330.533.5507).

Admission Testing

The PSAT assessment is offered annually in October to sophomores and juniors.

Prospective top qualifiers on the PSAT should take the PSAT in their Junior year to qualify for the National Merit Scholarship program.

Either the ACT or SAT I should be taken no later than in the fall of a student's senior year. Although most colleges in Ohio will accept results from *either* test, applicants to state universities most often take the ACT. Highly competitive private colleges might require the SAT I.

The SAT test is approximately 3 hours long due to an expanded writing section with a student-written essay. The test also includes higher-level math and additional critical reading passages.

The ACT offers a 30 minute writing test as an optional component to the ACT assessment. Although it is optional, some colleges require the writing section and **it is strongly recommended to take the writing section**. There is an additional fee for students who choose to take the writing test.

Test	Suggested Test Calendar
ACT*	Spring of Sophomore year or any time Junior year*
PSAT	All Sophomores and academically strong Juniors (given once a year in October)
SAT	Spring of Sophomore year or any time Junior year

*Students desiring to enroll in CC+ classes should take the ACT by February prior to class enrollment. All Juniors will take a state administered ACT in February/March. This test is free of charge and no online registration is needed, for this test only.

To check testing dates and register for either test, students may register online at www.ACT.org for the ACT and www.collegeboard.org for the SAT.

ALL TEST REGISTRATIONS MUST BE COMPLETED ONLINE.

Students will have the opportunity to send their scores to up to four colleges for no additional fee at the time they register for the test. It is in their best interests to take advantage of this opportunity. There is a fee for a late submission. **All ACT scores will need to be sent directly from ACT to every college to which you apply.**

**The Canfield High School Code Number (CEEB Code) for both the
ACT and SAT I is 360750**

SCHEDULING

Students will be given recommendations for determining which level of English, Math and Science to take. They also need to secure recommendations for any higher levels of other disciplines (i.e. Advanced Art, 3rd or 4th year of global language, all honors and advanced level courses). ***Once you have registered for classes and your parent has signed the registration contract, you will be required to remain in the classes you have selected.*** Be aware that spring scheduling does NOT necessarily represent the final schedule a student will receive in August. Class balancing, done over the summer, may change when a student takes a particular class. **No changes in teachers will be made! No classes will be dropped for early release or study hall!**

Please note advanced, AP, CC+ and honors classes will require more rigor and a greater time commitment from the student. Scheduling more than one or two per semester is only advised if students do not have jobs or many sport or club responsibilities.

Schedule Changes

Students and parents need to be aware that schedules can be changed **ONLY** for the following reasons:

1. Administrative discretion
2. Missing prerequisite class or grade
3. Failed class
4. Erroneously scheduled into a class previously passed
5. Gap in schedule
6. For Honors, Advanced and AP classes **only**, students have one week to make a change. After that time they will receive a withdrawn fail and will go to study hall.
7. Anyone dropping a CC+ course must follow the timeline of their university and notify their CHS counselor.

Plan for NO Changes

Planning for course requests for next year is critical to our efforts to provide the courses and teachers to meet student requests. Changes to these requests damage our ability to match courses with requests. We plan for no changes and hope you do also!

COLLEGE CREDIT OPPORTUNITIES

Advanced Placement Courses (AP)

Advanced Placement tests are offered by the College Board. They are internationally recognized for their rigor and the quality of work a student must produce. Most universities will award college credit to any student who earns at least a 3 on the test. Credit is determined by individual universities. It is highly recommended that students who have ambitions of attending competitive private or Ivy League

schools should take these courses. They may or may not be awarded college credit, but they will be competing with kids who do take these classes during the application process.

Students taking an AP course for the first time must set up an account with the College Board (<https://apstudents.collegeboard.org/>). Each student who wishes to take an AP test in the spring of 2022 must register through this same portal. Each teacher issues students a “join code” for access. Detailed instructions can be found on the College Board website at the following link: <https://apstudnets.collegeboard.org/join-your-class-online>.

Students enrolled in AP courses during the fall 2022 semester must register for exams through their College Board AP classroom account prior to October 1, 2022. Teachers will guide students through this process in class prior to that time. A fee for each AP test is \$95 (subject to change).

AP Fee Payment and Deadlines:

Friday, October 14, 2022 - \$40 deposit due for each test requested

If students have a class offered second semester, a letter will go out with a fee payment schedule in January of 2023.

Students who Receive Accommodations: January, 2023 (day to be determined) – apply for accommodations via College Board

All final payments are due by February 9, 2023 for any AP exams.

It is important that all families are aware of these looming changes, especially as students begin registering. We understand that these changes may cause concern for students, parents and teachers. Please keep in mind that these changes are being mandated by the College Board and were not decided by the school.

AP courses currently offered at CHS: (depending on interest & demand)

World History
American History
American Government
Physics
Chemistry
Biology
Calculus BC
English Language & Composition
English Literature & Composition
Studio Art: Drawing
Studio Art: 2-D Design
Music Theory
Computer Science

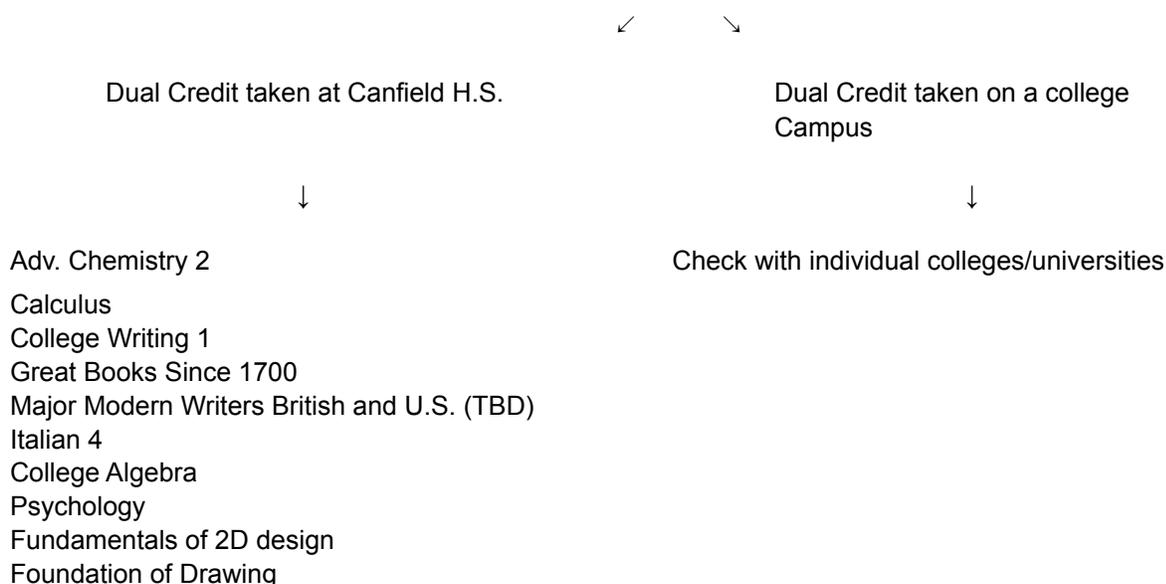
College Credit Plus (CCP or CC+)

College Credit Plus is another opportunity to earn college credits while still in high school. A meeting will be held and announced each year that invites all students and parents to attend for program information provided by various universities in the area. Students will not be charged tuition for these hours. Canfield High School will receive the bill for the student’s college tuition which will be paid from the Canfield Local Schools’ General Fund. Admission standards are defined by individual universities

and it is the student's responsibility to meet that criteria. Students interested in the program **MUST** notify the school counseling office by signing a note of intent (found in the school counseling office) by April 1st of the year prior to participation. Classes failed or withdrawn with an "F" will receive an "F" on the high school and college transcripts and will be computed into the high school and college GPA. Canfield Local Schools will follow the option to seek reimbursement for failed or withdrawn college credit courses, and may withhold grades and credits received for high school courses taken until reimbursement has been made. Students are eligible to take classes at CHS and/or a college campus at the same time. **More CC+ information can be found on the school counseling website under [College Credit Plus](#).**

COLLEGE CREDIT OPPORTUNITIES

College Credit Plus (CCP or CC+)



MONITORING STUDENT PERFORMANCE

Whom do I contact with classroom performance concerns?

Your child's teacher is the best source of current information. Questions about homework assignments can often be answered via the school website, where homework assignments are listed. Teachers' emails are found on the CHS website. To phone a teacher at the school call 330.533.5507, and follow the automated prompts. If you have concerns about general performance trends, a call to the school counselor would be helpful. See the Canfield Schools webpage for teacher contact information.

How can I stay abreast of my child's performance?

You may view your student's grades and homework information on **Progressbook**. At the beginning of the school year all students will be assigned both parent and student **Progressbook** usernames and passwords. For parents to access this information go to: **<https://parentaccess-k12.org>**.

Release of Personal Information

Please be advised that CHS gives out directory information (name and address only) to third parties such as Jostens, PTA, and the military recruiter. If you **do not** wish this information to be given you must give written notification of your desire to have your child excluded from the list.

ACTIVITIES (depending upon participation numbers)

Clubs

Academic Challenge/Quiz Bowl
Art Club
Canfield Players Drama Club
JETS (Junior Engineering Tech Society)/Robotics
YTeens/Young Leaders

Service Organizations

Interact Club (Rotary)
Key Club (Kiwanis)
Leos (Lions)
[National Honor Society \(click here\)](#)
Speech Team
Student Council

Co-Curricular Organizations (Includes class & extracurricular involvement)

Band (concerts, Marching Band)
Choir (concerts, Dinner Theater)
Journalism (online newspaper staff, school news program)
Yearbook Staff

ATHLETIC ELIGIBILITY

High School Eligibility Requirements:

Eligibility will be checked at each of the four grading periods. An athlete's status can be **eligible** (permitted to practice and participate in competition) or **ineligible** (permitted to practice but not allowed to participate in competition). Please be advised that an athlete's status can change during a season. Please contact the Athletic Department for any questions you may have.

Eligibility Requirements:

1. Must pass a minimum of five equivalent course credits. (Equivalent course credit = course credit multiplied by time factors. Time factor is 2 for semester courses and 4 for 9 week courses).
2. You must be passing three (3) full block classes or two (2) blocks plus a skinny.
3. Grades are posted every 9 weeks.

College Eligibility

It is the student's responsibility to inform their school counselor before their junior year if they are considering playing a Division I or Division II sport.

Contact the [CHS Athletic Office](#) 330.533.5341 for details on registering with the NCAA and or NAIA Eligibility Centers or for any other additional information.

Please take the time to familiarize **yourself** with the NCAA website and eligibility center if you have **any** aspirations of playing college sports.

Visit the www.eligibilitycenter.org

Interscholastic Athletics at CHS (depending upon participation numbers)

Baseball	Basketball	Bowling	Cheerleading
Cross Country	Football	Golf	Ice Hockey
Lacrosse	Soccer	Softball	Swimming
Tennis	Track	Volleyball	Wrestling

ART

Art is a basic exploratory course in the fundamentals of art/design with experiences in drawing, painting, lettering, sculpture, and crafts. Effort is made to plan so that each student understands the value of the experience and finds personal satisfaction from it. **Students who elect art courses will be required to purchase materials necessary to fulfill the requirements of the particular course along with a fee.**

The art courses are designed to contribute to the education of our students in several ways.

1. To provide experiences in basic art media and skills.
2. To develop an awareness of the art heritage from our own and other countries.
3. To provide the student with an understanding of the basic elements and principles of art which will allow them to be intelligently conversant about art.
4. To develop growth in the ability to communicate visually.

COURSES OFFERED IN ART

		FEE
Art I	1 credit	\$10.00
Art II	1 credit	10.00
Advanced Art	1 credit	15.00
Advanced Painting	.50 credit	20.00
Foundation Drawing (CC+)	1 credit	15.00
Fundamentals of 2D Design (CC+)	1 credit	15.00
3-Dimensional Design 1	.50 credit	15.00
3-Dimensional Design 2	.50 credit	15.00
AP Studio Art: Drawing	1 credit	15.00
AP Studio Art: 2D Design	1 credit	15.00
Scene & Prop Design	.50 credit	25.00
Animation and Film	.50 credit	15.00
Ceramics	.50 credit	15.00
Ceramics 2	.50 credit	15.00

***Fees are subject to change.**

****FEE: The AP exam fee is approximately \$95. A portfolio will need to be submitted in May as per College Board.**

Art I

1 credit

Prerequisite: none

Art 1 is an introductory level art course and is an elective. The course is designed so that every student, regardless of their prior experience or current ability level, can achieve a reasonable degree of skill and success. There is a heavy emphasis on the formal elements and principles of design. Students will also begin to develop their drawing and painting skills. Students taking the course should bring with them a sense of curiosity and a willingness to work. **Students will be required to keep an art sketchbook/notebook.**

Art II

1 credit

Prerequisite: Art I

Art 2 is an intermediate level art course and is an elective. In this course, drawing and design skills are enhanced. A variety of media and techniques are explored. There is a heavy emphasis on the use of color. We will begin to explore art as a means to communicate thoughts, themes and ideas. Students taking the course

should have a solid understanding of the elements and principles of design and should be proficient in their drawing and painting skills. **Students will be required to keep an art sketchbook\notebook.**

Advanced Art

1 credit

Prerequisite: Art I & 2

The advanced students should be highly motivated, self directed and very keen on visual art. In this course, we will expand our understanding of how to develop ideas, select materials, execute processes and develop techniques. This course will allow students the freedom to develop their personal style and explore themes that are relevant to their lives. Students will select the appropriate media and use appropriate techniques to execute their ideas\vision. Projects are intended to be worthy of being included in college admissions and or scholarship portfolios. **Students will be required to keep an art sketchbook\notebook.**

Advanced Painting

.50 credit

Prerequisite: Art I & 2

The advanced painting student should be highly motivated, self directed and very keen on visual art. In this course, students will explore various painting techniques including watercolor, acrylic and oils. In this course, students are encouraged to develop their personal style and explore themes that are relevant to their lives. Projects are intended, should the student choose, to be included in college admissions and or scholarship portfolios. **Students will be required to keep an art sketchbook\notebook.**

Foundation Drawing (CC+)

1 credit

Prerequisite: "A" in both Art 1 & 2

This course is an introduction of basic drawing concepts, materials and methods. There is an emphasis on observational drawing. Concepts include the effective use of line, volume, composition, space, and the formal principles of design. Students will engage in directed readings and studio problems. **Students will be required to keep an art sketchbook\notebook and purchase many of their own supplies for this class.**

Fundamentals of 2D Design (CC+)

1 credit

Prerequisite: "A" in both Art 1 & 2

The fundamental ideas and principles of 2-dimensional form are the emphasis on basic design concepts, pictorial composition, color theory, vocabulary, media and processes. Students will engage in lectures, directed readings and studio problems. **Students will be required to keep an art sketchbook\notebook and purchase many of their own supplies for this class.**

3-Dimensional Design 1

.50 credit

Prerequisite: none

This course is designed for the students who desire an introduction to sculpture, and working in three dimensional forms. Projects may include: crafts, figurative sculpture, 3D illustration, pewter casting. **Students will be required to keep an art sketchbook\notebook and purchase many of their own supplies for this class.**

3-Dimensional Design 2

.50 credit

Prerequisite: Art 1 and 3-D Design 1

This course is an in-depth exploration of formal design issues and conceptual problems in sculpture and three-dimensional design. Design problems may include: designing a work of public art, designing wearable sculpture, figurative sculpture, and architectural/set design. This course is intended to grow and connect with engineering graphics and computer graphics. **Students will be expected to do research, keep a sketchbook and purchase many of their own supplies for this class.**

Independent Study

1 credit

AP Studio Art: 2-D Design** (Grades 11, 12; spans both semesters)

Prerequisite: Advanced Art with a grade of A or B and teacher recommendation.

This course of study is approved by the College Board and designated as an Advanced Placement course. It is designed to explore 2D design concepts through the development of ideas, materials and process. The students will practice, experiment and revise their work.

The AP Art and Design portfolios consist of two sections: Sustained Investigations and Selected Works. The Sustained Investigation Consists of: 15 images that include works of art and design and process documentation AND typed responses to prompts, providing information about the questions that guided their investigation and how they practiced, experimented, and revised, guided by their questions. The Selected Works contain: 5 works with commentary identifying the materials, processes, and ideas used. Works may come from the Sustained Investigation section, but they do not have to.

The portfolio will be due for instructor review in April, amended if necessary, and finally submitted to the College Board for final scoring. Those receiving a 3-5 will be considered AP. A student must submit a portfolio to the College Board to receive credit for this course. A final grade will be awarded at the end of the second semester.

Independent Study

1 credit

AP Studio Art: Drawing** (Grades 11, 12; spans both semesters)

Prerequisite: Advanced Art, with a grade of A or B and teacher recommendation

This course of study is approved by the College Board and designated as an Advanced Placement course. It is designed to explore 2D design concepts through the development of ideas, materials and process. The students will practice, experiment and revise their work.

The AP Art and Design portfolios consist of two sections: Sustained Investigations and Selected Works. The Sustained Investigation Consists of: 15 images that include works of art and design and process documentation AND typed responses to prompts, providing information about the questions that guided their investigation and how they practiced, experimented, and revised, guided by their questions. The Selected Works contain: 5 works with commentary identifying the materials, processes, and ideas used. Works may come from the Sustained Investigation section, but they do not have to.

The portfolio will be due for instructor review in April, amended if necessary, and finally submitted to the College Board for final scoring. Those receiving a 3-5 will be considered AP. A student must submit a portfolio to the College Board to receive credit for this course. A final grade will be awarded at the end of the second semester.

Computer Graphics

FEE \$15.00

1 credit

This course offers students experience with basic computer skills such as file management, file compression and basic troubleshooting. Students will be exposed to a variety of the latest graphic software to complete multiple projects. The use of scanners, digital cameras and DVDs will also be implemented into computer generated imagery. Projects may include drawing, photo manipulation, morphing, sound digitizing and manipulation, video

manipulation, 3-D rendering, player files, basic animation and DVD authoring. This course will fulfill the fine arts requirement for unconditional admissions at any state university where it has been implemented.

Yearbook Publication

1 credit

Grades 10, 11, 12

Students will document the school year through photography and story copy. Students will learn how to scan and use desktop publishing software to produce camera-ready yearbook pages. Students should have basic computer knowledge. **This course requires after-school participation.**

Scene & Prop Design

FEE \$25.00

.50 credit

Prerequisite: Art 1

This course will focus on the techniques necessary to design scenery and build props for stage, film production, trade show applications and the Canfield Haunted Experience Walk through. Students will learn about the history of special effects, props and design through film and Youtube videos and by studying techniques used by Disney and Universal theme parks. Students will have hands-on experience building miniature to full size scale props, as well as, painting and finishing techniques for scenery. Students will use a variety of materials and tools to complete the various projects. Students will have the opportunity to build and design themed elements to be implemented in the Annual Art Department Haunted Experience Walk Through and the End of the Year Art Show.

Animation and Film

FEE \$15.00

.50 credit

Prerequisite: Computer Graphics

In this course students will learn to use the computer and digital cameras to create animations and short Films. Students will learn about the history of film and animation and use the techniques studied to create their own animations and films. Students will work on group projects that will challenge and expand their knowledge of film making and editing. The course will feature the following programs, Final Cut Pro, iMovie and Garage Band. Students will utilize green screens and digital cameras to complete various projects. Lighting techniques, sound effects and special effect techniques such as forced perspective will be demonstrated and implemented. Animations will cover traditional cell animations, stop motion animation and rotoscope animation.

Ceramics

FEE \$15.00

.50 credit

Prerequisite: Art I

This course is designed for the art student who desires an introduction to sculpture, and working in three-dimensional forms. Ceramics will be the major inspiration for the work produced in this class. Students will be required to do research on the internet to form ideas for the various projects they will produce. **Students will be required to keep an art notebook and purchase many of their own supplies for this class.**

Ceramics 2

FEE \$15.00

.50 credit

Prerequisite: Ceramics 1

This course is designed for students who are interested in exploring Ceramics on a higher level. Students will be assigned various projects in which they will be responsible for brainstorming, designing, planning and executing their work on a proficient level based on the Ohio Visual Art Standards. This course will build upon knowledge and skills gained in Ceramics 1. Students will continue to develop their skills in hand building. Projects will allow students to explore solutions to more complicated and challenging art forms. Students will demonstrate different construction and glazing techniques to achieve appearance and esthetic expressing their creativity. Students will continue to learn and research information about the history of ceramic and ceramic artists.

BUSINESS

The Business Education Department offers business courses and activities designed to meet the needs of all students and the specific needs of students who desire to prepare for employment in business.

COURSES OFFERED IN BUSINESS EDUCATION

FEE

Accounting	1 credit	\$ 25.00
Computer Productivity	.50 credit	
Introduction to Business	1 credit	
Cardinal Café 1 & 2	.50 credit	
Cardinal Café Credentialing	.50 credit	

***Fees are subject to change.**

Accounting

1 credit

Prerequisite: Must be a Junior or Senior

This course is an introduction to the basic principles and practices of accounting. It provides instruction in journals, ledgers, and business reports, plus the related information necessary to integrate this knowledge. A workbook which utilizes the entire accounting cycle is used. The students work on the computer throughout the course. This class is open to all students in grades eleven and twelve.

Computer Productivity

.50 credit

Grades: 9, 10, 11, 12

This course will begin as a review of keyboarding skills. It will then focus on document formatting, worksheet building, document linking, database creation, task streamlining, presentation graphics and integrated presentation using Microsoft Word, Excel, PowerPoint and Access.

Introduction to Business

1 credit

Grades: 9, 10, 11, 12

This course focuses on operating the Canfield Cardinal Spirit Wear business. Areas to be covered: company structure and the student's role within a company; company capitalization; customer product focus; product-market pricing; company operations; product sales, and company liquidation.

Students will also learn how to maximize their earning potential, develop strategies for managing their resources, explore skills for the wise use of credit, and gain knowledge of the different ways to invest money.

Cardinal Café

.50 credit

Prerequisite: Students must have transportation in order to operate the café each morning before school.

This is a student run and managed business focusing on menu creation, food preparation and food service, utilizing ServSafe guidelines. Students learn basic business operations and gain first-hand experience operating a small food service business.

The following key concepts are presented:

Company structure and the student's role within a company, company capitalization, customer product focus, product/market pricing, company operations, product sales and company liquidation.

Cardinal Café 2

.50 credit

Prerequisite: Cardinal Café 1, and a grade of A

This course is a continuation of Cardinal Café 1. Students will focus on administrative and food service management skills.

Cardinal Café Credentialing

.50 credit

This class will allow students to earn a hospitality credential which is an alternative pathway to graduation.

ENGLISH

The English curriculum is based on the principle that English is the most basic of all courses. The study of the basic communication skills of speaking, listening, reading, and writing lays the foundation and provides the means of learning all subjects. The English curriculum will stress the ability to effectively communicate with others via writing and/or speaking. These skills will ultimately enrich and enhance the students' relationships with the world around them. Since original thinking and insight are so valuable, any form of plagiarism will not be tolerated and will result in a zero on the assignment and the possibility of failure of the course.

COURSES OFFERED IN ENGLISH

FEE

English 9	1 credit	
*Honors English 9	1 credit	
English 10	1 credit	
*Honors English 10	1 credit	
English 11	1 credit	
English 12	1 credit	

CC+ AND AP ENGLISH COURSES

Major Modern Writers British and U.S. (CC+)	1 credit	
College Writing 1 (CC+)	1 credit	
Great Books of Since 1700 (CC+)	1 credit	
**AP English Literature & Composition	1 credit	
**AP English Language & Composition	1 credit	

OTHER ENGLISH ELECTIVES

Creative Writing (10, 11, 12)	.50 credit	
Fundamentals of Public Speaking (9-12)	.50 credit	
Impact of Literature in Athletics (9-12)	.50 credit	
Journalism/Mass Media I-IV (9-12)	.50 credit	
ACT (10, 11, 12)	.50 credit	\$30.00
Research in the Modern World	.50 credit	
Intro to Film Study	.50 credit	

Summer reading may be required for Honors English 9 and 10. Failure to submit required summer reading writing assignments and/or projects by the due date will result in a failing grade for those assignments.

Fees are subject to change.

***Additional independent reading may be required in each Honors course.**

****FEE: The AP exam fee is approximately \$95. The test will be given in May as per College Board.**

English 9 **1 credit**

Prerequisite: None

Students will complete narrative, expository, and argumentative writing. Documented research will be addressed. Literature and nonfiction texts in a variety of genres from a diverse set of sources will be read and analyzed. Language usage will be further developed through grammar review. Additionally, speaking and listening skills will be developed.

Honors English 9* **1 credit**

Prerequisite: A in 8th grade English Language Arts and Teacher recommendation

This is a more enriched and intensified version of the regular ninth grade course. The rigor and content is advanced and a strong interest in reading and writing is recommended.

English 10 **1 credit**

Prerequisite: English 9

This course continues development of the ideas and concepts introduced in English 9. Students will complete narrative, expository, argumentative, and documented research writing. Literature and nonfiction from various sources will be read and analyzed. Language will be refined through grammar review. Additionally, speaking and listening skills will be developed.

Honors English 10* **1 credit**

Prerequisite: A in Honors English 9 and teacher recommendation

This course follows the same requirements of English 10, but with rigor of texts, writing, and analysis.

English 11 **1 credit**

Prerequisite: English 10

A survey of literature will include major authors and concepts that will be read from an anthology and discussed. Other literature units will be included. Principles of grammar and usage, as needed by students, will be reviewed. Composition work will include several short, multiple-paragraph papers including research-based projects and papers. Vocabulary will be studied.

English 12 **1 credit**

Prerequisite: English 11

A survey of literature will cover major authors, time periods, and literary concepts from an anthology; additional nonfiction and fiction reading selections will also be required. The course includes a writing workshop to improve student writing skills. A review of grammar as needed and vocabulary study will be done. Composition assignments will include argumentative, informative, narrative, literary analysis, and research-based writings.

Great Books Since 1700 (CC+) **1 credit**

Prerequisite: A in previous English class – generally taken in grade 11 - 12

Great works of world literature read in English, from 1700 to today, covering a wide range of ethnic and national voices, genres and traditions.

College Writing 1 (CC+)

1 credit

Prerequisite: Teacher approval
Grades 11-12

This course is the study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading, research, and technology.

Major Modern Writers British and United States (CC+)

1 credit

Prerequisite: A in Honors English is suggested.
Grades 11-12

****Note – Do not think of “Modern” as Contemporary! Think of it as the Modernist Literary Movement – particularly the years following World War I – a time of disillusionment.**

Under the context of the Modernist Era of Literature, each of our primary modern and post-modern texts deals with identity, both of individuals and of communities. In addition, we'll look at short fiction and poetry with distinct modern and post-modern elements. Some writers discussed are Richard Wright, Virginia Woolf, Shirley Jackson, William Faulkner, Angela Carter, Roald Dahl, T.S. Eliot, Sylvia Plath. Collegiate writing skills and use of scholarly articles and MLA citation will be expected in three Literary Analysis Essays (5-7 pages) and two Short Response Papers (4-6 pages) as well as Reading Quizzes.

AP Language and Composition**

1 credit

Prerequisite: A in previous English class – generally taken in grade 11

The AP English Language and Composition course focuses on rhetorical analysis of nonfiction texts and the development and revision of well-reasoned, evidence-centered analytic and argumentative writing. Students choosing AP English Language and Composition should be interested in studying and writing various kinds of analytic or persuasive essays. This AP English Language and Composition course requires students to become skilled readers of prose written in a variety of rhetorical contexts and skilled writers who compose for a variety of purposes.

AP English Literature & Composition**

1 credit

Prerequisite: A in previous English class – generally taken in grade 12

The main focus of this course is literary analysis and the Advanced Placement Exam. While the Common core curriculum is also involved, the priority of the course is to prepare students for successful AP Exam scores. Classic and contemporary novels from diverse authors will be read, discussed and analyzed. Written analysis of the readings will be required. Other writings include a variety of analytical papers and AP style essays. There is a heavy emphasis on poetry, as that is half of the AP Exam. Research and college writing skills are integrated into these papers as well.

A combination of projects, tests and papers will be used to evaluate student performance. Class discussions are vital to success on the exam, and a student's interest and ability in thinking for his or herself is a key determining factor for success on the exam.

Students preparing to take the AP exam will need to spend extra study time, outside of school. **A pre-course assignment is required. ALL students electing to take AP Literature & Composition or AP Language and Composition should see the instructor before the end of second semester exams for the summer assignment.**

ADDITIONAL ENGLISH OFFERINGS

Creative Writing

.50 credit

Grades 10-12

The creative writing course is designed to challenge and engage students interested in literary creation, providing them with a substantial foundation for further exploration of their creative work. Transform your dreams, ideas, and stories into organized, compelling, creative written works! Experiment with diverse types of creative writing, including personal narrative, the short story, fantasy, and poetry, while learning how to polish and publish your original work in a writing workshop setting.

Fundamentals of Public Speaking

.50 credit

Grades 9-12

This course is the study of the strategies and skills for competent participation in interpersonal, group and public communication situations. Students will demonstrate the communication skills necessary to function in society and in future college and career situations. Research information and speech organization will also be covered. Students will present several minor and major speeches throughout the course.

Impact of Literature in Athletics

.50 credit

Grades 9-12

This course is designed for students who have a desire to explore literature through settings and themes that relate to sports. This course will focus on objectives through various strategies, including reading (novels, short stories, poetry, speeches and essays), writing (both creative and research based), and oral- presentations. The literature covered will consist of fiction and non-fiction, with a focus on factual readings.

Journalism and Mass Media - 1 & 2

.50 credit

Prerequisite: Teacher Approval

Students who participate in this class will develop professional skills essential for competence in electronic news writing, editing, and production for the web and broadcast. They will study issues in electronic news, learn interviewing, use electronic equipment and presentation tools, and combine their knowledge and skills to produce professional quality news websites and webcasts. Students will work in a variety of roles including reporter, editor, producer, and designer.

ACT Online Preparatory Class

Fee \$30.00

.50 credit

Grades 9-12

Students are given a seat license from the ACT Online Prep to work at skills to optimize their ACT score. This class provides you: a short-form ACT test to get started, a personalized learning path, tools to track your progress, daily goals to help you stay on target, flashcards customized for your review needs, a game center to further test your knowledge, a full-length practice test to simulate the actual exam, and a free mobile app.

Researching the Modern World

.50 credit

Grades 11-12

Students in Researching the Modern World will explore current, relevant topics, problems, and issues of individual and collective interest. Students will design, plan and conduct year-long research-based investigations to address research questions. Students will further their understanding of research methods and documentation styles; analyze, and synthesize information from multiple sources; develop their own perspectives; and deliver oral and visual presentations individually and as part of a team. The course will also engage students in cross-curricular conversations that explore academic and real-world topics and issues by analyzing divergent perspectives presented in a variety of texts and media

Intro to Film Study

.50 credit

Grades 9-12

The intent of this course is to provide students with the skills necessary to study film as text. Students will learn the essential elements of narrative filmmaking – shooting, editing, scoring, sound design, production design, storytelling, and character, as well as how to view a film through both analytical and critical lenses. Students will watch films, in class and outside of school, from a diverse range of American and international filmmakers. Viewings will be followed by discussions, as well as written and multimedia analyses and critiques.

FAMILY AND CONSUMER SCIENCE

Family and consumer Sciences is a set of courses that draws from a range of disciplines and contexts to achieve optimal and sustainable living for individuals, families, and communities.

COURSES OFFERED IN FAMILY AND CONSUMER SCIENCE

		Fees
Child Development	.50 credit	\$ 8.00
Culinary Fundamentals	.50 credit	\$20.00
Interior Design, Furnishings and Management	.50 credit	
Nutrition and Wellness	.50 credit	\$20.00
Baking and Pastry	.50 credit	\$20.00
Career and College Readiness	.50 credit	

Fees are subject to change.

Child Development

.50 credit

Students will study the principles of child growth from conception to early childhood. Focus will be placed on developmental stages including cognitive and motor skill development. Other concepts will include the basics of raising children, parenting styles, childhood illnesses and diseases, developmental theories, learning styles, and childcare services.

Culinary Fundamentals

.50 credit

Students will learn fundamental culinary techniques and apply the learned skills in cooking labs. An emphasis will

An emphasis will be placed on the science behind different cooking techniques, knife handling, mise en place, and ingredient usage. It is recommended that Nutrition and Wellness is taken prior to Culinary Fundamentals when possible.

Baking and Pastry

.50 credit

Students will learn fundamental baking and pastry techniques and apply the learned skill in cooking labs. An emphasis will be placed on the science behind different baking and decorating techniques, mise en place, and ingredient usage.

Interior Design, Furnishings and Management

.50 credit

Students will explore the basics of interior and exterior designs of housing including design and material selection, flooring and wall selection, different housing and design styles, and furnishings. Students will use the information learned to create floor plans and room designs.

Nutrition and Wellness

.50 credit

Students will learn about nutritional information to ensure a healthy lifestyle. Students will plan and prepare meals with the understanding of nutrients and their benefits, portion control, and specific dietary needs. Additional information will include the effects of diets, reading nutrition labels, tracking meals, and other nutritional influences on your life. Students will also cover the basics of kitchen safety and sanitation and cooking techniques.

Career and College Readiness

.50 credit

In this course, students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Students will research careers and occupations, review postsecondary admissions qualifications, develop interviewing and professionalism, conflict-resolution, leadership, budgeting, credit and debt, financial goals, and lifelong health and wellness.

GLOBAL LANGUAGE *Because of limited availability of seats, students are only permitted to take ONE Global Language

We offer four levels of German, Italian, and Spanish for one credit each. It is through the study of language that we learn about various peoples and cultures of our world. When language barriers are removed, communication and understanding are easier to achieve in our global society. The successful language student is self-motivated, verbal, flexible, and culturally aware of the world at large.

COURSES OFFERED IN GLOBAL LANGUAGE

German I, Italian I, Spanish I	1 credit
German II, Italian II, Spanish II	1 credit
German III, Italian III, Spanish III	1 credit
German IV, Italian IV, Spanish IV	1 credit

Level I

1 credit

Prerequisite: A or B in English

In level I, the student is introduced to listening, speaking, reading, and writing of the target language. Through the use of communicative and cooperative approaches, technology, and authentic materials, the students become familiar with not only the language, but also the culture, customs, and current events of the people.

Level II

1 credit

Prerequisite: Level I with B or (C with teacher recommendation)

In level two the emphasis is on reviewing and expanding the listening, speaking, reading, and writing skills of the student. Technology and authentic materials continue to increase awareness of the target language culture(s) and current events.

Level III

1 credit

Prerequisite: Level II with B or better

In level three the students will continue to review and expand listening, speaking, reading, and writing skills. New structures are introduced, but the foundations of grammar are reviewed. Technology and authentic materials continue to enhance cultural awareness and current events.

Level IV

1 credit

Prerequisite: Level III with B or better

In level four the focus is on upper level grammar structures, culture, music, history, literature, and conversation. The student will continue to review, expand, and improve proficiency in listening, reading, writing, and speaking. Some of the material is covered via reading, lectures, research, cooperative learning activities and/or projects, and technology. Most of the class work is done in the target language.

***Please note that Italian IV is a CC+ course through YSU.**

MATHEMATICS

1. INTEGRATED

This section of courses is intended for those students **NOT** planning to enroll in mathematics courses if and when they enter college. Concepts are introduced at an intuitive and more informal level. **Please note diagrams for Math and Science when making this choice because taking the integrated track will limit your choices.**

2. COLLEGE PREP

This section of courses is intended for those students planning to enroll in mathematics courses when they enter college.

3. ADVANCED MATHEMATICS

This section of courses is taught at an accelerated level and intended for those students planning to take high school Calculus and Advanced Placement Calculus.

The Accelerated Math Program

The accelerated math program in the Canfield School System begins with a full year of Algebra I in the eighth grade followed by Advanced Geometry, Advanced Algebra II, and Advanced Pre-Calculus/Trig by the end of the junior year. As a senior, the student will be encouraged to enroll in the Advanced Placement Calculus course with the intention of taking the Advanced Placement Calculus exam in May.

Calculators and Computers in the Classroom

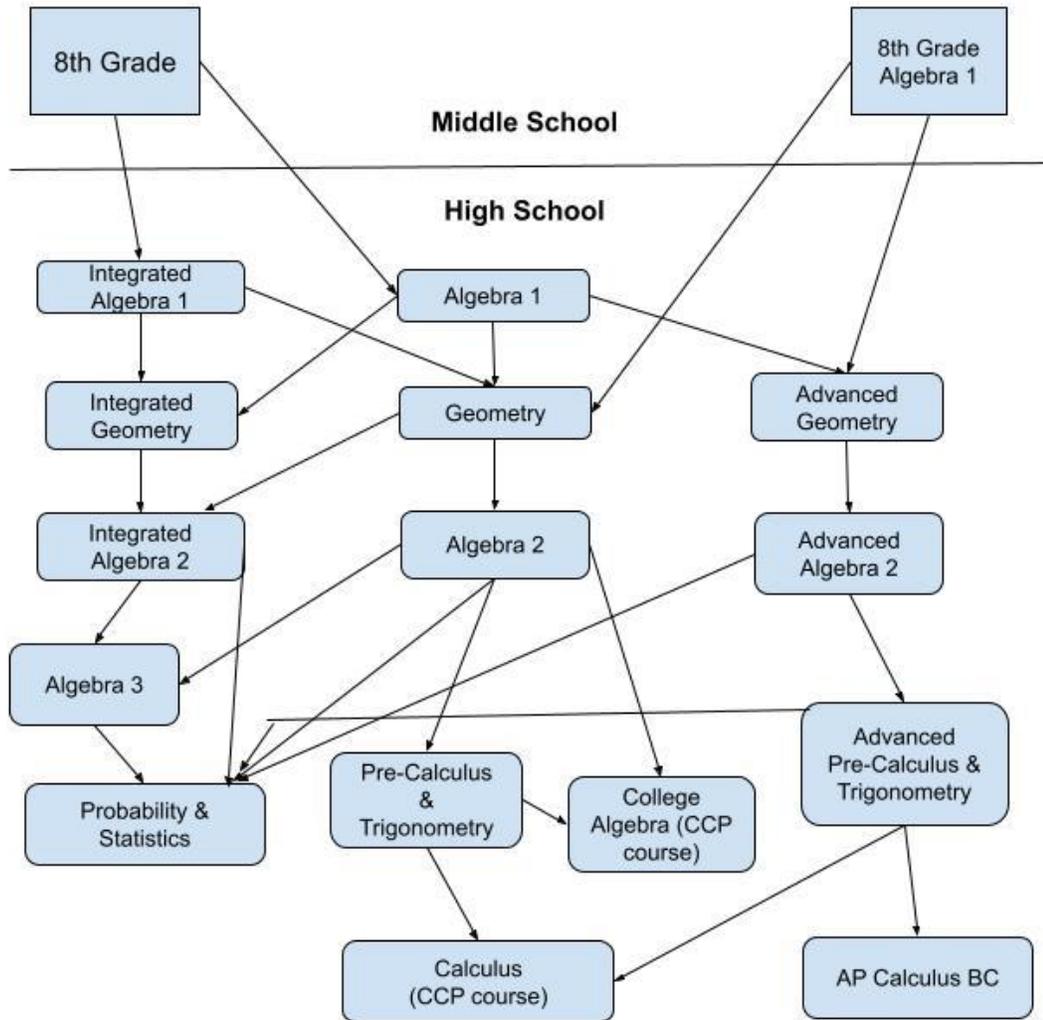
Each freshman student taking Integrated Algebra 1, Algebra 1 and/or Geometry will be required to Purchase TI-84 PLUS-C or a TI-84 Plus. Those students (Sophomores, Juniors and Seniors) who already own a TI-83 or TI-Nspire can use those devices but we recommend the TI-84 model for those needing to make a new purchase. It is important to note that these devices are currently required for all upper level math classes at Canfield High School, which means our freshman students will get many years of classroom application with their graphing calculators.

COURSES OFFERED IN MATHEMATICS

Integrated Algebra 1	2 credit
Algebra 1	2 credit
Integrated Geometry	1 or 2 credits TBD
Geometry	1 credit
Advanced Geometry	1 credit
Integrated Algebra 2	1 credit
Algebra 2	1 credit
Advanced Algebra 2	1 credit
College Algebra (CC+)	1 credit
Algebra 3	1 credit
Pre-Calculus/Trig	1 credit
Advanced Pre-Calculus/Trig	1 credit
Calculus (CC+)	1 credit
Advanced Placement Calculus	1.50 credit
Probability and Statistics	1 credit

****FEE: The AP exam fee is approximately \$95. The test will be given in May as per College Board.**

Mathematics Department Curriculum Flow Chart



We highly recommend granting respect for math recommendations for optimal content mastery and student success

Integrated Algebra 1

2 credits

Prerequisite: Recommendation

This course is the first of a four-year core curriculum. It includes the concepts of real number properties, solving linear equations, graphing and problem solving strategies, deductive reasoning, patterns, relations and functions, and an introduction to probability and statistics. It is the first course in a sequence that would empower the student to succeed in advanced mathematical topics. Concepts are introduced at an intuitive level. Upon successful completion of this course students will advance to Integrated Geometry. Students may also advance to College Prep Geometry with a grade of an A and teacher recommendation.

Algebra 1

2 credit

Prerequisite: Recommendation and a strong working knowledge of fractions, decimals, and percents.

This course is the first of a three-year core curriculum. It includes the concepts of real number properties, solving equations and inequalities, graphing and problem-solving strategies, deductive reasoning, patterns, relations, and functions, and an introduction to probability and statistics. It is the first course in a sequence that would empower the student to succeed in advanced math topics. Upon successful completion of this course, students will advance to Integrated Geometry, College Prep Geometry, or Advanced Geometry based on performance and ability

Integrated Geometry

1 or 2 credits TBD

Prerequisite: Passing grade in Algebra 1 or Integrated Algebra 1 and teacher recommendation

This course is the second course of the 3-year core curriculum. It includes the study of two and three-dimensional figures. Students represent problem situations with geometric models and apply properties of figures. Students classify figures in terms of similarity and congruence and apply these relationships. A system of axioms will be developed and used to construct a formal proof. Algebraic treatment of geometry will be included as will a brief treatment of trigonometry. Concepts are introduced at an intuitive level. **The following materials are required for this course: a compass, protractor, and ruler.** Upon successful completion of this course, students will advance to Integrated Algebra II or College Prep Algebra II with a grade of an A and teacher recommendation.

Geometry

1 credit

Prerequisite: Grade of A or B in Algebra 1 or a grade of A in Integrated Algebra 1 and teacher recommendation

This course follows a successful completion of Algebra 1. Topics to be covered include compass and straightedge constructions, properties of polygons and circles, proofs and logic, transformations, coordinate geometry, congruence, similarity, area, perimeter, surface area, volume, right triangle trigonometry, and probability. The course takes a “hands on” approach and will utilize both inductive and deductive reasoning, as students will discover and make conjectures and then prove and apply those conjectures. **The following materials are required for this course: a metal compass (with a wheel), a 4” protractor and ruler.** Upon successful completion of this course students will take Integrated Algebra II, College Prep Algebra II, or Advanced Algebra II based on performance and ability.

Advanced Geometry

1 credit

Prerequisite: Grade of A or B in 8th grade Algebra 1, and teacher recommendation.

This is an **accelerated college prep** course intended for those students with successful completion of **Algebra 1** in 8th grade. It is a course that is the first year of a four-year accelerated program leading to the successful completion of high school AP Calculus. It includes the study of two and three dimensional figures. Students construct and interpret geometric models and apply properties to problem situations. A system of axioms will be

developed and used to construct formal proofs. An algebraic treatment of geometry will be included as will a brief treatment of trigonometry. **The following materials are required for this course: a compass, protractor and ruler.** Upon successful completion of this course students will advance to Advanced Algebra II or College Prep algebra II based on performance and ability.

Integrated Algebra 2

1 credit

Prerequisite: Passing grade in Integrated Algebra I, Algebra I, Integrated Geometry or Geometry

This is the third phase of the core curriculum. The purpose is to reinforce and extend the concepts introduced in Algebra 1. We will review basic algebraic concepts and principles. Then we will formally study quadratic, polynomial, rational, radical, and exponential functions. Concepts are introduced at an intuitive level.

Algebra 2

1 credit

Prerequisite: Grade of A or B in Algebra 1 and in Geometry. Grade of A in Integrated Algebra 1 and Integrated Geometry and teacher recommendation.

This course is the third phase of the core curriculum. The purpose is to extend the concepts introduced in Algebra 1 and will include an exploration of functions including linear, quadratic, polynomial, rational, exponential, and logarithmic functions. It is the third course in a sequence that would empower the student to succeed in advanced mathematical topics.

Advanced Algebra 2

1 credit

Prerequisite: Grade of A or B in Advanced Geometry, and teacher recommendation.

This is an accelerated College prep course intended for those students with successful completion of an Advanced Geometry course. It is a course that is the second year of a four-year accelerated program leading to the successful completion of high school AP Calculus. This course is intended for those students planning to enroll in mathematics courses when they enter college. The purpose is to extend the concepts introduced in Algebra I and will include matrices, and logarithms. It is the third course in a rigorous sequence that would empower the student to succeed in advanced mathematical topics.

Algebra 3

1 credit

Prerequisite: Grade of A, B or C in Algebra 2 or Integrated Algebra 2 and teacher recommendation

This course emphasizes analytical and graphic problem-solving strategies involving a variety of functions. Topics include utilization of linear, polynomial, rational, exponential and trigonometric functions developing connections among various mathematical concepts. Concepts are introduced at an intuitive and more informal level.

Pre-Calculus/Trigonometry

1 credit

Prerequisite: Grade of A or B in Algebra 2 and Geometry and teacher recommendation. Although Algebra 3 is NOT a prerequisite, if it is taken, you must earn an A or B to move on to Pre-Calculus.

This course emphasizes analytical and graphic problem-solving strategies involving a variety of functions. Topics include utilization of polynomial, rational, exponential, and trigonometric functions, developing connections among various mathematical concepts. It is the fourth course that would empower the student to succeed in college level mathematical topics. Upon successful completion of this course students can advance to Calculus.

Advanced Pre-Calculus/Trigonometry

1 credit

Prerequisite: Grade of A or B in Advanced Algebra 2, teacher recommendation.

This is an **accelerated college prep course** intended for those students with successful completion of an Advanced Algebra 2 course and a prerequisite for the Advanced Placement Calculus course. Topics will include solving problems involving a variety of strategies, utilization of trigonometric equations, and developing connections among various mathematical functions. It is the fourth course in a sequence that would empower the student to succeed in college level mathematical topics.

(This course is the recommended course if the student's previous year's math grade was an A or B in Advanced Algebra 2).

College Algebra (CC+)

1 credit

Prerequisite: A or B in Algebra 2

This course is primarily to prepare STEM students (along with Math 1511) for Math 1570 or 1571 and business students for Math 1552. Topics include real numbers, equations and inequalities, linear quadratic, polynomial, exponential, and logarithmic functions, graphing techniques, systems of equations, and applications.

Calculus – (CC+)

1 credit

Prerequisite: A grade of A or B in Pre-Calculus or Advanced Pre-Calculus and teacher recommendation

This course is intended for those students with successful completion of a Pre-Calculus course. The course deals with the concepts of derivatives and its applications. A thorough study is made of functions and limits. The course also deals with the technique of integration and its applications.

AP Calculus**

1.50 credit

Prerequisite: Open to Seniors only with a grade of A or B in Advanced Pre-Calculus and teacher recommendation.

This course is intended for those students preparing for the **Advanced Placement Calculus Exam (AB)** given each May. Students are **required** to take the Advanced Placement Calculus Exam. This course covers all the topics in CALCULUS plus:

- a. derivatives and integrals of logarithmic and exponential functions
- b. derivatives and integrals of trigonometric and inverse trigonometric functions
- c. techniques of integration
- d. solving complex, multi-part word problems.

Probability and Statistics

1 credit

Prerequisite: Algebra 2 or A/B in Int. Algebra 2

This course is designed to give students a foundational understanding of the following topics: randomness and probability, descriptive statistics, sampling methods, relationships between variables, and inferential statistics. Emphasis will be placed on the proper way to display data and interpreting what the data implies. This class is recommended for the college-bound student who wants to gain basic understanding of statistical concepts that they will study in college.

MISCELLANEOUS

Helping Hands

.50 credit

Prerequisite: Teacher Approval
Open to Grades 10-12

This is a reverse inclusion course that will educate students about the field of special education. Most students will work as student helpers for students with multiple disabilities in grades K-12. Others may work in general education settings where students with disabilities are included. Students will learn about various syndromes, disorders, and other special education related topics. The class will benefit students with career goals in education, medical fields, speech and language, pathology, physical therapy, occupational therapy, and counseling.

***It should be noted that students who take this course may be at an increased risk for being exposed to aggressive behavior.**

Financial Literacy

.50 credit

Financial Literacy is defined as the ability to read, analyze, manage and communicate about personal financial conditions that affect one's material well-being. It includes the ability to discern financial choices, discuss money and financial issues without (or despite) discomfort, plan for the future and respond completely to life events that affect everyday financial decisions, including events in the general economy.

Internship for Professional Careers

.50 credit

Designed for Juniors and Seniors to have the opportunity to experience a career of interest with help from workplaces in our community. Students will complete at least 15 hours with the designated company as well as various assignments including but not limited to resume writing, critical reflection, research, and employability tasks.

The following criteria will be used when selecting candidates for the internship program.

- A minimum GPA of 2.5
- Completion of all course projects and assignments
- 95% attendance rate
- Reliable transportation to and from the work site
- 7th period availability for class and early release is preferred

Due to laws and regulations, some internship interests may not be appropriate for high school students.

- Most medical employers will not allow students onto their sites due to HIPPA laws
- Some medical professions are completely off limits (i.e. no surgical, psychological, neonatal, etc.)
- Most financial institutions will only accept college interns over the age of 21
- Some professions are not able to have interns due to confidentiality (i.e. social work, etc.)
- Some professions are not able to be explored due to our demographic region (i.e. fashion design, marine biology, aerospace, etc.)
- Entrepreneurship is not an acceptable internship

Once a student is placed at a site they are expected to complete their hours and they are not allowed to ask to be reassigned.

The program is limited per semester depending on the area of interest.

MUSIC

Music is a field of study with its own special body of knowledge, skills, and ways of thinking. The ability to perform, create, and to listen to music with understanding is highly desirable for every member of society. Musical potential is one of the basic abilities that exist in every individual. Through the study of music the student will learn life-style skills in value judgments, cooperation, patience, self-discipline, leadership, character, and service. Each student is given the opportunity to grow in his talent as far as he desires both in large and small group participation. Students must enroll in band and choir for the entire school year. There may be extenuating circumstances in which a student may only enroll for less than a full year with permission.

COURSES OFFERED IN MUSIC

FEE

Concert Band	1 credit	\$60.00 for school owned instruments only
Symphonic Band	1 credit	\$60.00 for school owned instruments only
Jazz Band	.50 credit	
Sectionals	.25 credit	
Chamber Ensemble	1 credit	
Concert Choir	1 credit	
One Octave Higher	1 credit	
Music Theory	.50 credit	\$15.00
AP Music Theory	.50 credit	\$15.00
Guitar 101	1 credit	\$15.00
Arts Alive	1 credit	
Music Lit & Appreciation (CC+)	1 credit	

***Fees are subject to change.**

****FEE: The AP exam fee is approximately \$95. The test will be given in May as per College Board.**

DESCRIPTION OF COURSES

Prerequisite: Students must earn an overall "C" or better for the year in order to continue on in band/choir.(Exceptions only given with director's permission.) Students enrolled in band/choir are expected to demonstrate good participation during each and every rehearsal as described in the course syllabus. A student may be removed from band or choir for disruptive behavior. This is a serious offense that disrupts the rehearsal environment. The student shall report directly to the office and speak to the dean of students or an administrator. If the problem becomes chronic and/or habitual the student may be removed from band or choir with a letter grade of "F" and will not be permitted to re-enroll the following year.

Concert Band or Symphonic Band

1credit

Prerequisite: Satisfactory participation in the Canfield Middle School Band program. Transfer students and others may be exempted from this requirement upon a satisfactory performance audition with the director. Any student without previous band experience is welcome to learn to play a band instrument

but must do so on his/her own time and expense by taking private lessons with a private lesson teacher or equivalent (approved by the band director).

Upon a predetermined level of achievement the student may be admitted to band. A student may enroll in band without having done so the previous year only if: **1)** he/she auditions for the band director; and, **2)** upon auditioning receives written permission from the director to re-enroll in band.

The band assumes different functions of musical performance as the year progresses; i.e. marching band in the fall, followed by concert band in general freshmen will be placed in Concert Band. All band students must attend summer marching band rehearsals which typically begin late July or early August and last through the start of school. An exact schedule for summer band camp will be distributed by the end of May/early June of the preceding school year. All students are required to perform at all required band performances, both marching and concert. Students who have excessive unexcused absences from summer band (25% or more) will not be permitted to participate at any of the marching band performances and will receive a "0" for each of those performances.

Students may be exempt from marching performances if there is a certified health reason or a bona fide member of the JV or Varsity football team. Dates of band performances for the entire school year are made available by the end of May/early June of the preceding school year.

All special units, flag line, color guard, drum major, and pep band are chosen **only** from the regular performing membership of the instrumental or vocal music program.

Jazz Band

.50 credit

Prerequisite: Students must be 1) members, in good standing, of the Canfield High School Bands and 2) by audition and/or selection, are permitted to enroll by the band director. Exceptions may be granted by the director to students who play guitar, bass, or piano. **Students must enroll for the entire year unless given permission by the director.**

Sectionals

.25 credit

Students who are enrolled in full band are also required to enroll in sectionals. Exceptions are 1) if a student is enrolled in a course required for graduation, 2) if a student is enrolled in an elective course, or 3) a student is enrolled in a Jazz Band. **Study hall will not be permitted in lieu of sectionals except for students who are on an IEP and require study skills.**

The Canfield High School Choirs

Concert Choir

1 credit

Prerequisite: Students need to be heard by either the middle school or high school vocal director for proper placement. Students do not need exceptional voices in order to participate in Concert Choir. They need to be able to function in a large choral setting. Students will apply various skills such as sight-reading, critiquing, performing and using proper vocal techniques. They will be given opportunities to expand their musicianship and musical knowledge through a variety of musical styles and musical opportunities. A syllabus will be distributed at the beginning of the year establishing performance dates and grading policies. Based on time allotment, lessons will be offered to all choral music participants who wish to study privately. Grades will be determined by class and performance participation, as well as other class activities.

Chamber Ensemble

1 credit

Prerequisite: Students are required to audition for the director of choral music. They should have participated in a choral environment prior to the audition. Students will be selected according to vocal ability, voice type, musicianship, and the ability to function in a choral setting. Students will be provided with an intense study of proper vocal training and musicianship. There will be numerous performance opportunities. Grades will be

determined through class participation and performances. A syllabus will be distributed at the beginning of the year stating all major performances and grading policies.

One Octave Higher

1 credit

Prerequisite: Students are required to audition for the director of choral music. They should have participated in a choral environment prior to the audition. Students will be placed according to voice type. This is an all female ensemble. This ensemble offers the students a unique experience singing in a Treble Choir. There is extensive acappella work as well as a concentration on vocal technique and musicianship, and the ability to function in a choral setting. The students will be given many opportunities to perform and be exposed to a variety of musical styles. A syllabus will be distributed at the beginning of the year outlining performance dates and grading policies.

ADDITIONAL MUSIC OFFERINGS

Music Theory

FEE: \$15.00

.50 credit

Prerequisite: Grades 11 and 12 or Instructor approval

This course is designed for those students contemplating careers related to the study of music and for those students wishing a deeper understanding of music composition.

AP Music Theory**

FEE: \$15.00

.50 credit

Prerequisite: Must have received a "B" or better for Basic Music Theory

AP Music Theory is an advanced level course designed to engage students in learning activities that will help them to achieve the outcomes assessed by the College Board's Advanced Placement Music Theory Examination. The AP Music Theory course is designed to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in score. These abilities will be developed through various listening, performance, written, creative, and analytical exercises. Students are expected to take the College Board's Advanced Placement Music Theory Examination. Students who successfully complete the AP Music Theory Examination and plan to major in music in college may be able to enroll in an advanced music theory course, depending upon the individual college's policy.

Guitar 101

FEE: \$15.00

1 credit

This class is for the beginning guitar student. Students will gain instruction in caring for, tuning and playing the guitar, **as well as the ability to read music**. Students will be exposed to various guitar music and guitarists. Acoustic guitars will be provided or you may provide your own acoustic guitar. This class is for beginners.

Arts Alive

1 credit

This humanities course will combine theatre, drama, music, art and dance. Students will be exposed to the importance of these art forms, their foundations, their structure and the roles they play in our lives today. Through experiencing these art forms we will gain a unique insight on our past and other cultures. We will even be creating our own societies. The class will include hands-on experience in each form as well as attendance at various performances, museums, demonstrations and exhibits. Students do not need a background in these art forms, they just need to bring their imaginations and creativity to make the arts come alive!

Music Literature & Appreciation (CC+)

1 credit

This course will promote the development of listening techniques applicable to Western and non-Western music through the comparison and contrast of the music of significant periods. This course is open to all students, not just band or choir members.

PHYSICAL EDUCATION/HEALTH

All freshmen and sophomores are required to take at least one semester of physical education each year or sign the P.E. waiver for sports/band participation. This satisfies the requirement of ½ credit towards graduation. Health is an additional requirement for graduation to be completed by the end of 10th grade.

COURSES OFFERED IN PHYSICAL EDUCATION

		Fee
Health (does not count as a physical education credit)	.50 credit	\$5.00
Physical Education	.25 credit	
Weightlifting Training/Physical Fitness	.25 credit	
Competitive Sports	.25 credit	
Fitness for Life	.25 credit	
Sports and Recreation	.25 credit	
Introduction to Sports Medicine	.50credit	
Sports Specific Training	.25 credit	
Healthy Living	.50 credit	

***Fees are subject to change.**

Weight Training/Physical Fitness (Weightlifting) .25 credit

This course will focus on instruction that develops a working knowledge and application of the basic theories and principles of weight training and physical fitness, as well as an understanding of the anatomy and related movement patterns of the body. The concepts learned will be demonstrated by implementing a personalized program through the use of the wellness facility. A premium will be placed on working in the 4 areas of physical fitness through a variety of resistance methods and techniques. **This course is recommended for the student who enjoys structure, exercise and an interest in the areas related to fitness.**

Competitive Sports .25 credit

This course is suggested for the avid physical education enthusiast. A premium will be placed on reaching advanced levels of skill, COMPETITION, AND INTENSITY IN TEAM PLAY. Students will be able to demonstrate these skills through organization, communication, cooperation, self-motivation/direction and strategy.

Competitive Sports for the Female Athlete .25 credit

This course is suggested for the avid physical education enthusiast. A premium will be placed on reaching advanced level skill, COMPETITION, AND INTENSITY IN TEAM PLAY. Students will be able to demonstrate these skills through organization, communication, cooperation, self-motivation/direction and strategy.

Fitness for Life .25 credit

This course will focus on developing a working application and knowledge of the physical, mental and social benefits of lifelong physical activity. Students will apply these concepts through daily, low impact fitness.

Activities can include but are not limited to: aerobics, yoga/flexibility, tai chi, power walking, jogging/running, body weight resistance, palates, and cardio kick-boxing. Students will be able to demonstrate these skills through goal setting, cooperation and self-motivation/direction. **This class is suggested for the student interested in getting into shape through low impact fitness without game play/competition found in Physical Education classes or advanced lifting found in Weight Training.**

Sports and Recreation

.25 credit

This course will focus on developing a working application of the physical, mental and social benefits of lifelong physical activity through recreational sports and activities. Focus will be placed on individual and team play using leisure, lifetime activities that can include but are not limited to: golf, tennis, volleyball, cornhole/horseshoes, darts, Frisbee and bowling. This class is suggested for the student who enjoys sports and competition outside of the typical competitive sports (football, baseball, basketball, soccer), with an emphasis on activities that can be lifelong.

Sports Specific Training

.25 credit

This course will focus on the athlete, whether they are out of season, preseason or in-season. The teacher will work in collaboration with coaches to target fitness and skill work that can be further enhanced in this setting.

Introduction to Sports Medicine

.50 credit

This course will focus on the basic concepts of Sports Medicine and Athletic Training. Areas of concentration will include: basic anatomy and physiology, first aid/wound care, injury prevention, injury assessment/evaluation, injury treatment, as well as basic taping, splinting, rehabilitation and sports specific conditions.

Health

.50 credit

Required by the Sophomore year

Health education provides opportunities to acquire knowledge and skills that will promote proper attitudes, decision-making, and practices necessary to meet present and probable future health needs. Areas covered may include but are not limited to: nutrition, addiction, mental/emotional health, physical fitness, disease and disorders, social health, community and consumer health and first-aid/CPR and safety. All students are required to take this course in their sophomore year. **It does not count as a science credit.**

Healthy Living

.50 credit

This class will focus on promoting good health. The students will be expected to identify health needs, problems, and concerns that may affect them now and/or as an adult. With this information they will then research the community/public resources available to address these issues. The culmination of this work will be a student-organized health fair which will promote good health to their peers. Healthy Living is a Health elective.

PHYSICAL EDUCATION WAIVER

Physical Education Graduation Requirement In the State of Ohio, students are required to complete one-half unit of physical education for graduation. At Canfield High School, this graduation requirement is met by student completion of two semester courses, each worth a quarter credit.

Exemption to the Physical Education Graduation Requirement (Section 3313.603 of the Ohio Revised Code, Letter L) Students in the Canfield Local School District in grades 9-12 who successfully complete two full seasons of interscholastic athletics, marching band, or cheerleading may be excused from the high school physical education graduation requirement. The “two full season” requirement may be completed within a single school year if the student plays a combination of two band/cheerleading/sports. According to the Ohio Revised Code, we may NOT provide for partial completion of the high school physical education requirement; therefore, the one-half unit requirement cannot be partially exempted. *For example, it is not possible to combine one semester of a physical education course with successful completion of one athletic, marching band, or cheerleading season to meet the physical education graduation requirement.*

Successful Completion of a Season Successful completion of a season, in the case of interscholastic athletics, means that a student is both a member of the team or group and is eligible for end of season awards/recognition. Formal starting dates for interscholastic athletics are determined by the O.H.S.A.A. Starting dates for marching band and cheerleading will be determined by the respective advisors; the starting date may be inclusive of mandatory camps.

Overall Graduation Requirements Those students excused from the high school physical education graduation requirement are required to complete one-half credit of an additional elective to meet the requirement of twenty-four total credits.

Process for exemption for interscholastic athletics, marching band, and cheerleading

1. At the end of each season, the athletic and band departments will provide the school counseling office with a list of students who have completed the requirements necessary for students to qualify for the Physical Education Graduation Requirement Exemption.
2. That list will be kept and updated each season and school year in the school counseling office.
3. Once a student has completed BOTH SEASONS NECESSARY TO BE EXEMPT FROM PHYSICAL EDUCATION, the student will turn in a Physical Education Exemption Form.
4. The Physical Education Exemption Form will list the two sports/band/cheerleading seasons completed, the year(s)/season(s) of participation, and the form will be turned in to the counseling office.
5. The Physical Education Exemption Form will then be cross-checked with the information provided by the athletic/band departments each season.
6. It is the responsibility of the student to turn in the form to the school counseling office. **THIS WILL NOT BE DONE AUTOMATICALLY FOR THE STUDENT.**

Note: Please be aware that this exemption may not transfer should a student transfer to a different school district with different policies.

Note: Students do not receive P.E. credit when they turn in the P.E. Exemption Form. They are simply being exempted from the graduation requirement of the credit.

SCIENCE

The science department offers a variety of courses which will meet the needs of both college-bound students and students who will pursue other avenues besides college. Three science credits are required for all Canfield graduates, one of which includes the freshman Physical Science course (all incoming freshmen must take this class, unless taken in 8th grade). Either Biology or Integrated Biology is required. Students are encouraged to take Biology or Integrated Biology in the spring semester of their freshman year, or the fall semester of their sophomore year. The third science credit can be fulfilled with any of the other science courses that total one credit. It is strongly recommended that students wishing to go to a particular college/university find out what the science requirements are for admittance ASAP in their high school career.

COURSE OFFERINGS IN SCIENCE

All courses listed below count as one credit and are considered “lab” sciences with the exception of Honors Chemistry, AP Chemistry, Honors Physics, and AP Physics.

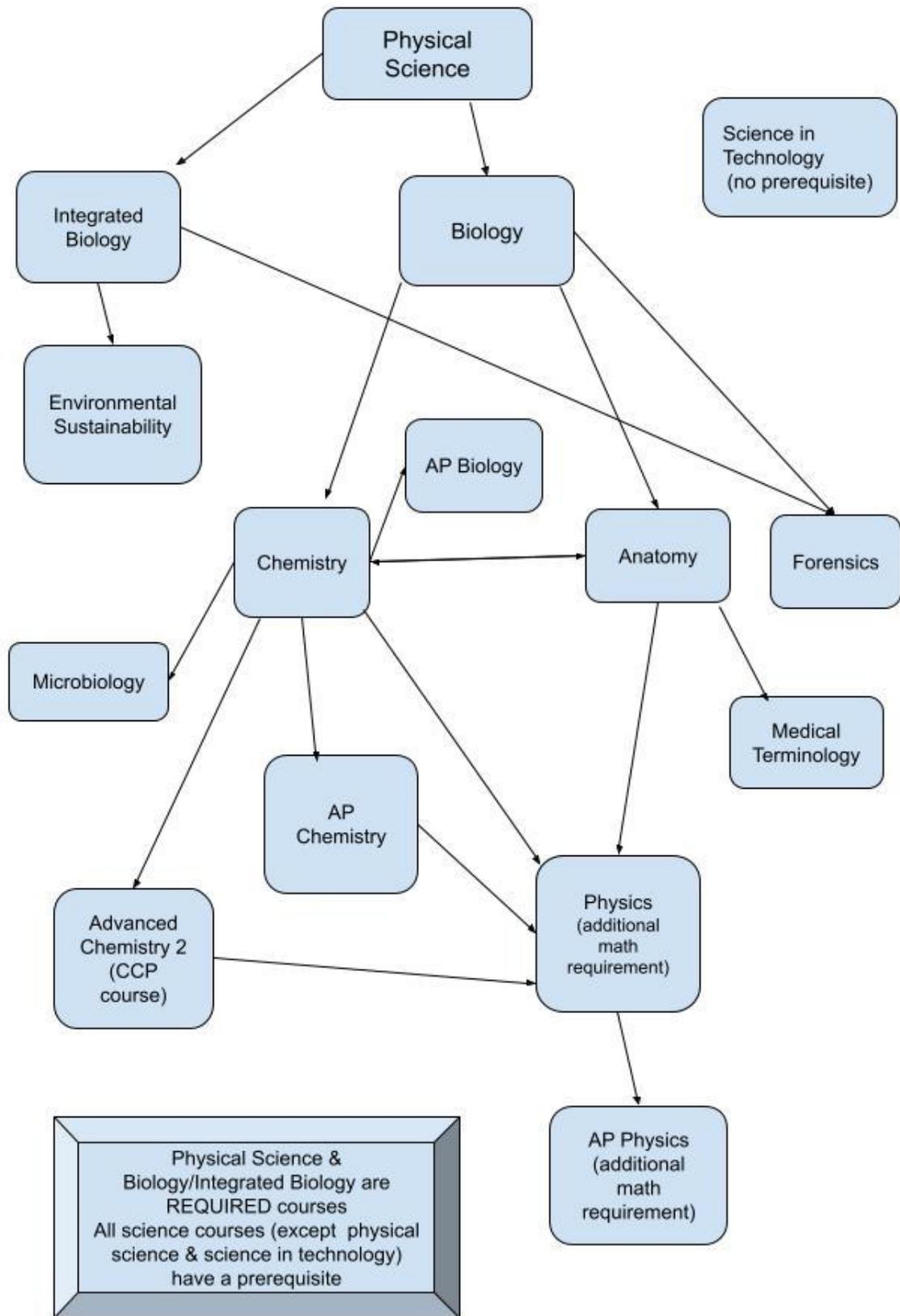
COURSE	Fee	RECOMMENDED YEAR
Physical Science	\$ 16.00	9
Integrated Biology	8.00	10
Biology	8.00	9 – 10
AP Biology (11 & 12)	10.00	11-12
Anatomy and Physiology	12.00	10 – 12
Chemistry 1	12.00	10 – 12
Adv Chemistry 2 (CC+)	12.00	11 – 12
AP Chemistry	12.00	11 - 12
Physics (12)	12.00	12
AP Physics (12)	12.00	12
Environmental Sustainability	10.00	10 – 12
Forensic Science	12.00	11 - 12
Medical Terminology		11-12
Science in Technology	8.00	9-12
Microbiology	10.00	11 – 12

***FEES are subject to change**

****FEE: The AP exam fee is approximately \$95. The test will be given in May as per College Board.**

NOTE: As you look through the particular course descriptions, pay close attention to recommendations, prerequisites, and graduation requirements specifically. Talk to a member of the science staff or a school counselor if you have any questions.

Science Department Curriculum Flow Chart



Physical Science

1 credit

Physical Science is required for all Freshmen. It is the introductory course for students preparing for an intensive concentration of science courses and those who are taking science only to fulfill state requirements. The course covers a wide variety of topics focusing primarily on physical science.

Integrated Biology

1 credit

Prerequisite: Physical Science and teacher recommendation

This life science course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within them. Other topics will include: chemical compounds, taxonomy and life processes, ecology, cellular energy (photosynthesis and cellular respiration), protein synthesis, sexual and asexual reproduction, cellular transport and microscopy, and cell structure and function. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

Biology

1 credit

Prerequisite: Physical Science and teacher recommendation

This life science course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Other topics will include: chemical compounds, taxonomy and life processes, ecology, cellular energy (photosynthesis and cellular respiration), protein synthesis, sexual and asexual reproduction, cellular transport and microscopy, and cell structure and function. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

Environmental Sustainability

1 credit

Prerequisite: Open to students who have taken Physical Science and Biology/Integrated Biology

This course will explore the study of human relationships with the environment delving into significant concerns about the unintended social, environmental, and economic consequences of rapid population growth, economic growth, and consumption of natural resources. This STEM-based course is filled with inquiry and problem solving skills which focus primarily on innovation, creativity, and design thinking. Real world challenges will allow for the opportunity to create, design, and build their own solutions based on environmental, economic, and social challenges of sustainability. The 21st century skills of collaboration, critical thinking, and communication will be integrated into a technology-rich environment.

Anatomy and Physiology

1 credit

Prerequisite: Biology with a B or better or C with teacher recommendation

This is an elective, comprehensive life science course presented with a project-oriented approach. To complete projects, students will develop a working knowledge of computer programs, data collection interfaces, and preserved specimens such as a cow's eye, and a sheep's heart and brain. Throughout this course, considerable emphasis is placed on the interpretation and application of anatomical and physiological principles related to body systems in order to analyze disturbances in homeostasis. This course is intended for those who are interested in

learning about the human body and those who are interested in pursuing a health related career. Advanced concepts introduced during Biology will be revisited in Anatomy and Physiology relating to the human body and its homeostatic mechanism. **ALL STUDENTS MUST DISSECT A VARIETY OF PRESERVED SPECIMENS TO RECEIVE CREDIT FOR THIS COURSE.**

Chemistry 1

1 credit

Prerequisite: Grade of A or B in Algebra 1 and Biology or teacher recommendation

Chemistry 1 is an elective designed for the college-bound student who has had previous science courses and a solid background in math. This course will provide a foundation for student understanding of basic chemical concepts. The student will use various laboratory techniques and calculator-based data collection in order to demonstrate or examine selected topics. The student will also use spreadsheets, word processing, graphical analysis, and the World Wide Web on the computer to further explore these chemical concepts.

Adv. Chemistry 2 (CC+)

1 credit

Prerequisite: Chemistry 1 with grade of A or B and teacher recommendation

This higher-level math based course is an elective that will expand the breadth and depth of Chemistry 1, taking an advanced look at the topics that were introduced. More involved concepts such as thermochemistry, bonding and Atomic structure will be examined conceptually and mathematically. Students in this course will get a first-hand look at their first semester of a college chemistry class.

AP Chemistry**

1.5 credit

Prerequisite: An A in Chemistry 1 and teacher recommendation

This course is designed to prepare the students for the Advanced Placement Chemistry Exam. The topics covered will be in accordance with the College Board AP syllabus: the mole concept, formulas, stoichiometry, gases, phases of matter, solutions, Periodic Table, atomic theory and atomic structures, thermodynamics, kinetics, equilibria, oxidation-reduction, electrochemistry, and organic chemistry. Students who are considering registration in this course must understand that the work is highly intensive and that success requires dedication and hard work on their part.

AP Biology**

1 credit

Prerequisite: Biology with an A or B, Chemistry 1 with an A or B, and teacher recommendation
Grades 11-12

This challenging course is designed for highly motivated/interested students who have successfully completed Biology and will continue to study in Biology or related science fields. The course work is rigorous and is designed to be the equivalent of a college introductory Biology course. Completion of this course and successful results on the AP Biology exam may be accepted as possible college credit.

Through lectures, seminars, and individual investigations, the topics covered in AP Biology will include cell structure and function, taxonomy, evolution, ecology, biosynthesis, genetics, protein synthesis, plant and animal physiology, applied botany, bioenergetics, homeostatic mechanisms, behavior, gene action, and more.

Students preparing to take the AP exam will need to spend extra study time, outside of school. **A pre-course assignment is required. ALL students electing to take AP Biology should see the instructor before the end of second semester exams for the summer assignment.**

Physics

1 credit

Prerequisite: Strong performance in Algebra 1, Algebra 2, Geometry and teacher recommendation

Through a project-based course of study, students see how mathematics applies to their everyday environment. This course is a qualitative look at several central themes in physics: data analysis, vectors, motion, force energy, waves, sound, light, optics, electricity and magnetism. Emphasis is placed on laboratory exploration of events familiar to students' lives and thought-provoking classroom/individual projects as well. Several times during the semester students will be assigned individual/group projects to illustrate their understanding of current concepts. These projects are a large part of a student's grade and will, from time to time, require "out of pocket" expenses. This course will provide students with a strong background that is both necessary for future reference in college and useful in today's world. While a solid background in the above-mentioned math areas is indeed necessary, this class places primary emphasis on comprehension and application, rather than computation.

AP Physics**

1 credit

Prerequisite: Physics with an A or B and teacher approval – **OPEN ONLY TO SENIORS WHO HAVE TAKEN CALCULUS OR ARE CONCURRENTLY TAKING AP CALCULUS**

This course is designed to prepare the students for the Advanced Placement Physics Exam "C- Mechanics". This is a calculus-based program and the topics covered will be in accordance with the College Board AP Syllabus (all aspects of motion analysis). Passing the AP Physics-C Exam gets a typical engineering or medical student credit for their first semester of college physics at any university. Students who are considering registration in this course must understand that the work is highly intensive and that success requires dedication and hard work on their part. It is highly recommended students purchase a copy of a Course Preparation Workbook upon the start of class (specific workbook used will be selected each year in accordance with test changes).

Forensic Science

.50 credit

Prerequisite: Open to Juniors and Seniors who have completed Biology/Integrated Biology with "C" or better.

Forensic Science is recommended for students interested in learning about the application of science to criminal investigations in order to provide evidence that can be used in the solution of criminal cases. Forensic science draws upon physics, chemistry, biology and other scientific principles and methods.

Medical Terminology

.50 credit

Prerequisite: Anatomy and Physiology

This course is designed for students who are planning to enter the medical field in some capacity. The course will focus on learning the basic rules and elements of medical term, the medical terms related to body structure, and medical suffixes and prefixes to recognize medical terms.

Science in Technology

1 credit

Our advancement as a species has been guided almost exclusively by our quest to understand and better ourselves. Not only has this quest produced great technology, but it also has been governed by and limited through the very technology it has dreamed up. This course explores the ways our world has changed over the years through the lens of technological advancements. Topics for discussion include how we view our universe, how we communicate, how our bodies work, things that change the way we live, our use of planetary resources, what life could look like in the future, and many more. This course is open to anyone grades 9-12 and counts as a science elective.

Microbiology

1 / .50 credit TBD

Prerequisites: Biology and Chemistry 1

This course is a survey of representative types of microorganisms in terms of their structure, function, cultivation, identification, and methods employed for their control. Emphasis is placed on those causing human disease and the role of the immune system.

SOCIAL STUDIES

It is the concern of the social studies department that students shall be aware of the ideas and events which have shaped today's world, that they shall be aware of the realities and dynamics of the contemporary world. Students shall develop respect for themselves, for others and for their environment. Students shall understand the values held by others and clarify their own values. To this end we have developed course offerings in social studies dealing with the history of mankind and related historic and modern institutions.

COURSES OFFERED IN SOCIAL STUDIES

Required Courses (3 credits)

American History (9 th grade)	1 credit
World Civilization (10 th grade) or AP World Civ. (10 th)	1 credit
American Government (11, 12) & One SS Elective (12 th) or One credit of AP Government	1credit

Electives (Grade specific)

AP Government**(11, 12)	1 credit
AP U.S. History** (11, 12)	1 credit
AP World History** (10)	1 credit
Cultural Geography (9, 10, 11, 12)	.50 credit
Economics (9, 10, 11, 12)	.50 credit
Global Policy (9,10,11, 12)	.50 credit
Modern America (10, 11, 12)	.50 credit
General Psychology (11, 12) (CC+)	1 credit
Human Development (9,10,11,12)	.50 credit
Sociology (9, 10, 11, 12)	.50 credit
Terrorism and Counter Terrorism (10, 11, 12)	.50 credit
Empires (9,10,11,12)	.50 credit
Cyber Society (9, 10, 11, 12)	.50credit

****FEE: The AP exam fee is approximately \$95. The test will be given in May as per College Board. Students must take the AP Test to pass the class.**

American History

1 credit

Required for all Freshmen

(This course is designed to be one of the two social studies foundation courses.)

This course will open with a brief review of the formation of the American Government during the Constitutional period. After analyzing the Gilded Age and the Progressive Era, this course will take America from its imperialistic impulses and involvement in World War I. The Roaring Twenties led to a state of economic collapse. The causes and results of World War II are emphasized which lead to the examination of Cold War strategies of the latter part of the course.

World Civilizations

1 credit

Required for all Sophomores (or **AP World History**)

(This course is designed to be one of the two social studies foundation courses.)

This class is one of the two foundation courses offered for every Canfield High School student. A wide variety of techniques are employed to stimulate the student's higher order thinking skills. Through journal writing, role playing, internet research, cooperative learning, presentations, graph interpretation, world atlas analysis, hands-on activities, and class discussion, the world civilization instructors are committed to providing an enriching learning environment to prepare all sophomore students for the next level. Students will be provided with the opportunity to use the media center computer labs throughout this course. This course examines world events from 1600-present. It explores the impact of the Democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence.

AP World History**

1 credit

AP Modern World History is an introductory college-level modern history course. Students cultivate their understanding of world history from c. 12 CE to the present through analyzing historical sources and learning to make connections and historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Topics include" The Global Tapestry, Networks & Exchange, Land Based Empires, Transoceanic Interconnections, Revolutions, Industrialization, Global Conflict, Cold War & Decolonization, and Globalization. Students who take this course are required to complete the AP Modern World History exam.

American Government

.50 credit

Open to 11 and 12

The U.S. government course moves from the foundations of government to applying these principles to politics, civil rights, current events, and a unit of economics will be taught. One should expect to be an active participant in all class work. A variety of assessments and activities can be found in this course.

AP Government**

1 credit

Open to 11 and 12 (seniors given first Priority)

Prerequisite: Minimum of an A in American History and World Civilization and teacher recommendation

Government is part of the required social studies curriculum and is offered for one credit at the AP level. This course focuses on American Government at all levels along with the Constitution, Bill of Rights, and Political Parties along with a unit of economics. The topics dealt with are presented via several instructional tools: textbooks, current events, speakers and audio-visual media. A large amount of out-of-class reading is expected.

AP U.S. History**

1 credit

Open to 11 and 12 (seniors given first priority)

Prerequisite: Minimum of a B in American History and World Civilization and teacher recommendation

AP U.S. History is designed to provide students with the analytical skills and factual knowledge necessary for college. The course will review the sweep of the American Saga and go in depth on major themes in American History. Supplemental readings and research papers will be required. This is a demanding course intended only for students willing to accept an academic challenge.

Cultural Geography

.50 credit

Open to all students (9-12)

This course will examine major geographical concepts and their relationships to world cultures. Students will look at how physical characteristics define regions as well as how those regions influence and are influenced by people. This course will place emphasis on geography skills and the interactions of various cultural groups from around the world.

Economics

.50 credit

Open to all students (9-12)

This course takes a fast-paced approach to the integration of the fundamental concepts and principles of Economics throughout history. A great deal of time will be spent on current social issues and how economic concepts are used to address these global problems. Areas stressed include the laws of supply and demand, factors of production, business cycles, comparative economic systems, role of government in markets, the Federal Reserve System, entrepreneurship, and the global economy. This class will use a wide variety of evaluations including: powerpoint presentations, debates, multiple choice and essay tests, web-based and internet research, cooperative learning, and will conclude with a term length project.

Global Policy

.50 credit

Open to all students (9-12)

If you want to know about what is happening in the world today, then this social studies course is for you! This redesigned course is for any student attempting to expand their knowledge of global affairs in the 21st century. We will examine the role that the U.S. has in influencing foreign nations and in turn the effect those nations have on America's domestic policies. We will use several outside readings to further enhance the students' base knowledge of how international events affect America. We will explore books ranging from Niccolo Machiavelli's *The Prince* to Sun Tzu's *The Art of War*. This class will be rewarding with a strong emphasis on daily classroom discussions.

Modern America

.50 credit

Prerequisite: Successful completion of American History or World Civilization.

Open to 10-12

This class involves a dynamic world power. We will study many aspects of America from our prison systems to our growing poverty rates. We will also focus on the current topics in the news from politics to other major stories and other current events. Materials used are from many resources such as 60 Minutes, John Stossel and Time Magazine. The course is discussion and research based. Students should be willing to state their opinions and ideas to the class and be ready to research and create projects. The goal is for the students to learn from one another and learn to respect other perspectives. Participation during discussions is vital to the learning process and therefore will be tracked and calculated into final grades.

Human Development

.50 credit

Open to 9-12

Psychology is the scientific study of behavior and mental processes. This is a project based course that will provide a general overview of a variety of psychological approaches to better understand an individual's thoughts, emotions, perceptions, reasoning processes, memories, and biological activities that maintain physical functioning. We will begin to see how psychologists attempt to help change and improve the lives of people by describing, predicting and explaining human behavior and mental processes.

General Psychology (CC+)

1 credit

Open to 11 - 12

An examination of scientific and clinical approaches to understanding the relationships between one's physical, mental and emotional well-being, and quality of life, including the basic principles governing the growth and maintenance of behavior, emotion and cognition.

Sociology

.50 credit

Open to 9-12

Sociology is the study of human relationships. In this course, the students will explore how environment shapes their lives. Through the curriculum, students are encouraged to examine their goals and perspectives on different aspects of their lives including left brain/right brain, domestic violence, men vs. women, the language of touch, deviant behavior, parenting, racism, socialization, stages of development, values, norms, and the human valuing process. Many life skills are stressed throughout this course and the students are taught to appreciate the nature and value of personal relationships and the ways in which these relationships can enhance their lives.

Terrorism and Counter Terrorism: Comparing Theory and Practice

.50 credit

Grades 10-12

Terrorism has become one of the defining factors of our age. It dominates headlines, threatens governments, businesses, and ordinary citizens. It is one of the most important threats to peace, security, and stability in our world. Students will explore what terrorism means, who or what is threatened by it, and what can be done about it. Specifically, how can we limit the impact of Terrorism and examine what theories, assumptions and conventional wisdom has been produced that could help us understand and deal with terrorism.

Students will focus on 3 things:

1. The essence of terrorism and an instrument to achieve certain goals.
2. An overview of the state-of-the-art terrorism studies since 9-11.
3. The implications and policies for policy making (including stressing their importance or debunking myths).

Empires

.50 credit

Open to 9-12

This course is open to all students who are interested in studying the great empires of World History. We will study the characteristics of empires, their rise and fall, and draw parallels between empires of the past and empires of today. The growth and popularity of video games will be explored as a connection between history and modern technology empires.

Cyber Society

1/.50 credit TBD

Open to 9-12

Technology is advancing rapidly and connecting us in ways never before imagined. The modules in Cyber Society are designed to use several concepts and ideas as an approach to increase cyber awareness among high school students. This course helps contribute to the initiative of developing a better, more educated cyber workforce. The lessons within each easily customizable module improve students' critical thinking and critical reading skills as they pull information from articles and other sources. Students also practice their presentation skills as they participate in debates and group presentations. The modules include a wide variety of topics such as artificial intelligence, communications, ethics, politics, terrorism, and business as they pertain to cyberspace.

TECHNOLOGY EDUCATION

Technology education contributes to the growth of the individual by aiding in coordinating intellectual capacities with mechanical and hand skills. Technology education students frequently draw upon their learning experiences in their future careers. Every student can profit from a course in technology education if for no other reason than to gain skill in successfully completing hobbies and do-it-yourself projects.

COURSES OFFERED IN TECHNOLOGY EDUCATION

	Fee	
Industrial Technology 1 (Wood Tech)	\$25.00	1 credit
Industrial Technology 2 (Wood Tech)	25.00	.50 credit
Industrial Technology 3 (Wood Tech)	25.00	.50 credit

***All Wood Tech courses will have an additional wood fee based on an individual project**

Engineering Graphics 1	20.00	1 credit
Engineering Graphics 2 & CAD	20.00	1 credit
Architectural and Computer Aided Design		.50 credit
Introduction to Computer Science		.50 credit
AP Computer Science Principles**		1 credit
Adv. Manufacturing/Robotics	20.00	1 credit

***Fees are subject to change**

****FEE: The AP exam fee is approximately \$95. The test will be given in May as per College Board.**

Industrial Technology 1 (Wood Tech)

1 credit

Prerequisite: None

This course is offered to those students who have never had a class in wood technology. It offers the fundamentals of wood technology, use of hand and power tools with emphasis on safety and proper operations of power tools. Multiple projects will be completed during the fall semester class. **Each student will be assessed a wood fee of \$25(+) in addition to the class fee.** A mandatory first project will be assigned by the instructor.

Industrial Technology 2 (Wood Tech)

.50 credit

Prerequisite: Industrial Technology 1, A or B in Industrial Tech. 1 and teacher recommendation

This course is a continuation of Industrial Technology 1. This will be based on mastery of woodworking and safety skills. In this course students will complete advanced woodworking projects. **A class fee of \$20.00 and a materials fee of \$60.00(+) will be assessed.** Students will apply what they have learned in Industrial Technology I and safely apply it to Industrial Technology II.

Industrial Technology 3 (Wood Tech)

.50 credit

Prerequisite: Industrial Technology 2, Grade of A in Industrial Tech. 2, and signed teacher recommendation.

This course is a continuation of Industrial Technology 2. This will be based on mastery of woodworking and safety skills. In this course students will complete advanced woodworking projects. Students will apply what they have learned in Industrial Technology 1 and 2 and safely apply it to Industrial Technology 3.

Engineering Graphics 1

1 credit

Prerequisite: None

This course is designed to introduce the student to the concept of computer aided design and drafting (CADD). Concepts learned in math and science will be reinforced as they relate to the technical representations utilized in the engineering and architectural professions. The students will use AutoCAD as they learn the theory and practical applications for geometric construction, multi-view orthographic projection and auxiliary, assembly and pictorial drawings.

Engineering Graphics 2 and Computer Aided Design

1 credit

Prerequisite: Engineering Graphics 1

This course offers the student a more comprehensive challenge in the development and design of mechanical, civil, and architectural representations using AutoCAD. The student will use the computer software to develop detailed assembly drawings for mechanical equipment; site plans for civil works projects and three-dimensional construction of solid objects for modeling.

Architectural and Computer Aided Design

.50 credit

Prerequisite: Engineering Graphics 1

This course introduces the student to the architectural considerations involved in the design and construction of a single-family home. The student will explore the various architectural styles used extensively throughout the American landscape along with its derived history. Each student will develop a detailed construction plan and construct a scaled balsa wood model of the home, illustrating the actual framing techniques employed by the construction industry.

Advanced Manufacturing/Robotics

1 credit

Students in this class will explore the field of robotic design using a variety of hands-on activities. The semester will begin with an introduction to the tools used to create robotic devices. Students will work in teams to create simple drive trains capable of movement through tele-operated interaction. Programming is an essential and vital element of robotic design and therefore, students will learn "C" Programming language to control an on-board microprocessor. Cad applications will be used to design the mechanical aspects of the robot. Autonomous navigation, where the robot is controlled entirely via programming, is another aspect of robotic design that the students will explore. Mechanical concepts of design, such as gearing, torque, speed, and power are introduced in the course as well. These topics are investigated using hands-on labs where students will build robots that will meet a variety of criteria such as climbing, pushing, pulling, and articulated manipulation (i.e. robotic arms). Various robotic sensors will also be introduced as a part of the curriculum.

Introduction to Computer Science

.50 credit

Prerequisite: Algebra 1

This is an introductory course to the field of computer science. The curriculum was designed by the University of Texas and marketed by Edhesive. Students will be introduced to a variety of programming languages. They will explore the computer science industry; learn about problem solving strategies, software design and the foundations of computer science (data structures, procedures, and algorithms). The curriculum is through online modules using the program language Python. Delivery of the content will utilize a MOOC (Massive Open Online Course) structure including video lessons and downloadable powerpoints. The course consists of performance tasks such as research reports and/or programming labs. Grading is 50% quizzes and exams, 30% coding labs and 20% homework, lecture completion and discussions. This course will serve any student who has little to no

programming experience and would like to learn more about the field and/or gauge his or her interest level in other computer science offerings at Canfield High School.

AP Computer Science Principles**

1 credit

Prerequisite: Algebra 1 and successful completion of Introduction to Computer Science

AP Computer Science Principles is a full-year course focused on the 5 “Big Ideas” in computer science using project-based approaches. The course introduces students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security, and how computing impacts our world. Students will develop the computational thinking skills needed to fully exploit the power of digital technology and help build a strong foundation in core programming and problem-solving.

CAREER BASED INTERVENTION PROGRAMS

Career Based Intervention Program CBI-1 (formally known as OWA) is designed to serve youth fourteen and fifteen years of age (grades 9 & 10) who may need additional encouragement to finish their high school education. This program is aimed specifically at helping youth to become reoriented and motivated toward education and exposed to *career exploration* and the *world of work*.

Prerequisite: Teacher Recommendation

Students will work for one or two periods of the day at their school work stations under the supervision of a work sponsor. In addition, students will receive regular instruction in all other required subjects. In this program, the student receives work experience in a job. Examples of job stations in which students are placed are the cafeteria, bus garage, maintenance areas, libraries, offices, and other permitted areas. The **CBI-1** teacher-coordinator identifies the work station, coordinates and gives general supervision to the student working under the direct supervision of the work sponsors. He coordinates students' on-the-job experiences and counsels with the work sponsors in helping to develop good student work habits and work performance. The work sponsor and the work adjustment teacher-coordinator both will be concerned with evaluation of student progress.

Career Based Intervention CBI-2 (formally known as OWE) is a cooperative work-study program designed to assist the student (grades 11 & 12) in exploring the world of work and in meeting requirements for graduation. The course attempts to encourage motivation, positive attitude, and good work habits both in school and on the job.

Prerequisite: 16 years of age, transportation to and from the job station and approval of the **CBI** coordinator

Students will spend one block per day in the **CBI-2** related class and the remaining morning periods taking either courses required for graduation or available electives. Afternoon hours are spent in paid, on-the-job work situations. Three credits are granted for the combined **CBI-2** class and work experience. The **CBI-2** coordinator is responsible for related class instruction and on-the-job supervision. Related class topics include: pre-employment and skills assessment, job search, interview and follow-up techniques, job and social adjustment, career information and exploration, decision making, study techniques, income tax returns, insurance, banking, budgeting, management, and consumer economics. The **CBI-2** coordinator also helps to locate employers and potential job sites and to monitor students at their jobs in such areas as attendance, punctuality, cooperation, and ability to follow directions. Success at the job-site and success in the classroom just go hand-in-hand in order to remain in good standing in the **CBI-2** program. Graduation (not money) is the primary goal involved in CBI-2.

EARLY RELEASE PROGRAM

Prerequisite: Junior or Senior

The early release program is a **privilege** granted to juniors or seniors who maintain a solid academic, attendance and discipline record. These students are released at the end of 3rd block or period 7.

Early Release Rules and Conditions:

1. Be consistently in school and on time. (No more than 3 tardy each nine weeks)
2. Have no failing grades in any class.
3. Drive to and from school in a safe manner.
4. Not return to school grounds without administrative approval.
5. Do not take others with you when you leave who do not have early dismissal.
6. Realize that if you have any discipline issues, your early release privilege will be revoked and you will be placed into study hall.
7. Display a parking tag and follow all student driving and parking policies at all times.

Understand that if someone should violate any of the above rules and conditions the administration will revoke the early release privilege and assign the student to study hall.

MAHONING COUNTY CAREER AND TECHNICAL CENTER

The Mahoning County Career and Technical Center provides a comprehensive program of vocational training. The programs offered are two years in duration, the junior and senior years of high school. Students attend classes at the MCCTC and receive a vocational certificate upon successful completion of all requirements in most cases. Students may attend classes on a full-time basis or attend CHS for academic classes and the MCCTC for vocational courses. Check with your counselor for information about the program in which you are interested. Students also receive a diploma from the home school and are eligible for nearly all home school activities.

Application to the MCCTC takes place early in the second semester of the sophomore year. In the event that more students apply for a particular program than the number of spaces available, such factors as attendance, grades in related courses, and related activities may be used to determine admission. Students with credit deficiencies may still apply to the technical center, but they are responsible for correcting any deficiencies prior to graduation. In order not to have any deficiencies upon admission to the MCCTC, students should earn at least the following credits by the end of the sophomore year:

English	2 credits
Mathematics	2 credits
Science	2 credits
Social Studies	2 credits
** Health and Physical Education	1 credit (.50 Health, .50 P.E.)

MEDICAL INFORMATION

Medication

According to State Law and Canfield Board Policy, students are not allowed to carry medication at school. The school nurse is able to give your child over-the-counter medications that the school provides such as Tylenol and Ibuprofen after proper evaluation of your child. However, if the nurse is not in the building, the only medication that your child will be given is the medicine that the parents have provided. Besides providing the medication, the parent must also complete the necessary forms that require both a parent and physician signature. If a parent or guardian has completed the correct paperwork and has provided the school with the medication, then the school nurse or a trained staff member may give the medication. **THE ONLY MEDICATIONS A STUDENT MAY CARRY AT SCHOOL ARE EPI-PENS AND ASTHMA INHALERS AND ONLY WITH PROPER DOCUMENTATION INCLUDING A PHYSICIAN'S SIGNATURE. ****FORMS CAN BE FOUND ONLINE.**

School Nurse

All students must be evaluated by the nurse before leaving school for medical reasons. The School Nurse will give over-the-counter medication when necessary. The nurse will provide all first-aid and medical care necessary for the health and well being of the students and staff. The nurse will determine if any student or staff must be excluded from school for medical reasons to protect the health of all. The nurse will also do mandated, routine screenings.

The Ohio Department of Health requires that every school in Ohio screen all ninth and eleventh grade students for Vision and all ninth graders for Hearing. It is also required that if a student does not pass the minimum standard that the Department of Health has set, a referral for care will be sent to the student's parent. This is an opt-out requirement which means that all ninth and eleventh grade students will be screened unless a letter is sent to the school stating that the parent is against this screening.

The current immunization requirement for high school students, besides the already mandated immunizations, is that by the twelfth grade students must have had an additional Tdap (between the 7th and 12th grades). Students should have one dose of the MCV4 vaccination between grades 7-10 and the second dose by November 1st of their senior year. These immunizations are required by both the State of Ohio and by the Canfield Board of Education. However, there is an exemption form available on line with the explanation of its uses in the school. This form is also available from the school nurse.