

CUYAHOGA HEIGHTS HIGH SCHOOL PROGRAM OF STUDIES

2020-2021

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Mr. Patrick Coleman

Principal 6-12

Dear Student,

The Cuyahoga Heights High School Program of Studies is designed to provide you and your parents with a description of the many courses offered by our departments. As a student here, we encourage you to prepare yourself to the best of your ability for whatever post-secondary pathway that you choose to pursue and, along the way, to experience our diverse academic offerings and the rich variety of electives offered. While high school is a time to refine and practice your academic skills in preparation for college and/or career, it is also a time to try new subjects and take full advantage of all the opportunities available to you during your time with us at CHHS.

It is our mission to “graduate students who are college and career ready, are critical thinkers, are culturally aware, and are prepared to be successful citizens of the 21st century.” To this end we provide you with a breadth of courses for both college bound and the career focused students that will provide you with the greatest opportunity for success and continued growth.

We ask that you carefully consider your course selections, keeping in mind your “big picture” but not losing sight of where you are as a learner at this point in your academic development. This guide is provided as a resource and should not be considered a substitute for recommendations of your teachers or the insights of your guidance counselor. Appropriate placement is a critical factor in your success. We encourage you to engage your current teachers and utilize their input. The course selection process should provide you and our family with a basis for meaningful, informed discussion.

All of us here at CHHS are available to help you!

Best,

Patrick Coleman

Principal Cuyahoga Heights HS

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P LANNING AND POLICIES

HOW TO PLAN YOUR PROGRAM OF STUDY

Students are encouraged to carefully plan a program of studies that will assist them in reaching their educational and occupational goals. The programs outlined on the following pages are designed to guide students in selecting the courses that will help them achieve their goals.

It is important that students select courses that fit their career plans. It is suggested that the following occur:

- Review all requirements for graduation.
- Read the information given about each department.
- Study the course sequence recommendations that lead to specific career goals.
- Complete the Four-Year Course Planner at the end of the booklet, paying particular attention to graduation requirements.

GRADUATION REQUIREMENTS

Our high school is on a two-semester schedule, each consisting of approximately 18 weeks. In order to graduate from Cuyahoga Heights High School, a student must earn at least 22 credits. Required subjects are English, Mathematics, Science, Social Studies, Health, and Physical Education. The Ohio Legislature and Ohio Department of Education have worked together and developed new State Standards to raise student accountability and achievement.

<u>Subjects</u>	<u>Minimum number of credits required by CHS</u>
English*	4.00
Mathematics	4.00
Science	3.00
Social Studies	3.00
Technology, Fine Arts, or World Language	1.00
Health	0.50
Physical Education	0.75
Electives	5.75
Community Service	60 hours
Ohio State Tests or End-of-Course Exam	Yes
Total credits	22.00

The 4 credits of English must include 1 credit of American Literature/Composition (English III or AP) and one credit of British Literature/Comp (English IV or AP)

Additional requirements for graduation:

1. Elective credits of at least one unit, or two half units, from the areas of technology, fine arts and/or foreign language.
2. 60 Community Service hours must be completed by May 1st of the senior year.

Students may make up failures for credit purposes at recognized and accredited schools during summer and evening terms, providing they have received prior written approval to take such coursework from their counselor.

Normally summer and evening courses may not be taken for new credit. In sequential programs such as English, Math, and Social Studies, students must pass a prerequisite course before being permitted to take the next course, (example English 1 to English 2 or Algebra 1 and Algebra 2).

Additional Ohio Department of Education graduation requirements for the Classes of 2021 & 2022 are as follows.

- All students must take end-of-course exams:
 - Algebra I and Geometry
 - Biology
 - American History and American Government
 - English I and English II
- Meet one of the following three:
 - Earn a cumulative score of 18 Graduation Points on seven end-of-course exams as set by the State Board of Education. Students must earn at least 4 cumulative points in Mathematics, 4 cumulative points in ELA and 6 cumulative points in Social Studies and Science combined.
 - Earn a "remediation-free" score on a nationally recognized college admission exam such as ACT or SAT during junior year. More information to follow.
 - Earn a State Board of Education-approved, industry-recognized credential or a state-issued license for practice in a career and achieve a score that demonstrates workforce readiness and employability on a job skills assessment.

Additional Ohio Department of Education graduation requirements for the Classes of 2023 & 2024 require students to demonstrate "competency" and "readiness."

Demonstrating "Competency"

- **All students must take end-of-course exams:**
 - Algebra I and English II (**students must retake the test one time if a passing score isn't received**)
- Student's demonstrate competency as defined by the Ohio Department of Education, by meeting one of the following criteria:
 1. Earn a passing score on both the Algebra I and English II end-of-course exams
 2. Career Experience and Technical Skills - Students must complete two demonstrations to show competency, at least one of which must be foundational.
 - Foundational:**
 - a. Earn a score of proficient or higher on three or more WebXexams in a single career pathway;
 - b. Earn an approved industry-recognized credential;
 - c. Complete a pre-apprenticeship in the student's chosen career field or show evidence of acceptance into an apprenticeship program (for students ages 18 and older) after high school.
 - Supporting:**
 - a. Complete a 250-hour work-based learning experience with evidence of positive evaluations;
 - b. Earn the workforce readiness score on WorkKeys; or
 - c. Earn the OhioMeansJobs Readiness Seal.
 3. Enlist in the United States Military
 4. Earn credit for one college-level math and/ or college-level English course through Ohio's free College Credit Plus program.

Demonstrating "Readiness"

In addition to fulfilling curriculum requirements and earning the competency requirements listed above, students also must show they are prepared for college or careers. Ohio law created 12 seals for students to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions. Each seal allows students to demonstrate knowledge and skills essential for future success. Students will demonstrate readiness by earning at least two diploma seals, **one of which must be state defined**. Seals help students develop an array of critical skills that are valuable to them as they transition to the next steps after high school.

State Defined Seals

Ohio Means Jobs Readiness Seal
 State Seal of Biliteracy
 Industry-Recognized Credential Seal
 College-Ready Seal
 Military Enlistment Seal
 Citizenship Seal
 Science Seal
 Honors Diploma Seal
 Technology Seal

Locally Defined Seals

Community Service Seal
 Fine and Performing Arts Seal
 Certified Student Engagement Seal

*For more information about graduation seals, see the Ohio Department of Education website (education.ohio.gov)

COMMON DEFINITION OF THE ARTS

The members of the Council of Admission Officers of the State Assisted Universities and Community Colleges in Ohio have obtained agreement for the common definition for the arts requirement. Although some institutions will accept courses other than those listed below, we wish to stress that it generally would not be sound advice for students to take only those other courses. All of the state-assisted universities which have an arts requirement urge you to use the common definition. In this way you can be assured that no matter which institution of higher learning you might choose, your one (1) credit arts requirement will be met. essential content in the following:

1. Creating or performing works of art
2. Understanding the history of the arts, and/or
3. Responding to the aesthetic features of works of art.

All of the Ohio state-assisted institutions with an arts requirement will accept the following courses:

- Visual Arts, including drawing and painting, printmaking, sculpture and other three-dimensional media, photography, and cinema.
- Music, including vocal, instrumental, theory, and composition. Theatre and Drama, including performance and production.
- Dance, including performance and choreography.
- Multi-Disciplinary Arts, including courses with two or more arts areas, aesthetic education, humanities, and arts appreciation.

COMMUNITY SERVICE PROGRAM

COMMUNITY SERVICE PROGRAM PHILOSOPHY

The purpose of the community service program at Cuyahoga Heights High School is to aid in the development of the student's attitudes, values, philosophy, and character as it relates to service to others. The experiences assist the individual in making a

positive and conscientious contribution toward people, the environment and in the development of a personal healthy mental attitude and life-style. The community service requirement will support the student's path leading to a more satisfying, caring, and productive life — one which makes a difference not only for the student but also for others in the world.

COMMUNITY SERVICE PROGRAM REQUIREMENTS

The Community Service Committee, composed of students, parents, teachers, administrators, and Board members, created a program supportive of volunteerism in the local and greater community. Periodically, the committee convenes to review and revise as needed and make recommendations to the Board of Education of any changes to the Community Service Program.

Students are required to complete a minimum of 60 hours in a Community Service Program prior to graduation.

The aim is to provide high school students with the opportunity for experiential services and learning activities in the local community and/or greater Cleveland community, with the intent of developing a caring spirit and supportive attitude toward community concerns and needs as well as sensitivity to the human condition.

Ninth grade students may begin their community service experience in the summer between the 8th and 9th grade.

COMMUNITY SERVICE PROGRAM FORMAT

1. Students are required to complete a minimum of sixty (60) hours of community service as a requirement for graduation.

- a. Students can accumulate up to a total of 30 hours in any school activity and/or school organizations **before or after school only (not during the school day)**, including:
 1. Assisting with athletics, i.e., line judge, chain gang
 2. Tutoring of students in the ES, MS, and HS (not acceptable during school hours)
 3. Class activities or special projects by student organizations which result in outreach to needs in the greater community, i.e., food drive, clothing collection, toys for kids
 4. Assisting with school plays and club activities
 5. NOTE: Students will not be allowed to "double dip," in the event a student organization has its own community service requirement such as NJHS and NHS.
- b. The number of hours for transfer students will be prorated based on their enrollment date. **The student's allowable hours for school/school organizations will be 50% of the total hours required.**

2. If a student has not completed the community service requirement by a specified date prior to graduation, he/she will not be permitted to graduate. The requirement must be fulfilled, **by May 1 of his/her senior year.**

3. Students must provide their own transportation to and from their community service site(s).

- a. Periodically, the school will schedule community service activities for which students may sign-up. "Drive-time" is not included in service hours.

4. A list of prospective opportunities is available to students as a guideline for possible community service. Students will determine an area of focus that is of interest to them.

5. Community service can take place:

- ❖ After school
- ❖ Week-ends
- ❖ Summer
- ❖ Vacations during the school year

6. ALL COMMUNITY SERVICE EXPERIENCES SHOULD BE APPROVED BY THE COMMUNITY SERVICE COORDINATOR PRIOR TO THE EXPERIENCE.

7. Students will be required to document all of their service hours, per a representative supervisor's signature on a "time-sheet." All information on the form must be completed— or it will not be accepted.

8. Hours may be given only for service for which a student is not paid.

STUDENTS CANNOT DO COMMUNITY SERVICE FOR A POSITION THAT IS NORMALLY PAID. COMMUNITY SERVICE HOURS WILL NOT BE GIVEN FOR ANY WORK/ACTIVITY FOR WHICH SOMEONE IS USUALLY PAID.

9. Hours CANNOT be performed for family, relatives, friends, companies, businesses, shops or profit-making organizations.

10. All eighth grade students will be required to participate in a general orientation program that will fully explain the Community Service Program policies, procedures, and options, and also the responsibilities of the individual student, the agency/individual, and the school.

11. Students may be requested to have a personal interview with the program coordinator to determine acceptable community service activities.

12. Students may complete the requirement as soon as they desire.

13. Students may be requested to participate in periodic workshops and/or meetings that relate to the community service program.

14. Students represent Cuyahoga Heights High School and must conduct themselves respectfully and with courtesy and concern for all persons involved.

STUDENT COURSE LOAD

All students must be enrolled in courses which total at least 5-1/2 credits per year. The vast majority of students carry 6 to 6-1/2 credits per year. **Students cannot schedule more than two study hall periods per day.**

Cuyahoga Heights Schools require a minimum of 22 credits for graduation. Students are expected to successfully complete all courses for which they are scheduled. Non-completion of scheduled courses may result in a failing grade and a loss of credit.

A student's course load plays an important role in determining class percentile rank and grade point average.

- For example, a student who schedules the maximum allowed study halls (2) limits the number of quality points earned each year since no grade or credit is assigned to enrollment in study hall.

Additionally, a course choice impacts the number of quality points a student can earn each year.

- For example, a student who enrolls in Honors or AP courses will earn more quality points because of the assigned weighted value.
- Remember, all students must complete 0.75 credits of physical education for graduation. A full year physical education class receives a 0.50 credit; thus, earning half of the quality point value. Therefore, choosing additional elective physical education courses will also impact credits earned and quality points.

STUDENT SCHEDULE CHANGES

You will soon be asked to make a personal course commitment for the upcoming school year. The final responsibility for this commitment will be YOURS. Therefore, before you select your individual courses, it is strongly advised that you seek advice from as many sources as possible — parents, teachers, counselors, and fellow students who have already completed a similar course of study.

The registration process at CHHS begins in January. Students and parents are encouraged to thoroughly discuss course offerings and review the student's four-year plan before making actual selections.

Course change requests will only be made for the following reasons:

1. Computer error

2. Summer school attendance
3. Failure of a prerequisite course
4. College Credit Plus enrollment option program
5. Schedule overload (students must have at least 6 classes)

Students who have a course change that fits the above reasons must fill out a "Schedule Error" form and turn it into the high school principal.

Students wishing to add a class must do so within the first five days of the semester. Courses will be added if the student is replacing a study hall and if space permits. If an added course requires moving one or more courses, the principal will review the request and make a decision.

PLEASE NOTE: It is hoped that we will be able to offer every course that is listed in this booklet. However, it is possible that an elective course may not be offered due to a lack of adequate student interest or appropriate staffing. The high school principal will make such a determination, and all students who have signed up for a class that has been cancelled will have the opportunity to select

COURSE WAIVERS

If a student elects to take an academic course for which he/she was not recommended, he/she must complete a waiver form obtainable in the Guidance office. The waiver **must** be signed by the student, parent, and teacher. The waiver **must** be approved by the principal, counselor and teacher, and returned to the Guidance Office.

SELECTION OF HONORS/ADVANCED PLACEMENT

Honors Courses

Before a student selects an Honors class, he/she must consider the expanded coursework, participation in athletics, co-curricular involvement, work, and other related activities.

We encourage all students to challenge themselves when selecting courses. Teacher recommendations, test scores and earned grades are criteria for admission to the 9th, 10th, and 11th grade Honors courses. The course curriculum is teacher developed based on state and national standards. It is designed to engage students in higher-level thinking, critical analysis and creative thinking. The coursework is varied and, often, independent projects are offered as assessment. Honors classes are required if a student wishes to move to the AP level in tenth, eleventh and twelfth grades.

Advanced Placement (AP)

Before a student selects an AP class, he/she must consider the expanded coursework, participation in athletics, co-curricular involvement, work, and other related activities.

Students who have been successful in Honors courses are encouraged to enroll in AP courses. AP courses follow a national curriculum leading to the AP exam in May where students across the country compete with one another. The curriculum is rigorous. AP teachers receive special training with this most challenging curriculum. Students scoring 4 or 5 typically receive college credit for the specific course.

College Credit Plus (CCP)

A special program entitled College Credit Plus allows students to take courses through a local college and receive high school and college credit. In many cases, college credit may be earned no cost to the student.

GRADE POINT CALCULATION

Grade point averages allow us to display a student's grades in a numerical format, i.e., 2.75, 3.50. Just as most schools in the nation, Cuyahoga Heights High School uses a 4.00 system.

A =	4.00 quality points
B =	3.00 quality points
C =	2.00 quality points
D =	1.00 quality points
F =	0.00 quality points

In order to be as precise as possible, we need to assign weights to the plus and minus grades also--by adding or deducting 0.30 quality points from the standard grade. Example: C+ = 2.30 quality points, C- = 1.70 quality points.

Calculating a student's grade point average only utilizes a student's "final grade" for a course. Final grades for courses are determined by the following quality point tables.

Final grade quality point table for semester courses.

Grade	Low Value	High Value
A	19.15	20.00
A-	17.49	19.14
B+	15.83	17.48
B	14.17	15.82
B-	12.51	14.16
C+	10.85	12.50
C	9.19	10.84
C-	7.53	9.18
D+	5.87	7.52
D	4.21	5.86
D-	3.00	4.20
F	0.00	2.99

Final grade quality point table for year long courses.

Grade	Low Value	High Value
A	19.15	20.00
A-	17.49	19.14
B+	15.83	17.48
B	14.17	15.82
B-	12.51	14.16
C+	10.85	12.50
C	9.19	10.84
C-	7.53	9.18
D+	5.87	7.52
D	4.21	5.86
D-	3.00	4.20
F	0.00	2.99

To calculate a grade point average, you first need to know the number of credits taken and also the amount of quality points assigned to the grade earned in each course. The higher the grade, the more quality points earned.

The actual formula used to calculate the grade point average is quite simple.

$\text{GPA (Grade Point Average)} = \text{Quality Points Earned} / \text{Credits Attempted}$

Once you have totaled all of the quality points, then divide this number by the number of credits taken to determine your grade point average.

For example:

3.00 GPA = 7.50 Total Quality Points / 2.50 Credits Attempted or

3.38 GPA = 11.00 Total Quality Points / 3.25 Credits Attempted

QUALITY POINTS

Grade	1 Credit	1/2 Credit	1/4 Credit	1/8 Credit
A	4.00	2.00	1.00	0.50
A-	3.70	1.85	0.93	0.46
B+	3.30	1.65	0.83	0.41
B	3.00	1.50	0.75	0.37
B-	2.70	1.35	0.68	0.34
C+	2.30	1.15	0.58	0.29
C	2.00	1.00	0.50	0.25
C-	1.70	0.85	0.43	0.21
D+	1.30	0.65	0.32	0.16
D	1.00	0.50	0.25	0.12
D-	0.70	0.35	0.18	0.09
F	0.00	0.00	0.00	0.00

Student A - Sample Calculation

Subject	Grade Earned	Credits Attempted	Quality Points
English 1	B+	1.00	3.30
Algebra 1	C	1.00	2.00
Art 1	B-	1.00	2.70
French 1	A-	1.00	3.70
Science	C+	1.00	2.30
Phys. Ed.	B	0.50	1.50
		5.50	15.50

Grade Point Average = 2.81

Class Rank

Beginning with the Class of 2020, class rank will no longer be reported to each student or on transcripts. Student cumulative GPAs will continue to be calculated at the end of the freshman, sophomore and the junior years. It will be recalculated for seniors after seven semesters and upon graduation. However, we will continue to recognize a Valedictorian and Salutatorian at our Commencement Ceremony based on a 50/50 combination of GPA and SAT/ACT Score, with the only tie-breaker being first time cumulative scores on state assessments (on a scale of 1 to 5). Our Valedictorian and Salutatorian will be determined by adding each student's class rank with their corresponding SAT/ACT points (see table below). The student with the lowest total will be recognized as the Valedictorian and the student with the second lowest total will be recognized as the Salutatorian. Of note, SAT/ACT points are determined by a student's highest possible placement on the table below.

ACT Score	SAT Score	Points	ACT Score	SAT Score	Points
36	1600	1	19	980-1010	18
35	1560-1590	2	18	940-970	19
34	1520-1550	3	17	900-930	20
33	1490-1510	4	16	860-890	21
32	1450-1480	5	15	810-850	22
31	1420-1440	6	14	760-800	23
30	1390-1410	7	13	720-750	24
29	1350-1380	8	12	630-710	25
28	1310-1340	9	11	560-620	26
27	1280-1300	10			
26	1240-1270	11			
25	1200-1230	12			
24	1160-1190	13			
23	1130-1150	14			
22	1100-1120	15			
21	1060-1090	16			
20	1020-1050	17			

Sample Calculation

	GPA Rank	ACT Score	SAT Score	Total Points	Class Recognition
Student A	1st (4.23)	26 (11 pts)	1280 (10 pts)	11	
Student B	2nd (4.18)	31 (6 pts)	1200 (12 pts)	8	Salutatorian
Student C	5th (3.89)	34 (3 pts)	1580 (2 pts)	7	Valedictorian

Weighted Grades

Cuyahoga Heights High School reinforces and rewards students who pursue the most difficult academic coursework. This challenging academic schedule enables students to compete for scholarships and college admission with students from other high schools. Cuyahoga Heights awards “grade weights” to those academic classes judged to be the most demanding both in difficulty of subject matter, also class work, projects, and homework.

1. Only classes designated as Honors, Advanced Placement or College Credit Plus will be weighted. These classes must meet demanding criteria in order to be labeled as such. Honors and AP courses are identified and described in detail in the Program of Studies.
2. Grades of A and B in an “Honors” class will receive an additional weight of 0.50. Grades of A and B earned in an “Advanced Placement” class will receive an additional weight of 1.00.
3. Grades of C in an “Honors” class will receive an additional weight of 0.25. Grades of C in an “Advanced Placement” class will receive an additional weight of 0.50.
4. Grade point averages, as well as quality points, will numerically reflect these weights.
5. The following weights are based upon a grade earned in a one credit class:

<u>Grade</u>	<u>AP Courses</u>	<u>Honors Courses</u>
A	5.00	4.50
A-	4.70	4.20
B+	4.30	3.80
B	4.00	3.50
B-	3.70	3.20
C+	2.80	2.55
C	2.50	2.25
C-	2.20	1.95

Athletics

A student who plans to attend an NCAA Division I or II College, or a college with Division I or II athletics, and who plans to participate in athletics at that school must complete a core curriculum of courses in order to be eligible for athletic participation. The core curriculum consists of courses in the following areas:

Division I (16 core courses required)	Division II (16 core courses required)
4 years English	3 years English
3 years of mathematics (Algebra I or higher)	2 years of mathematics (Algebra I or higher)
2 years of natural/physical science (1 year of a lab science class)	2 years of natural/physical science (1 year of a lab science class)
1 year additional English, mathematics or natural/physical science	3 year additional English, mathematics or natural/physical science
2 years of social science	2 years of social science
4 years additional courses from any area above, foreign language or non-doctrinal religion/ philosophy	4 years additional courses from any area above, foreign language or non-doctrinal religion/ philosophy

Test Scores: Division I has a sliding scale of test scores of test scores and grade-point averages. See your counselor for details. Division II has a minimum SAT score of 820 or ACT sum of 68 (total English, mathematics, reading and science scores). NOTE: All SAT and ACT scores must be reported directly to the NCAA Initial-Eligibility Clearinghouse by the tested agency. When registering for the SAT or ACT, use the Clearinghouse code of "9999" to make sure the score is reported directly to the Clearinghouse.

Grade-Point Average: Only core courses are used in the calculation of the grade-point average. Make sure you look at the high school's list of NCAA-approved courses on the Clearinghouse website. See your counselor for your grade-point average and to check if a particular high school course is NCAA approved. To register at the NCAA website, visit www.eligibilitycenter.org.

All students must be determined to be eligible by the NCAA Clearinghouse. This requires an official transcript. There is no other way to determine eligibility. See your counselor about the Clearinghouse.

COLLEGE CREDIT PLUS PROGRAM

A special program entitled *College Credit Plus* allows students to take courses at a local college and receive high school and/or college credit. In some cases, you may be able to earn college credit at no cost to your family. College course work may be taken during the regular school day, in the evening or on the weekends.

NOTE: If you will be in grades 9-12 in the Fall and are interested in this option, you must discuss it with your high school counselor before **March 31, 2020**. If you would like to obtain some information on this program, make an appointment to see your counselor due to spring break and processing deadlines.

CREDIT FLEXIBILITY

In conjunction with Senate Bill 331, students may earn credit through a demonstration of mastery or competency in a specific area. Educational options include travel, distance learning, online programs, independent study and internships.

The student must complete an application and submit it by May 1st for a first semester or year-long course. Students must submit a completed application by November 1st for a second semester course.

A committee of teachers and administrators will review the application, syllabus and assessment and grant final approval or make recommendations for revision. Please schedule a meeting with one of the counselors for more information.

Academic Awards

HONORS DIPLOMA CRITERIA		
<i>Students need to fulfill all but one criteria for either of the Diplomas with Honors</i>		
Subject	High School Academic Diploma with Honors	Career-Technical Diploma with Honors
English	4 units	4 units
Mathematics	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
Science	4 units, including Physics and Chemistry	4 units, including Physics and Chemistry
Social Studies	4 units	4 units
World Language	3 units, including at least 2 units in each language studied	Not counted toward requirements
Fine Arts	1 unit	Not counted toward requirements
Career-Technical	Not counted toward requirements, and may not be used to meet requirements	Now counted in Electives
Electives	Not counted toward requirements	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post secondary credit
Grade Point Average	3.50 on a 4.00 scale	3.50 on a 4.00 scale
ACT/SAT Score (excluding scores from the writing sections)*	27 ACT / 1210 SAT	27 ACT / 1210 SAT
Additional Assessment	Not applicable	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent

CUM LAUDE: The title of Cum Laude will be presented to all seniors with a GPA of 3.00 -3.49 after seven semesters.

MAGNA CUM LAUDE: The title of Magna Cum Laude will be presented to all seniors receiving an Honors Diploma, having participated in the Advanced Placement Program, and with a GPA of 3.50-3.79 after seven semesters.

SUMMA CUM LAUDE: The title of Summa Cum Laude will be presented to all seniors receiving an Honors Diploma, having participated in the Advanced Placement Program, and with a GPA of 3.80 and above after seven semesters.

C HHS Student Course Selections

Directions: For planning purposes, circle all of the courses in which you intend to enroll next year.

ART

Art I (yr)
 Art Foundations (sem)
 Drawing & Painting I (sem)
 Drawing and Painting II (sem)
 Graphic Design (sem)
 Photography I (sem)
 Photography II (sem)
 Ceramics I (sem)
 Ceramics II (sem)
 Art II (yr)
 Art III (yr)
 AP Art Studio (yr)

ENGLISH

English I (yr)
 Honors English I (yr)
 English II (yr)
 Honors English II (yr)
 English III (yr)
 AP English III (yr) (Language & Composition)
 English IV (yr)
 AP English IV (yr) (Literature & Composition)
 Speech (sem)
 Journalism (yr)

FAMILY & CONSUMER SCIENCES

Nutrition & Wellness (sem)
 Regional Foods (sem)
 Child Development (sem)
 Global Foods (sem)
 Fashion Design & Clothing (sem)

WORLD LANGUAGE

Spanish I (yr)
 Spanish II (yr)
 Spanish III (yr)
 Spanish IV (yr)

TECHNOLOGY EDUCATION

Digital & Interactive Multimedia (sem)
 Advanced Computer Apps. (sem)
 Construction Technology (sem)
 Woodworking I (sem)
 Advanced Woodworking (yr)
 Electronics (sem)
 PLTW Computer Science Essentials (yr)
 PLTW Computer Science Principles (yr)

AP CAPSTONE

AP Seminar
 AP Research

HEALTH & PHYSICAL EDUCATION

PE I (yr)
 Health (sem)
 Team Sports (sem)
 Personal Fitness (yr)
 Weight Training (sem or yr)

MATHEMATICS

Algebra I (yr)
 Applied Algebra I and Lab (yr)
 Honors Algebra I (yr)
 Geometry (yr)
 Geometry A and Lab (yr)
 Honors Geometry (yr)
 Algebra II (yr)
 Honors Algebra II (yr)
 Functions, Statistics & Trig (yr)
 AP Statistics (sem)
 AP Calculus AB (yr)
 College Algebra
 College Pre-Calculus

MUSIC

Chorus (yr)
 Band (yr)
 Orchestra (yr)

SCIENCE

Physical Science (yr)
 Biology (yr)
 Honors Biology (yr)
 Chemistry (yr)
 Honors Chemistry (yr)
 Astronomy (yr)
 Genetics (yr)
 AP Biology (yr)
 AP Physics (yr)
 Environmental Science (yr)
 Human Anatomy & Physiology (yr)

SOCIAL STUDIES

World History (yr)
 Honors World History (yr)
 American History (yr)
 Financial Literacy (sem)
 Law I (sem)
 History of Psychology (sem)
 Sociology (yr)
 AP U.S. History (yr)
 AP Psychology (yr)
 AP U.S. Government



ART I

Course #100

Year course / 5 periods per week / 1 credit

Grades 9, 10, 11, 12

Prerequisite: Art Foundations

AIMS: This course is designed as a continuation of Art Foundations. The first semester of this year long course follows the scope and sequence of Art Foundations and becomes Art I in the second semester. This will provide the beginning art student with a more in-depth study of the arts leading to further art studies or portfolio development. For scheduling purposes this class meets the prerequisite for all other art classes at the end of the first semester.

CONTENT: Further exploration of the elements and principles of design through the use of a variety of media combined with historical and cultural aspects of art creation.

ART FOUNDATIONS

Course # 101

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11, 12

Prerequisite: None

AIMS: To expose the beginning student to the design and motivational processes used in the creation of visual artworks to prepare them for other visual art classes.

CONTENT: This exposure will give each student a foundation in the elements of design and prepare them for studies in other art classes. Through the exploration of cultural context and a variety of media, students will solve visual problems resulting in individualistic self expression artworks.

DRAWING AND PAINTING

Course # 110A / 110B

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11, 12

Prerequisite: Art Foundations and Art I

AIMS: Students will continue development of the fundamental skills of design through the practice of various rendering techniques and the application of color theory.

CONTENT: Exploration of various drawing and painting mediums such as graphite, charcoal, ink, watercolor and acrylic. Exposure to a variety of styles and historic movements are used as well as the traditions of still life, figure drawing and landscapes.

GRAPHIC DESIGN

Course # 115

One Semester / 5 periods per week / 1/2 credit Grades 10, 11, 12

Prerequisite: Art Foundations and Art I

AIMS: To learn the basic principles required to solve graphic design problems using industry-standard software and related programs.

CONTENT: Students develop the ability and confidence to determine appropriate successful designs. Demonstrate effective use of color, dominant and subordinate elements, typography, and production skills to make effective design layouts, which meet industry standards.

PHOTOGRAPHY I

Course # 120A (Max. 12)

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11, 12

Prerequisite: Art Foundations and Art I, 35mm SLR (single lens reflex) adjustable camera required (35mm instamatic not acceptable)—student supplies film and papers.

NOTE: Student fee \$15.00

AIMS: This course is designed for the student with no formal photographic experience. The students will become aware of the camera as an art form and a means of expression.

CONTENT: Students will take their own pictures, develop film, and learn enlarging and dark room techniques. In addition to traditional techniques, digital imaging and computer photo and negative manipulation are included. This includes both the fine arts and journalistic approach.

PHOTOGRAPHY II

Course # 120B (Max. 12)

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11, 12

Prerequisite: *Photography I, 35mm adjustable camera required (35mm instamatic not acceptable) — student supplies film and papers.*

NOTE: Student fee \$15.00

AIMS: This course is designed as a continuation of Photography I. There will be added experiences in composition, manipulation of media, and exploration into careers.

CONTENT: Students will take their own pictures, develop film, and learn advanced enlarging and dark room and color techniques. Photo areas include landscapes, portraits, action, still life, and architectural photographs.

CERAMICS I

Course # 125A

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11, 12

Prerequisite: *Art Foundations and Art I*

NOTE: Studio fee \$40.00; student fee may vary.

AIMS: To introduce the student to the creation of 3-Dimensional design using clay in both aesthetic and utilitarian applications.

Students will develop a **sense of understanding that clay is a medium not just for the craft of ceramics, but a vehicle for the fine arts as well.**

CONTENT: Students will be exposed to the production of pottery through the use of several forming techniques including wheel throwing, slab construction and extrusion. Surface treatment is also covered. Historical traditions and contemporary trends will be covered through journal writing.

CERAMICS II

Course # 125B

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11, 12

Prerequisite: *Ceramics I*

NOTE: Studio fee \$40.00; student fee may vary.

AIMS: Continuation of Ceramics I and the creation of 3-Dimensional design using clay in both aesthetic and utilitarian applications. Students will develop a further sense of understanding that clay is a medium not just for the craft of ceramics, but a vehicle for the fine arts as well.

CONTENT: Students will continue exposure to the production of pottery through the use of several forming techniques including wheel throwing, slab construction and extrusion. Surface treatment is also covered. Historical traditions and contemporary trends will be covered through journal writing.

ART III

Course # 136

Year course / 5 periods per week / 1 credit Grades 11, 12

Prerequisite: *Art II*

NOTE: Student fee may vary.

AIMS: To further develop skills previously attained and to better equip the art student for future experiences in art, be it recreational or college study.

CONTENT: Art III is a class for the serious art student interested in developing his/her own artistic style. In depth study will occur in wet, dry, two and three-dimensional media as well as art history, criticism and aesthetics.

ADVANCED PLACEMENT ART STUDIO

Course # 140

Year course / 5 periods per week / 1 credit Grades 12

Prerequisite: *Art III*

NOTE: Teacher recommendation

NOTE: Student fee may vary

AIMS: Advanced Placement Art Studio is a course intended for college bound students. Taken concurrently with Advanced Art, it focuses on building an extensive portfolio in either general media or drawing. Much work is done outside of school with research of pertinent artists and historic periods independently completed by the student.

CONTENT: In addition to the assignments covered in Advanced Art, the A.P. art student will independently explore pertinent themes and styles relevant to the development of a personal visual art expression.

English

NOTE: Students must earn four credits of English to graduate and must pass an entire credit of English before being promoted to the next level of English. If a student fails English during the regular school year, he or she will have to take the class in summer school or online credit recovery before being permitted to take the next English class. Students will not be allowed to take two levels of English at the same time.

NOTE: Qualifying criteria for enrollment in ALL Honors and Advanced Placement English classes are: at least a 82% average in previous English classes, completion of summer reading assignments, permission of the instructor(s). Potential honor students MUST demonstrate initiative, conscientious application, and intellectual curiosity. The screening of candidates will include consideration of CTBS Reading, Language, and Cognitive Skills scores, end of course exams and PSAT when appropriate. Students will also be expected to complete extensive supplementary and/or enrichment assignments. Once enrolled in an Honors or Advanced Placement English class, the student MUST continue to meet all of the above criteria. In addition, the student MUST maintain at least an 82% average in the current Honors or Advanced Placement Class. If a student enrolls in an Honors or Advanced Placement English class without meeting the above criteria, he/she will be placed on probation for the first nine weeks of the class. The student and his/her parents will be required to sign a probationary contract. The student will be removed from the Honors or Advanced Placement class and placed in a regular English class if criteria are not met by the end of the probationary period. Because of the rigor of the Honors and Advanced Placement programs, students must commit to this program. Also, students who are signed up for and enrolled in the Honors and AP classes in the spring are expected to complete all summer reading requirements. Failure to do so will jeopardize the first quarter grade. All essential foundations must be addressed and met prior to a student being allowed to register for Honors or Advanced Placement, if he/she dropped an Honors or AP the previous year(s).

NOTE: At the AP 11 and 12 levels, students are required to take the Advanced Placement exam in May.

NOTE: In fulfilling the state mandate regarding students' college and career readiness, at all levels of English, students will be engaged in a variety of activities designed to reinforce students' school-to-work skills. This includes but is not limited to the resume', mock interviews, and junior job shadow day.

ENGLISH I

Year course / 5 periods per week / 1 credit Grade 9

NOTE: One (1) selection from a required reading list over the summer.

AIMS: To facilitate the use and continued development of basic language skills through speaking, writing, and the interpretation of literature.

CONTENT: Students will study literature, grammar, spelling, vocabulary, speech, and writing. A strong emphasis is placed on Ohio Learning Standards in reading, writing, speaking, and language.

STATE ASSESSMENT: ELA I, Graduation Requirement

ENGLISH II

Year course / 5 periods per week / 1 credit Grade 10

NOTE: One (1) selection from a required reading list over the summer.

AIMS: The aims of English II are as follows: to aid the student in his or her development of effective reading techniques in oral and written communication; to analyze literary works in order to demonstrate the understanding of the characteristics of selected literary movements; to identify the characteristics and intellectual problems of movements of literature, and to instill an appreciation for language arts.

CONTENT: English II covers a survey of world literature through selected novels, short stories, poetry, mythology, plays, films, and nonfiction. A strong emphasis is put on the Ohio Learning Standards in reading, writing, speaking, and language.

STATE ASSESSMENT: ELA I, graduation requirement

HONORS ENGLISH I

Year course / 5 periods per week / 1 credit Grade 9

Prerequisite: At least an 82% average in Accelerated/Advanced English grades 7 and 8, and permission from the instructor.

Students will be required to read a minimum of two (2) selections from a required reading list during the summer.

AIMS: This course is geared toward the college bound student. An advanced approach will be utilized to explain the student's capacity, competence and efficiency in the areas of usage, writing and literature.

CONTENT: This course will provide the student with an in-depth and analytical study of major authors of prose and verse in the context of the chief literary modes and traditions. Additionally, students will complete a variety of essays and a short research paper. Vocabulary development and preparation for the ACT/SAT will be included. This course will serve as the foundation for Honors English II.

STATE ASSESSMENT: ELA I, graduation requirement

HONORS ENGLISH II

Year Course / 5 periods per week / 1 credit Grade 10

Prerequisite: At least an 82% average in Honors English I. Permission of the instructor. Students will be required to read a minimum of three (3) selections from a required reading list during the summer, and respond to reading in essays.

AIMS: This course is geared toward the college bound student. An advanced approach will be utilized to expand the student's capacity, competence, and efficiency in the areas of usage, writing, analysis, and literature.

CONTENT: This course will provide the student with an in-depth and analytical study of major authors of prose and verse in the context of the chief literary modes and traditions. Additionally, students will complete a variety of essays and a short research paper. Vocabulary development and preparation for the ACT/SAT will be included. This course will serve as the foundation for both Advanced Placement English III and Advanced Placement English IV.

STATE ASSESSMENT: ELA II, graduation requirement

ENGLISH III

Year course / 5 periods per week / 1 credit Grade 11

NOTE: One (1) selection from a required reading list over the summer.

AIMS: The aims of English III are to use composition as a means of communication; to develop critical and responsible thinking; to grow in analysis and composition skills; to recognize the concepts of good usage; to develop an understanding and appreciation of various literary forms such as the short story, novel, and poetry; and to develop critical reading of fiction and nonfiction, classic and contemporary works.

CONTENT: English III places an emphasis on composition, vocabulary, speech, and American literature. A strong emphasis is placed on the Ohio Learning Standards in reading, writing, speaking, and language.

AP ENGLISH III - LANGUAGE AND COMPOSITION

Year course / 5 periods per week / 1 credit Grade 11

NOTE: Student fee

Prerequisite: At least an 82% average in Honors English II and permission from the instructor. Students will be required to read a minimum of four (4) selections from a required list during the summer.

AIMS: This course is geared toward the college bound student. An advanced approach will be utilized to expand the student's capacity, competence, and efficiency in the areas of usage, writing, analysis, and literature. Upon completion of the course, students will have the opportunity to take the AP Language and Composition exam.

CONTENT: This course will provide the student with an in-depth and analytical study of the major American writers of prose and verse in the context of the chief literary modes and traditions of their ages. Students will complete a variety of critical essays which will gauge their growth in analysis and composition skills. Practice and preparation for ACT/SAT and AP exams also will be included. Vocabulary development will continue. Students should be prepared to assume a college level work load so as to meet advanced expectations. This course will serve as a foundation for Advanced Placement English IV.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

ENGLISH IV

Year course / 5 periods per week / 1 credit Grade 12

Prerequisite: One (1) selection from a required reading list over the summer.

AIMS: Geared toward both the college bound and workforce bound student, this course will help to expand the student's capacity, competence, and efficiency in the areas of usage, writing, and literature.

CONTENT: Literature study will focus on British and world writers of prose, poetry, and drama. Mechanics, grammar, usage, and vocabulary will be applied to various styles and purposes of writing, including a research paper. A strong emphasis will be placed on the Ohio Learning Standards in reading, writing, speaking, and language.

AP ENGLISH IV - LITERATURE & COMPOSITION

Course #240

Year course / 5 periods per week / 1 credit Grade 12

NOTE: Student fee,

Prerequisite: At least an 82% average in previous Honors English courses and successful completion of Advanced Placement English III and permission from the instructor. Students will be required to read a minimum of four (4) selections from a required reading list during the summer.

AIMS: This course is geared toward the college bound student. An advanced approach will be utilized to expand the student's capacity, competence, and efficiency in literature, grammar, writing, reading, and critical thinking.

CONTENT: This course, organized as a college freshman English course, will provide the student with an in-depth and analytical study of the major writers of prose, drama, and verse. In addition to the literary focus, students will participate in critical discourse and Socratic seminars and complete a variety of critical essays which will prepare them to take the AP Literature and Composition exam. All students will have the opportunity to take the AP Literature and Composition exam in May Semester Course / 5 periods per week.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

SPEECH

Course #205

Semester Course

Grades 9, 10, 11, 12

Prerequisite: none

AIMS: This course will help students develop skills necessary to communicate oral messages effectively and to utilize a variety of presentation methods designed to enhance oral presentations. Students will prepare and deliver multiple oral and multimedia presentations.

CONTENT: This program will focus on various modes (i.e. impromptu, extemporaneous, and memorized) and types (i.e. informative,

per- suasive, special occasion) of speeches, methods of organizing ideas, and communicating oral messages to appropriate listeners and situations through a variety of technologies.

JOURNALISM

Course #206

Year Course / 5 periods per week / 1 credit Grades 9, 10, 11, 12

Prerequisites: At least a 2.3 GPA

AIMS: This course will provide students with a comprehensive picture of the professional print media, thus creating a sound basis for critical reading, viewing, and listening. Journalistic writing will be approached as a form of composition, thus enabling students to further develop their writing skills while presenting information in an objective, coherent manner.

CONTENT: Students will learn about the following in a workshop environment: news values, interviewing, feature writing, sports writing, op-ed writing, characteristics of high school publications, elements of layout and design, marketing and distribution considerations, social responsibility of journalists, and special 21st century concerns in journalism. An emphasis will be placed on gaining experience while developing professionalism. Students will work on the newspaper publication *The Chieftain*.

FAMILY & CONSUMER SCIENCE

NUTRITION AND WELLNESS

Course # 400

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11

NOTE: \$50 fee for supplies

AIMS: To gain knowledge in food selection and wellness by applying preparation methods by properly using tools and measurement. Students will use various cooking methods, select recipes and gain nutritional information from foods.

CONTENT: Identify nutritional needs and the elements of wellness by preparing and serving foods.

REGIONAL FOODS

Course # 401

One Semester / 5 periods per week / 1/2 credit Grades 10, 11, 12

NOTE: \$50 fee for supplies

AIMS: To develop an appreciation of food preparation and recipes of regional foods from the United States. Understand cuisines of the United States by planning, preparing and tasting numerous foods.

CONTENT: Plan, prepare, and serve meals by special methods and techniques of regional foods of America. Plan, prepare and appreciate the seven regional cuisines of the United States (Northeast, South, Midwest, Southwest, West Coast, Alaska, and Hawaii).

CHILD DEVELOPMENT AND PARENTING

Course # 403

One Semester / 5 periods per week / 1/2 credit Grades 10, 11, 12

AIMS: Students will discover the needs of infants and young children and realize how parents can meet their needs for growth and development. Students will understand the difference between parenting and parenthood through skills needed to care for, nurture, and guide children from infancy through adolescence.

CONTENT: Understand the "how's" and "why's" of child development, child care and parenting. Relate the knowledge of healthy growth and development while promoting self-esteem and self-discipline in a positive parent-child relationship.

GLOBAL FOODS

Course # 404

One Semester / 5 periods per week / 1/2 credit Grade 11-12

NOTE: \$50 lab fee

AIMS: To develop an appreciation and knowledge by comparing cuisines, ingredients, and preferred cooking methods of various cultures. Students will apply advanced cooking techniques by using cultural perspectives of various foods.

CONTENT: Plan, prepare, and serve meals by special methods and techniques from around the world.

WORLD LANGUAGE

SPANISH I

Course # 301

Year course / 5 periods per week / 1 credit Grades 9, 10, 11, 12

Prerequisite: None for grades 9-12

Aims: To develop the four basic skills of the target language. Understanding, speaking, reading and writing to introduce Spanish Culture and language; to achieve proficiency by means of traditional instruction and comprehensible input.

CONTENT: Communication and culture on a novice level with oral and written practice.

SPANISH II

Course # 302

Year course / 5 periods per week / 1 credit Grades 9, 10, 11, 12

Prerequisite: Spanish I

AIMS: To continue the development of the four basic skills of the target language—understanding, speaking, reading, and writing; to continue instruction of the Spanish culture and language; to continue to achieve fluency by means of traditional instruction and comprehensible input.

CONTENT: Communication and culture on a novice-high to intermediate level through oral, written, and presentational practice.

SPANISH III

Course # 303

Year course / 5 periods per week / 1 credit Grades 11, 12

Prerequisite: Spanish II and teacher recommendation

AIMS: To continue the development of the four basic skills of the target language — understanding, speaking, reading, and writing; to

continue instruction of the Spanish culture and language; to continue to achieve higher level fluency by means of traditional instruction and comprehensible input.

CONTENT: Communication and culture on an intermediate-high level through oral, written, and presentational practice.

SPANISH IV

Course #304

Year course/5 periods per week/1 credit

Grades 11, 12

Prerequisite: Passage of Spanish III

AIMS: To study samples of Spanish literary, artistic, musical and other cultural contributions; to develop fluency in spoken and written language; to express ideas with a command of the target language; to enhance appreciation of the role of Spanish-speaking countries in the modern world

CONTENT: Communication and culture on a High level; focus on fluency of expression

HEALTH & PHYSICAL EDUCATION

PHYSICAL EDUCATION I

Course # 350

Year course / 5 periods per week / 1/2 credit Grade 9,10, 11, 12

NOTE: All Physical Education classes are in compliance with Title IX Federal Law.

AIMS: To help students develop a total body fitness. Basic skills in all activities are taught at this time with increased emphasis on team play. An emphasis on fitness is also a focus in this class as students will be introduced to the weight room and will perform other activities related to fitness.

HEALTH

Course # 360

One semester/5 periods per week/1/2 credit Grade 10

NOTE: All Physical Education classes are in compliance with Title IX Federal Law.

AIMS: To help students develop a total body fitness. Basic skills in all activities are taught at this time with increased emphasis on team play. An emphasis on fitness is also a focus in this class as students will be introduced to the weight room and will perform other activities related to fitness.

CONTENT: Body systems, disease and their effect on one's health make up the core of the course. C.P.R. is also included.

TEAM SPORTS

Course # 365

One Semester / 5 periods per week / 1/4 credit Grades 9, 10, 11, 12

Prerequisite: Prior competitive sport participation is encouraged.

AIMS: Major seasonal sports will be played to demonstrate and improve each student's individual skills. Students will also work in teams and assess their roles in leadership, team play and sportsmanship.

CONTENT: Through team play, students will participate in each season's sport leading to tournament play. A student's individual physical conditioning plays a key role in team play.

PERSONAL FITNESS

Course # 370

One Semester / 5 periods per week / 1/4 credit Grades 9, 10, 11, 12

AIMS: Maintaining a fit body and a healthy diet are essential components of wellness. Students will learn how to manage their time and make good choices by designing an individual fitness plan.

CONTENT: Working to maintain a healthy and fit body is the goal of this class. Students will design a program utilizing the fitness center, weight room and swimming pool. They will complete weekly workout schedules and submit them to the teacher. Their progress will be monitored so that adjustments can be made to their overall fitness plan.

ATHLETIC WEIGHT TRAINING

Course # 375

One Semester / 5 periods per week / 1/4 credit Grades 9, 10, 11, 12

AIMS: Designed for the student athlete participating in extracurricular athletics or students looking to improve overall fitness level. This course will focus on the student athlete participating in weight training, conditioning, and advanced skills. This course will also provide the student athlete with a deeper knowledge of sports and training techniques.

CONTENT: This course is structured to prepare the student-athlete for specific extra-curricular competition. Emphasis will be placed on individual improvement and excellence as well as the team concept for success.

MATH

	PATHWAY A	PATHWAY B	PATHWAY C	PATHWAY D	All Courses
MS	Honors Algebra 1 & Honors Algebra 2	Honors Algebra 1	Math 8	Math 8	with Prerequisites and Teacher Recommendation
YEAR 1	Honors Geometry	Honors Algebra 2	Honors Algebra 1 or Algebra 1	Applied Algebra/(1A) and Lab	with Prerequisites and Teacher Recommendation
YEAR 2	CCP College Algebra/CCP Precalculus	Honors Geometry	Honors Geometry* or Geometry*	Algebra 1B and Lab	with Prerequisites and Teacher Recommendation
YEAR 3	AP Calculus AB	CCP College Algebra/CCP Precalculus or Intro to Stats (CCP)/Functions or Consumer Math	Algebra 2	Geometry and Lab	with Prerequisites and Teacher Recommendation
YEAR 4	AP Calculus BC or AP Statistics/CCP Statistics	AP Calculus AB or AP Statistics/CCP Statistics	CCP College Algebra/CCP College Precalculus or *Intro to Statistics (CCP)/ Functions* or Consumer Math**/ Functions**	Algebra 2B	with Prerequisites and Teacher Recommendation
ELECTIVES		AP Calculus AB CCP Statistics/AP Statistics CCP College Algebra/CCP Precalculus	* Courses can be taken concurrently with Honors Algebra 2		

APPLIED ALGEBRA AND LAB

Course # 500A

Year course / 10 periods per week / 1 credit Grade 9

NOTE: Upon the recommendation of the Mathematics Department. Lab component is graded as pass/fail and is taken as an elective course for $\frac{1}{4}$ credit per semester.

AIMS: To understand the structure of the number system; to develop the ability to perform computations with algebraic expressions; to develop the ability to use an analytical approach to mathematical problems; to appreciate the importance of a knowledge of mathematics for intelligent and useful citizenship.

CONTENT: Mathematical symbols; signed numbers; operations with polynomials; first order equation and inequalities and their applications; proportions; products and factors; operations with fractions; functions, relations, and graphs; systems of open sentences in two variables; powers and roots; quadratic equations; data analysis; measurement; basic trigonometry.

STATE ASSESSMENT: Algebra I (after completion of Algebra I course), Graduation Requirement.

ALGEBRA I AND LAB

Course # 501B

Year course /10 periods per week/1 credit Grades 9, 10

NOTE: Upon the recommendation of the Mathematics Department, this course is recommended for students who have had difficulty with algebraic concepts and integers. **This is a two-period class.** This course along with Applied Algebra is the Algebra I curriculum at a more deliberate pace over two years rather than one. Lab component is graded as pass/fail and is taken as an elective course for $\frac{1}{4}$ credit per semester.

AIMS: To understand the structure of the number system; to develop the ability to perform computations with algebraic expressions; to develop the ability to use an analytical approach to mathematical problems; to appreciate the importance of a knowledge of mathematics for intelligent and useful citizenship.

CONTENT: Mathematical symbols; signed numbers; operations with polynomials; first order equations and inequalities and their applications; products and factors; operations with fractions; functions, relations, and graphs; systems of open sentences in two variables; powers and roots; quadratic equations.

STATE ASSESSMENT: Algebra I, Graduation Requirement.

ALGEBRA I

Course # 501

Year course /5 periods per week/1 credit Grade 9

NOTE: Students are urged to purchase a TI-84 graphing calculator.

NOTE: Upon the recommendation of the Mathematics Department, and as determined in part by the Algebra Prognosis test.

AIMS: To understand the structure of the number system; to develop the ability to perform computations with algebraic expressions; to develop the ability to use an analytical approach to mathematical problems; to appreciate the importance of a knowledge of mathematics for intelligent and useful citizenship.

CONTENT: Mathematical symbols; signed numbers; operations with polynomials; first order equations and inequalities and their applications; proportions; products and factors; operations with fractions; functions, relations, and graphs; systems of open sentences in two variables; powers and roots; quadratic equations; data analysis; measurement; basic trigonometry; first order equations and inequalities and their applications; products and factors; operations with fractions; functions, relations, and graphs; systems of open sentences in two variables; powers and roots; quadratic equations.

STATE ASSESSMENT: Algebra I, Graduation Requirement.

HONORS ALGEBRA I

Course # 501H

Year course / 5 periods per week / 1 credit Grade 8, 9

Prerequisite: PreAlgebra and permission of the instructor.

NOTE: Students are urged to purchase a TI-84 graphing calculator

NOTE: Students must maintain an 82% average or have permission of the instructor to remain in the course.

AIMS: To prepare students for the rigorous study of Honors Mathematics at the advanced level. To understand the structure of the number system; to develop the ability to perform computations with algebraic expressions; to develop the ability to use an analytical approach to mathematical problems; to appreciate the importance of a knowledge of mathematics for intelligent and useful citizenship; to develop the ability to apply learned concepts to challenging application and critical thinking questions.

CONTENT: Mathematical symbols; signed numbers; operations with polynomials; first order equations and inequalities and their applications; products and factors; operations with fractions; functions, relations, and graphs; systems of open sentences in two variables; powers and roots; quadratic equations.

STATE ASSESSMENT: Algebra I, Graduation Requirement.

GEOMETRY

Course # 505**Year course / 5 periods per week / 1 credit Grade 10****Prerequisite:** Algebra I

AIMS: To have students enhance their vocabulary with geometric terminology; to understand inductive and deductive reasoning; to promote the ability to think creatively; to introduce the analytical approach to geometric relationships, especially through the use of formal proof. To prepare students for the PARCC Assessment or a test to be determined by ODE.

CONTENT: Basic properties and terminology; methods of reasoning and proofs; congruence; parallels, constructions; polygons; proportional line segments; similar figures; circles; measurement of angles and arcs in a circle; areas of polygons; Pythagorean Theorem; volume of solids; trigonometry; coordinate geometry.

STATE ASSESSMENT: Geometry, Graduation Requirement.

GEOMETRY AND LAB

Course # 505A**Year course / 10 periods per week / 1 credit Grade 12****Prerequisite:** Algebra I and Lab

NOTE: This course will emphasize the everyday applications of Geometry for students who have difficulty in mathematics based on state assessment results and teacher recommendation. **This is a two-period Class.** Lab component is graded as pass/fail and is taken as an elective course for $\frac{1}{4}$ credit per semester.

AIMS: To have students enhance their vocabulary with geometric terminology; to understand inductive and deductive reasoning; to promote the ability to think creatively; to introduce the analytical approach to geometric relationships.

CONTENT: Basic properties and terminology; methods of reasoning and proofs; congruence; parallels, constructions; polygons; proportional line segments; similar figures; circles; measurement of angles and arcs in a circle; areas of polygons; Pythagorean Theorem; volume of solids; trigonometry; coordinate geometry.

STATE ASSESSMENT: Geometry, Graduation Requirement.

HONORS GEOMETRY

Course # 505H**Year course / 5 periods per week / 1 credit Grades 9, 10****Prerequisite:** Honors Algebra I, Honors Algebra II

AIMS: To have students enhance their vocabulary with geometric terminology; to understand inductive and deductive reasoning; to promote the ability to think creatively; to introduce the analytical approach to geometric relationships, especially through the use of formal proof; to explore geometry through the application of this select group's strong algebra Background.

CONTENT: Basic properties and terminology; methods of reasoning and proofs; congruence; parallels, constructions and loci; polygons; proportional line segments; similar figures; circles; measurement of angles and arcs in a circle; areas of polygons; Pythagorean Theorem; volume of solids; trigonometry; coordinate geometry and transformations. This select group is expected to explore topics at a greater depth than the regular section.

STATE ASSESSMENT: Geometry, Graduation Requirement.

APPLIED ALGEBRA II

Course # 510A**Year course / 5 periods per week / 1 credit Grades 11****NOTE:** Students are required to purchase a TI-84 graphing calculator.**Prerequisite:** Algebra I and Lab & Geometry and Lab

AIMS: To better prepare students for college admissions tests, and further math study in high school and beyond; to introduce students to more advanced mathematics and help them determine their future in math and science endeavors.

CONTENT: Students will work with the expressions that define linear, quadratic, exponential, polynomial, rational, radical and trigonometric functions. Students will expand their abilities to model situations and solve equations, including using the properties of logarithms.

HONORS ALGEBRA II

Course # 510H**Year course / 5 periods per week / 1 credit Grades 11****NOTE:** Students are required to purchase a TI-84 graphing calculator.**NOTE:** Students must maintain an 82% average or have permission of the instructor to remain in the course second semester.**Prerequisite:** Honors Algebra I and permission by instructor

AIMS: To prepare students for the rigorous study of Honors Mathematics at the advanced level; to better prepare students for college admissions tests, and further math study in high school and beyond; to help students determine their future in math and science endeavors.

CONTENT: Students will work with the expressions that define linear, quadratic, exponential, polynomial, rational, radical

and trigonometric functions. Students will expand their abilities to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms.

FUNCTIONS, STATISTICS AND TRIGONOMETRY

Course # 525

Semester course / 5 periods per week / 0.5 credits Grades 12

Prerequisite: Geometry, Algebra II and teacher recommendation

NOTE: Students need to schedule this course in conjunction with Consumer Math or College Statistics CCP

AIMS: To better prepare students for college admissions tests; to better prepare students for College Algebra and/or Introductory College Statistics courses. Not intended for students anticipating taking Calculus in the first year of college.

CONTENT: Students will simulate and model data using power, exponential, logarithmic, trigonometric, and probability functions. Students will also practice problem solving skills similar to those encountered on the SAT and ACT College Entrance Exams. This course will also focus on topics addressing financial algebra and literacy.

CONSUMER ALGEBRA

Course # 530

Semester course / 5 periods per week / 0.5 credits Grades 12

Prerequisite: Geometry, Algebra II and teacher recommendation

NOTE: Students need to schedule this course in conjunction with Functions, Statistics, and Trigonometry or College Statistics CCP

CONTENT/AIMS: Ideal for 4th year math students, and will be taught in conjunction with the Functions, Statistics, and Trigonometry Class, or the Introduction to Statistics CCP class. Consumer Algebra applies Algebra 1 concepts in practical business and personal finance contexts. Aligned to Common Core State Standards, Consumer Algebra helps students achieve success by incorporating Algebra 1, Algebra 2 and Geometry topics. This is a mathematics course in which all math is connected to the real world. Consumer Algebra encourages students to be actively involved in applying mathematical ideas to everyday life. It will teach a student to understand the stock market, banking services – checking, savings, interest, etc. – how to apply for a loan, the process of purchasing a car, employment basics, how to do income taxes, how to plan for independent living, how to plan for retirement, and how to prepare a budget.

ADVANCED PLACEMENT STATISTICS

Course # 540

Year course / 5 periods per week / 1 credit Grades 11, 12

Prerequisite: Algebra II with minimum of grade average of 82%.

NOTE: Students will be required to purchase a TI-84 graphing calculator.

AIMS: To introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will engage in an intensive study of hypothesis testing, data analysis, and statistical

CONTENT: Exploring data observing patterns and departures from patterns. Planning a study, survey and experiment deciding what and how to measure. Anticipating patterns in advance producing models using probability and simulation. Statistical inference confirming models.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

ADVANCED PLACEMENT CALCULUS AB

Course # 550

Year course / 5 periods per week / 1 credit Grades 11, 12

NOTE: The AB course will include occasional morning sessions beginning at 6:40 a.m.

NOTE: Students will be required to purchase a TI-84 graphing calculator

Prerequisite: Permission of the instructor

NOTE: Students will receive proper and sufficient instruction to enable them to take the Advanced Placement Calculus Examination in May.

AIMS: To present elementary calculus to the qualified student whose primary area of interest is one requiring its study. To develop an awareness of the necessity of proof and rigor in mathematics through the use of free-response (essay) problems.

CONTENT: Limits, continuity, differentiability, the derivative, applications of integrals, techniques of integration, the definite integral, transcendental functions, slope fields.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

ADVANCED PLACEMENT CALCULUS BC

Course # 560**Year course / 5 periods per week / 1 credit Grades 12**

NOTE: Students will be required to purchase a TI-84 graphing calculator

Prerequisite: An average of 82% or better in AP Calculus AB or permission of the instructor

NOTE: Students will receive proper and sufficient instruction to enable them to take the Advanced Placement Calculus Examination in May.

AIMS: To present elementary calculus to the qualified student whose primary area of interest is one requiring its study. To develop an awareness of the necessity of proof and rigor in mathematics through the use of free-response (essay) problems.

CONTENT: Techniques of integration, infinite series, parametric equations, polar equations, vector-valued functions, differential equations.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

COLLEGE ALGEBRA - COLLEGE CREDIT PLUS

Course #MTHM 171

Year course / 4 periods per week / 1.33 HS credit

NOTE: Students will be required to purchase a TI-84 graphing calculator.

Prerequisite: Course placement policy: Satisfactory placement assessment in mathematics.

Study of algebraic functions, equations, systems of equations, inequalities, matrices, partial fractions, exponential and logarithmic functions. Designed primarily for the calculus-bound student. Graphing calculator required. Mathematics Core Course.

COLLEGE STATISTICS - COLLEGE CREDIT PLUS

Course # MTHM 168

Semester class / 5 periods per week / 1 HS credit Grades 11, 12

NOTE: Students will be required to purchase a TI-84 graphing calculator.

Prerequisite: Grade of C or better in MTHM 171 and MTHM 172 or 3 years high school college-preparatory mathematics and satisfactory placement assessment.

This course provides a non-calculus based introduction to statistical thinking and statistical methods. The topics discussed in the course include: data collection, data description, basic probability, sampling distributions, probability distributions, confidence intervals and hypothesis tests. An emphasis is placed on using technology to solve problems involving real data and hands-on projects are used throughout the course.

COLLEGE PRE-CALCULUS - COLLEGE CREDIT PLUS

Course #MTHM 172

Year course / 3 periods per week / 1 HS credit Grades 11, 12

NOTE: Students will be required to purchase a TI-84 graphing calculator.

Prerequisite: Grade of C or better in MTHM 171 or 3-1/2 years high school college-preparatory mathematics and satisfactory placement assessment.

For the calculus-bound student. A study of trigonometric functions and their graphs; trigonometric identities and equations; conic sections; polar and parametric equations; mathematical induction; and the Binomial Theorem. Graphing calculator required. Mathematics Core Course.

*When signing up for this class, students must also register for AP Statistics, Functions or Consumer Math for the alternative semester

**A student may register for Honors Geometry and Honors Algebra II in the same year to enter the Honors pathway, provided he/she has the prior approval of the Math instructor and a guidance counselor.

MUSIC

CHORUS

Course #595

Year course / 5 periods per week / 1 credit

NOTE: 3 periods per week option is for students participating in more than one musical group that meets the same period

Grades 9, 10, 11, 12

NOTE: Open to all students. Auditions for voice placement. Some after school and evening re- hearsals and performances are required.

AIMS: To provide an enjoyable singing experi- ence for all interested students; to increase the sen- sitivity of each student to good music; to aid in the development of maturing voices; to foster greater skill in reading and understanding music.

CONTENT: Singing a varied selection of choral literature from all periods of music history.

BAND

Course #596

Year course / 5 periods per week / 1 credit

NOTE: 3 periods per week option is for students participating in more than one musical group that meets the same period

Grades 9, 10, 11, 12

NOTE: Open to all students, beginning as well as those previously trained on a band instrument. Training may include school music lessons, private music lessons, playing in the elementary and/or middle school band.

NOTE: Marching Band is mandatory for all high school band students. After-school rehearsals are required during marching season.

AIMS: To increase musical sensitivity and under- standing of each student through the use of good music and active participation in rehearsals and performances.

CONTENT: Master works to program music.

ORCHESTRA

Course #597

Year course / 5 periods per week / 1 credit NOTE: 3 periods per week option is for students participating in more than one musical group that meets the same period

Grades 9, 10, 11, 12

NOTE: Open to all students; including beginners. The usual background involves string training in elementary and/or middle school. Reasonable effort and out-of-school practice is required. Some after school rehearsals may be required.

AIMS: To develop individual and ensemble skills, to increase musical sensitivity and understanding, and to broaden appreciation for various musical styles. Note: Piano is not included in the curricular content of this course.

CONTENT: A variety of ensemble and orchestral music of different periods and styles.

NOTE: Providing that scheduling permits, students may enroll in more than one performing group. Permission and/or auditions may be required.

BAND/ORCHESTRA COMBO

Course #596X/597X

Year course

5 periods per week:

2-3 periods of Band each week

2-3 periods of Orchestra each week 1 credit total earned

SCIENCE

	PATHWAY A		PATHWAY B	PATHWAY C
MS	Advanced Science 8	with Prerequisites	Science 8	Science 8
YEAR 1	Honors Biology	with Prerequisites	Physical Science	Physical Science
YEAR 2	Honors Chemistry	with Prerequisites	Biology or Honors Biology	Biology
YEAR 3	Advanced Placement Biology or Advanced Placement Chemistry or AP Physics or Honors Physics or Astronomy	with Prerequisites	Chemistry or Honors Chemistry or Astronomy	Environmental Science
YEAR 4	Advanced Placement Biology or Advanced Placement Chemistry or AP Physics or Honors Physics or Astronomy	with Prerequisites	Advanced Placement Biology or Advanced Placement Chemistry or Honors Physics or Astronomy or Elective	Elective, if desired
ELECTIVES	Genetics (1 year) Anatomy & Physiology (1 year) Astronomy		Genetics (1 year) Anatomy & Physiology (1 year) Environmental Science Astronomy	In this Pathway, Year 4 Science is optional.
NOTE: Three (3) Science credits are required for graduation.				

PHYSICAL SCIENCE

Course #600

Year course / 5 periods per week / 1 credit/ Grade 9

NOTE: \$10.00 lab fee required.

NOTE: To provide a foundation in the areas of chemistry, physics, and Earth & space sciences.

AIMS: Atoms and the periodic table, chemical bonds, structure of matter, math concepts as they relate to science, Newton's Laws, energy, weather, rocks and minerals, astronomy, and biology topics.

BIOLOGY

Course # 620

Year course / 6 periods per week / 1 credit Grade 10

Prerequisite: Physical Science

NOTE: \$10.00 lab fee required.

AIMS: To provide students with the basic concepts in biology while developing inquiry skills, lab techniques and reports.

CONTENT: Students will learn about ecology, taxonomy, cell biology, heredity, evolution, plant and animal diversity. Laboratory work, multimedia, and laboratory investigations are used.

STATE ASSESSMENT: Biology, Graduation Requirement

HONORS BIOLOGY

Course # 620H

Year course / 6 periods per week / 1 credit Grade 9, 10

Prerequisite (9th Grade): Completion of Honors Algebra I with an 82% average or higher and/or teacher recommendation.

Prerequisite (10th Grade): Honors Algebra I with an 82% average or higher and/or teacher recommendation.

NOTE: \$10.00 lab fee required.

AIMS: To give a solid foundation to high school biology and provide a wide range of field and laboratory experiments. To prepare the student for AP laboratory work, field trips, speakers, reports, demonstrations, technology and a variety of assessments will be included.

STATE ASSESSMENT: Biology, Graduation Requirement

CHEMISTRY

Course # 640

Year course / 5 periods per week / 1 credit Grades 11, 12

Prerequisite: A grade average of 72% or better in Algebra I or recommendation of instructor.

NOTE: \$10.00 lab fee required.

AIMS: To provide a background in chemistry for students who plan to attend a technical school.

CONTENT: This course involves the study of the metric system, scientific notation, dimensional analysis, energy and matter, atomic structure, electron configurations, the Periodic Table, chemical formulas and bonding, chemical reactions and equation

HONORS CHEMISTRY

Course # 640H

Year course / 5 periods per week / 1 credit Grades 10,11

Prerequisite: Grade average of 82% or better in Honors Algebra I or teacher recommendation required.

NOTE: \$10.00 lab fee required.

AIMS: To enable students to understand the composition and the changes of matter. To enable students to apply knowledge in lab experimentation and to prepare the student for AP Chemistry.

CONTENT: This course involves the study of the metric system, scientific notation, atomic structure, electron configuration, periodic law, chemical bonds, formula writing, balancing equations, stoichiometry(chemical mathematics), gases and how they behave, and liquids, solids, and water.

ENVIRONMENTAL SCIENCE

Course # 961

Year course / 5 periods per week / 1 credit Grades 11, 12

NOTE: This course is intended for students on the "Pathway C".

AIMS/CONTENT: Environmental science is a high school level course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. It should be noted that there are classroom examples in the model curriculum that can be developed to meet multiple sections of the syllabus, so one well-planned long-term project can be used to teach multiple topics.

GENETICS

Course # 660

Year course / 5 periods per week / 1 credit Grades 11, 12

Prerequisite: Successful completion of chemistry and biology with an 82% average or better and/or recommendation of instructor.

NOTE: College level textbook and reading.

AIMS: To enhance the student's knowledge of biological concepts related to the rules of inheritance in cells, and the molecular mechanisms by which genes control the growth, development and appearance of organisms.

CONTENT: This course involves the study of Mendel's principles and chromosomal theory, molecular genetics, quantitative genetics, and evolutionary genetics, as well as prokaryotic and eukaryotic cellular development and reproduction.

HONORS PHYSICS

Course # 670H

Year course / 6 periods per week / 1 credit Grades 11, 12

Prerequisite: Grade average of 82% or better in Honors Algebra II/Algebra II and concurrent enrollment in Honors PreCalculus and recommendation of instructor.

NOTE: \$10.00 lab fee required. This course will not be offered during the 2020-2021 school year.

AIMS: To develop an understanding of the physical phenomena that relates to everyday experiences. This course will prepare the student for college by giving a foundation of classical mechanics.

CONTENT: This course involves the study of motion in one and two dimensions, vectors, forces, work and energy, circular motion and gravitation. This course is math-intensive with a strong emphasis placed on problem solving. Laboratory investigations enhance the understanding of the basic physical topics under study.

AP PHYSICS I

Prerequisite: Students need to have completed geometry and be concurrently taking Algebra II or an equivalent. Additionally students need to have earned an 82% or higher in an honors/advanced science course or teacher recommendation. Although Physics I course includes basic use of trigonometric functions, this understanding can be gained either in the concurrent math course or in the AP Physics 1 course itself.

NOTE: \$10.00 lab fee required.

AIMS: AP Physics 1 is a full-year course that is the equivalent of a first semester introductory college course in algebra-based physics. In addition, an emphasis is placed on inquiry-based investigations that provide students with opportunities to demonstrate the foundational physics principles and apply all seven science practices defined in the course framework.

CONTENT: AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; torque and rotational motion; electric charge and electric force; DC circuits; and mechanical waves and sound. This course requires that 25 percent of the instructional time be spent in hands-on laboratory work.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

ADVANCED PLACEMENT BIOLOGY

Course # 680

Year course / 7 periods per week / 1 credit Grades 11, 12

Prerequisite: Grade average of 82% or better in Honors Biology; one year of Chemistry completed, and teacher recommendation, are required. AP Statistics is recommended but not required.

NOTE: \$10.00 lab fee required.

AIMS: It is designed for students who intend to specialize in biology. Students will develop a framework for modern biology and an appreciation of science as a process. The major concepts are covered through extensive laboratory, computer-based and student-centered activities.

CONTENT: Students will explore and master the topics of molecules and cells, heredity and evolution, diversity of organisms, structure and function of organisms, and ecology. Guided by Advanced Placement curriculum.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

ADVANCED PLACEMENT CHEMISTRY

Course # 690

Year course / 7 periods per week / 1 credit Grades 11, 12

Prerequisite: Grade of B- or better in Algebra II. Grade of B- or better in Honors Chemistry and recommendation of instructor.

NOTE: \$10.00 lab fee required. This course runs in alternate sequence with AP Physics and will next be offered during the 2021-22 school year.

AIMS: To study the structure of matter, states of matter, chemical reactions, and descriptive chemistry.

CONTENT: This course will focus on atomic theory and structure, chemical bonding, nuclear chemistry, gases, kinetic-molecular theory, liquids and solids, stoichiometry, kinetics, thermodynamics, and an introduction to organic chemistry. Guided by Advanced Placement curriculum. Laboratory experimentation will be an important part of this course.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

HUMAN ANATOMY & PHYSIOLOGY: AN INTRODUCTION TO MEDICAL SCIENCES

Course # 690

Year course / 5 periods per week / 1 credit Grades 11, 12

Prerequisite: Grade average of 82% or higher in chemistry and biology or teacher recommendation.

NOTE: College textbook is used

for this course. \$10.00 lab fee required.

AIMS: To prepare students with the skills and knowledge necessary to be successful in the future medical science classes.

CONTENT: Human Anatomy and Physiology provides students with an in-depth understanding and working knowledge of the human body. Anatomy and Physiology integrates the structure and function of cells, tissues, organs and organ systems of the human body. Concepts of chemistry, physics, and pathology are integrated as applied to course material. An emphasis is placed on the relationship of body systems. Students will be responsible for completing several dissections of preserved specimens, proper use of lab equipment, lab reports, and projects assigned throughout each unit.

ASTRONOMY

Course # 680

Year course: 5 periods per week / 1 credit Grades: 11, 12

Prerequisites: None.

NOTE: College level textbook and reading.

AIMS: To understand basic science of the celestial bodies, their positions, motions, distances, and origins.

CONTENT: This course involves the study of foundations of astronomy, the birth of modern science, information from the cosmos, the tools of astronomy, the solar system, stars and stellar evolution, galaxies and cosmology.

Social Studies

GRADE	ELECTIVES	PATHWAY B	PATHWAY A (Honors and Advanced Placement <i>by recommendation</i>)
9		World History	Honors World History
10	Elective courses: * Sociology Psychology Advanced Placement Psychology ** Financial Literacy Law I (10-12)	American History	AP European History
11		American Government	AP United States History
12		ELECTIVES	AP United States Government

***NOTE:** Electives are available to all 10th, 11th and 12th grade students unless otherwise noted.
**** NOTE:** This is a one-year course and will have similar requirements to the other Advanced Placement Social Studies classes and can be taken concurrently with AP US History or AP Government.

WORLD HISTORY

Course # 700

Year course / 5 periods per week / 1 credit Grade 9, Graduation Requirement

AIMS: This course will focus on the 15th century to the present. Its design will develop an understanding of the institutions of Western and non-Western cultures by targeting the Political, Social, Religious, Cultural and Economic evolution over the past 500 years.

CONTENT: Students will work with a variety of texts, primary sources, Internet, and other research tools. Students will discuss and develop an understanding of many themes including: Renaissance, Enlightenment, World Exploration, Political Revolutions, Industrialism, Imperialism, World Wars, The Cold War, and Modern Globalism.

HONORS WORLD HISTORY

Course # 700H (instructor permission required)

Year course / 5 periods per week / 1 credit Grade 9

Prerequisite: At least an 82% average in Advanced middle school coursework or teacher recommendation.

AIMS: Students will be introduced to the history of both Western and non-Western societies from the enlightenment to modern times. This course will focus on the depth of understanding of the times and the interconnection of world events in all history. Cause and effect will be highlighted by students gaining an understanding of how the diversity of historical events has shaped various regions while also influencing the rest of the world.

CONTENT: Emphasis will be placed on the development of the students' ability to analyze, explain and interpret history. Students will focus on the use of primary sources, discussion and written expression. In addition, debate, presentations, interactive activities and other technologies will be integrated into the course. Themes will include: Renaissance, Enlightenment, World Exploration, Political Revolutions, Industrialism, Imperialism, World Wars, The Cold War, and Modern Globalism.

AMERICAN HISTORY

Course # 720

Year course / 5 periods per week / 1 credit Grade 10

Prerequisite: At least an 82% average in Accelerated/Advanced middle school coursework and teacher recommendation.

AIMS: This course has been constructed so as to assist students in understanding the rich heritage that we share as Americans. It has been designed to also develop their overall study skills and appreciation of their rights and responsibilities as citizens of this nation.

CONTENT: The students will be expected to become involved in a survey of the significant events beginning with the Civil War and continuing through the contemporary issues facing our nation. The first unit consists of a review of the era leading up to and including the Civil War in order to reinforce previously introduced content.

STATE ASSESSMENT: American History, Graduation Requirement

LAW I

Course # 745

Semester course / 5 periods per week / 1/2 credit Grades 10, 11, 12

AIMS: This course is designed for students who have an interest in a law or law-related careers, such as law enforcement, trial attorney, judge, etc. It is also designed for those who have an interest in participating in the Ohio Mock Trial competition.

CONTENT: This class engages students in relevant topics including: critical thinking skills; constitutional, criminal and civil law; rules of evidence; trial procedure and preparation; and mock trial simulations. The culminating activity is to prepare for and compete in the OHIO MOCK TRIAL competition, sponsored by the Ohio Bar Association. Enrollment in this class affirms the student's commitment to participate in this mock trial competition representing Cuyahoga Heights High School.

AMERICAN HISTORY

Course # 730

Year course / 5 periods per week / 1 credit Grade 12

AIMS: This course is designed to provide students with a working knowledge about the U.S. government that will enable and encourage them to participate in the political process.

CONTENT: The history of our government, its future, and the present dilemmas it faces form the core of this course. Specific topics include the formation of constitutional democracy, federalism, the rights and responsibilities of citizenship, comparative systems, and other timely topics related to the political structure.

STATE ASSESSMENT: American History, Graduation Requirement

FINANCIAL LITERACY

Course # 740

One Semester / 5 periods per week / 1/2 credit Grades 10, 11, 12

AIMS: This course is a study of what it takes to succeed as a consumer in today's world. The study will cover the many and varied consumer decisions made over the course of a lifetime.

CONTENT: This course will be an in-depth study of the complete world of consumer economics. It will include an introductory study of macroeconomics; supply and demand; the causes and effects of our government on the economic system; and the development of life plans and views of money.

PSYCHOLOGY

Course # 750

One Semester / 5 periods per week / 1/2 credit Grades 10, 11, 12

AIMS: Because Psychology studies the human mind, its mental processes and individual behavior, students will gain insight into these areas. The course is designed to help the student better understand why others act as they do, or more specifically, why one acts as he/she does.

CONTENT: Psychology deals with the study of individual behavior, students will gain insight into a variety of areas such as thinking, memory, learning, emotions, motivation, human development, personality, sensation, and perception. The development of the field of psychology and its potential future are included.

SOCIOLOGY

Course # 755

One Semester / 5 periods per week / 1/2 credit Grades 10, 11, 12

AIMS: This course is designed to help the student better understand the effects of culture, family, institutions, media and other societal factors that shape what is normal, acceptable social behavior, as well as defining what is deviant behavior.

CONTENT: Sociology is the study of groups in society. Topics covered deal with family relationships, crime, religion, minorities, social classes, and other potential and real social problems.

ADVANCED PLACEMENT EUROPEAN HISTORY

Course # 725

One Year course / 5 periods per week / 1 credit Grade 10

NOTE: All students enrolled in Advanced Placement European History are expected to have maintained an 82% average in World History. They also need to have the recommendation of the Department.

AIMS: This course is designed for the advanced student or highly motivated individual who wishes to study European History in greater detail than the regular survey course. The course comes with the expectation of the student taking the Advanced Placement examination in May. The course includes preparation in content, process, and interpretation of events from 1450 to the present.

CONTENT: The course has students investigate the content of European history for significant events, individuals, developments and processes in four historical periods, while developing and using the same thinking skills and methods employed by historians when studying the past. The course also provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

ADVANCED PLACEMENT UNITED STATES HISTORY

Course # 770

One Year course / 5 periods per week / 1 credit Grade 11

NOTE: All students enrolled in Advanced Placement American History are expected to have maintained an 82% average in World History. They also need to have the recommendation of the Department.

AIMS: This course is designed for the advanced student or highly motivated individual who wishes to study United States history in greater detail than the regular survey course. The course comes with the expectation of the student taking the Advanced Placement examination in May. The course includes preparation in content, process, and interpretation of events from the Colonial era to Contemporary era.

CONTENT: The course includes a study of selected topics from the colonial era to the present. Emphasis will be placed on helping the students to become proficient in both content and process by continued development of their critical thinking abilities. Additionally, another focus will include a basic study of some of the more well-known interpretations of American history in order to provide some understanding of historiography.

STATE ASSESSMENT: American History, Graduation Requirement. Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

ADVANCED PLACEMENT PSYCHOLOGY

Course # 780

One Year course / 5 periods per week / 1 credit Grades 11, 12

NOTE: *Recommendation by teacher required*

AIMS: The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice.

CONTENT: This course is designed for the advanced student or highly motivated individual who wishes to study the introductory components of psychology. Students taking this course will be expected to take the Advanced Placement exam in May. Topics include the following: History and Approaches; Research Methods; Biological Bases of Behavior; Sensation and Perception; States of Consciousness; Learned and Unlearned Behavior; Cognition; Motivation and Emotion; Developmental Psychology; Personality; Testing and Individual differences between Normal and Abnormal Behavior, Treatment of Abnormal Behavior; and Social Psychology.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

ADVANCED PLACEMENT U.S. GOVERNMENT

Course # 790

One Year course / 5 periods per week / 1 credit Grade 12

NOTE: May be taken in lieu of American Government and Economics. Enrollment by recommendation of the department.

All students enrolled in Advanced Placement American Government are expected to have maintained an 82% average in their previous social studies courses. They also need to have the recommendation of the department.

AIMS: This course is designed for the advanced student who wishes to study government in detail, with the expectation of taking the Advanced Placement examination for college credit.

CONTENT: The course includes a study of the United States government as well as fiscal and monetary policy. Topics will include: forms of government, the Constitution, the branches of government and their respective offices and agencies, political parties, political participation and voting behavior, public opinion and the influence of the media, lobbying and special interest groups, civil rights and liberties, and landmark Supreme Court cases.

STATE ASSESSMENT: American Government, Graduation Requirement. Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

T echnology Education

DIGITAL & INTERACTIVE MULTIMEDIA

Course # 155

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11, 12

AIMS/CONTENT: Digital & Interactive Multimedia provides students a hands-on experience with current technology in the marketplace and its application in information technology. A wide range of current hardware and software will be explored. Students will use their creativity and skills to create and edit interactive multimedia presentations, digital images, sound, and movies, and will be introduced to animation and web pages. The knowledge and skills acquired in this class will enable students to successfully perform and interact in today's technology-driven society.

CONSTRUCTION TECHNOLOGY

Course # 433

One Semester / 5 periods per week / 1/2 credit Grades 9, 10, 11, 12

NOTE: Students have a \$45.00 fee to cover materials and safety glasses.

AIMS: This course is designed to provide students an appreciation for the many careers available in the construction industry and will learn the basic skills needed for those careers.

CONTENT: Students will study all processes involved in residential construction. Instructions on building codes and permits, plans, materials, and construction methods will be provided as well as experience building large group projects.

WOODWORKING I

Course # 450

Semester or Year course / 5 periods per week / 1/2 credit or 1 credit Grades 9, 10, 11, 12

NOTE: Students have a \$45.00 fee to cover materials and safety glasses.

AIMS: This course is designed to provide expanded skills in woodworking and project planning which will enable the students to produce wood projects for home and hobby.

CONTENT: Instruction in stationary power tools, portable power tools and hand tools. Emphasis will be put on planning projects, fastening, jointing, wood joints and finishing a woodworking project. This course is designed for students with no prior high school woodworking experience. Students will complete a minimum of two projects to take home.

ADVANCED WOODWORKING

Course # 460

Year course / 5 periods per week / 1 credit Grades 10, 11, 12

Prerequisite: Woodworking I

NOTE: Students will be required to purchase materials for the projects they complete and safety glasses.

AIMS: This course is designed to provide students with skills and techniques in furniture and cabinet making. This course is designed for students who have previously taken Woodworking I

CONTENT: All topics for Woodworking I will be expanded in detail and projects are usually larger and more detailed than those of Woodworking I.

ELECTRONICS

Course # 465

One Semester / 5 periods per week / 1/2 credit Grades 10, 11, 12

AIMS: This course is designed to provide students with a basic understanding of the world of electronics.

CONTENT: Students will study and understand Ohm's Law and be able to identify and solve series and parallel circuits. Magnetism, AC & DC current and motors will also be stressed during the course.

ENGINEERING GRAPHICS & COMPUTER AIDED DESIGN

Course # 480

Semester course / 5 periods / 1/2 credit Grades 9, 10, 11, 12

AIMS: This course is designed to provide basic skills and exploration in the fields of engineering and architectural design graphics. This course is structured to prepare students for drafting and design in a variety of technological fields.

CONTENT: Students will learn the correct use of all drafting instruments and media. Instruction in geometric construction, orthographic projection, view relationships, and isometric views will be stressed in the first semester. Elevations, floor plans, site development, and architectural perspectives will be stressed in the first semester. Elevations, floor plans, site development, and architectural perspectives will be stressed in the second semester. Students will use Auto Desk CAD and Solid Edge software. Students will also learn how to use a 3D printer.

PLTW COMPUTER SCIENCE ESSENTIALS

Course # 445

Year course / 5 periods per week / 1 credit Grades 9, 10, 11, 12

AIMS/CONTENT: Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles and Computer Science A.

PLTW COMPUTER SCIENCE PRINCIPLES

Year course / 5 periods per week / 1 credit Grades 10, 11, 12

Prerequisite: PLTW CSE

NOTE: This is a two year sequence course, students will sit for the AP Computer Science exam at the culmination of this course.

AIMS/CONTENT: Using Python® as a primary tool, students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges like app development and simulation. This course is endorsed by the College Board, giving students the opportunity to take the AP CSP exam for college credit.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance office.

College Credit Plus

COLLEGE ALGEBRA - COLLEGE CREDIT PLUS

Course #MTHM 171

Year course / 4 periods per week / 1.33 HS credit

NOTE: Students will be required to purchase a TI-84 graphing calculator.

Prerequisite: Course placement policy: Satisfactory placement assessment in mathematics.

Study of algebraic functions, equations, systems of equations, inequalities, matrices, partial fractions, exponential and logarithmic functions. Designed primarily for the calculus-bound student. Graphing calculator required. Mathematics Core Course.

COLLEGE STATISTICS - COLLEGE CREDIT PLUS

Course # MTHM 168

Semester class / 5 periods per week / 1 HS credit Grades 11, 12

NOTE: Students will be required to purchase a TI-84 graphing calculator.

Prerequisite: Grade of C or better in MTHM 171 and MTHM 172 or 3 years high school college-preparatory mathematics and satisfactory placement assessment.

This course provides a non-calculus based introduction to statistical thinking and statistical methods. The topics discussed in the course include: data collection, data description, basic probability, sampling distributions, probability distributions, confidence intervals and hypothesis tests. An emphasis is placed on using technology to solve problems involving real data and hands-on projects are used throughout the course.

COLLEGE PRE-CALCULUS - COLLEGE CREDIT PLUS

Course #MTHM 172

Year course / 3 periods per week / 1 HS credit Grades 11, 12

NOTE: Students will be required to purchase a TI-84 graphing calculator.

Prerequisite: Grade of C or better in MTHM 171 or 3-1/2 years high school college-preparatory mathematics and satisfactory placement assessment.

For the calculus-bound student. A study of trigonometric functions and their graphs; trigonometric identities and equations; conic sections; polar and parametric equations; mathematical induction; and the Binomial Theorem. Graphing calculator required. Mathematics Core Course.

Advanced Placement Capstone

AP SEMINAR

Course #795

Year course / 5 periods per week / 1 credit

NOTE: Students will be required to take AP Research

Grades: 9, 10, 11, 12

Prerequisite: Teacher approval.

AP Seminar is a year-long course that has students investigate real-world issues from multiple perspectives. Students learn to synthesize information from different sources, develop their own lines of reasoning in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance department.

AP RESEARCH

Course #795

Year course / 5 periods per week / 1 credit

Grades 10, 11, 12

Prerequisite: AP Seminar

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question.

In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000-5000 words and a presentation with an oral defense.

ASSESSMENT: Students are required to take the AP exam associated with this course. Students who do not participate in the exam will be charged the cost of the exam. Updated AP exam fees can be obtained via the guidance department.

Intervention & Enrichment

INTERVENTION & ENRICHMENT

Year course / 3-5 periods per week / No credit

Grades 9, 10, 11, 12

Prerequisite: None

AIMS: Based on the concepts of intervention and enrichment, students may be enrolled in an Advisory period. Advisory time should be viewed as a time for enrichment and remediation of key concepts for all students. Students will receive extra help with class assignments and topics in an effort to reinforce classroom content. In addition, students may be introduced to social skills curriculum, organizational techniques, study skills and techniques geared to enhance technological skills. Students will be permitted to work in various enrichment areas as recommended by the teaching staff.

CONTENT: As needed.

FRESHMAN FOUNDATIONS & SOPHOMORE STRATEGIES

1.5 Year Course Sequence / 3-5 periods per week / Courses are each ½ credit /

Grades 9, 10

Prerequisite: Teacher Recommendation

AIMS: 9th and 10th graders identified by staff will engage in a curriculum focused on both improving high school academic outcomes and exploring relevant post-secondary options. Students will develop a sound understanding of post-secondary options for education and employment, while also receiving instruction and support on core academic tasks required for both school and life success. Students will also be engaged in a year-long community service project during the Freshman Foundations portion of the course sequence.

CONTENT: As needed.

STUDY SKILLS

Semester course / 5 periods / 1/4 credit

Grades 9, 10, 11, 12

Prerequisite: Teacher/Counselor Recommendation

AIMS: The Study Skills program is designed to assist students learn, understand, and reinforce concepts and/or assignments presented in the general curriculum. Students have the opportunity to develop and strengthen good study habits and learning strategies through various instructional methods and strategies. Individualized student goals and objectives will be integrated into the class. The study skills teacher will collaborate with regular education teachers on an on-going basis to develop study strategies and design lessons to best meet academic requirements of the regular classroom. Study Skills is a support class for students taking regular education classes. Emphasis is placed on core classes.

APPLIED ALGEBRA LAB

Course # I/E Algebra A

Year course / 5 periods per week / 1/2 credit (1/4 credit per semester) Grade 9

NOTE: Upon the recommendation of the Mathematics Department.

CLASS. Lab component is graded as pass/fail and is taken as an elective course for ¼ credit per semester.

AIMS: I/E Algebra A is paired with Applied Algebra and is designed to help students develop basic skills in all areas of the Mathematics curriculum. While the specific content and pacing of the material is determined by the teacher based on the individual needs of the students enrolled, students will increase their problem solving and math reasoning skills. Time will also be spent preparing for statewide assessments.

CONTENT: Mathematical symbols; signed numbers; operations with polynomials; first order equation and inequalities and their applications; proportions; products and factors; operations with fractions; functions, relations, and graphs; systems of open sentences in two variables; powers and roots; quadratic equations; data analysis; measurement; basic trigonometry.

STATE ASSESSMENT: Algebra I (after completion of Algebra I course), Graduation Requirement.

ALGEBRA IB LAB

Course # I/E Algebra I

Year course / 5 periods per week / 1/2 credit (1/4 credit per semester) Grades 9, 10

NOTE: Upon the recommendation of the Mathematics Department, this course is recommended for students who have had difficulty with algebraic concepts and integers. This course along with Applied Algebra is the Algebra I curriculum at a more deliberate pace over two years rather than one year. This course is

CLASS. Lab component is graded as pass/fail and is taken as an elective course for ¼ credit per semester.

AIMS: I/E Algebra I is paired with Algebra IB, as part of a two year Algebra curriculum, and is designed to help students develop basic skills in all areas of the Mathematics curriculum. While the specific content and pacing of the material is determined by the teacher based on the individual needs of the students enrolled, students will increase their problem solving and math reasoning skills. Time will also be spent preparing for statewide assessments.

CONTENT: Mathematical symbols; signed numbers; operations with polynomials; first order equations and inequalities and their applications; products and factors; operations with fractions; functions, relations, and graphs; systems of open sentences in two variables; powers and roots; quadratic equations.

STATE ASSESSMENT: Algebra I, Graduation Requirement.

GEOMETRY LAB

Course # 505A

Year course / 5 periods per week / 1/2 credit (1/4 credit per semester) Grades 10,11

Prerequisite: Algebra I and Lab

CLASS. Lab component is graded as pass/fail and is taken as an elective course for ¼ credit per semester.

NOTE: This course will emphasize the everyday applications of Geometry for students who have difficulty in mathematics based on state assessment results and teacher recommendation. **This is a two-period**

AIMS: To have students enhance their vocabulary with geometric terminology; to understand inductive and deductive reasoning; to promote the ability to think creatively; to introduce the analytical approach to geometric relationships.

CONTENT: Basic properties and terminology; methods of reasoning and proofs; congruence; parallels, constructions; polygons; proportional line segments; similar figures; circles; measurement of angles and arcs in a circle; areas of polygons; Pythagorean Theorem; volume of solids; trigonometry; coordinate geometry.

STATE ASSESSMENT: Geometry, Graduation Requirement.

LIFE SKILLS

Course # TBD

Year course / 5 periods per week / 1 credit

Prerequisite: Teacher recommendation

CONTENT/AIMS: Students will engage in a wide variety of tasks that mirror the demands of everyday living in the post-secondary world. These tasks are generally broken into three rough categories: cooking, independent travel, and budgeting. Cooking tasks include meal planning, grocery shopping, and meal preparation. Independent travel tasks include planning a trip via public transportation, taking a trip via public transportation, and problem solving on an existing public transportation route. Budgeting tasks include reading a pay stub, planning for recurring bills, and developing an understanding of the relationship between income and expenses. Other tasks are likely to be included.

EMPLOYABILITY

Course # TBD

Year course / 5 periods per week / 1 credit

Prerequisite: Teacher recommendation

CONTENT/AIMS: Students will engage in a wide variety of tasks that mirror the demands of competitive employment in the post-secondary world. These tasks will be performed both in the classroom environment and at work sites designed for this course in the broader school community. Tasks will include skills required across a range of employability skills including workplace stamina, following directions and procedures, practicing safe working habits, and interacting with customers and supervisors.

Steps To Success

NAVIANCE FAMILY CONNECTION

Naviance Family Connection is a comprehensive website that you can use to plan for college and/or a career.

Family Connection is linked with Naviance, a service the district utilizes to assist with college and career plans.

Naviance allows you to:

- Research colleges – find colleges by name, state or quick list (those colleges to which CHHS students frequently apply)- find general admission information, Compare GPA, standardized test scores, and other statistics to actual historical data from our school for students who have applied and been admitted in the past.
- Research careers – Research hundreds of careers and career clusters and take career assessments.
- Get involved in the planning – Build a resume, complete online surveys, and manage timelines and deadlines for making decisions about careers and colleges.
- Create plans for the future – Create to-dos and complete tasks assigned to you by the school to better prepare yourself for your future career and college goals.
- Log on to cuyhts.org, click on Departments, then Guidance. The Naviance LogIn is a highlighted link on this page.
- Each student receives a student account. Log in using your school email. The password is your lunch code two times.

The College Preparation Calendar

FRESHMAN YEAR

Set Goals- Plan for Success

Start a folder to keep all the papers you'll need in one accessible location. Your folder can contain copies of report cards, any awards you have won, community service awards, or any paperwork in reference to your achievement in school. Also, try to keep track of the different skills you learn from both paid and volunteer jobs.

Discuss the following with your school counselor:

- **Take the right classes.** Colleges care about which courses you are taking in high school and how your course selections match what a college will expect you to know within a major.
- **Keep your grades up.**
- **Explore career paths.** Investigate your interests and skills and think about possible career choices. There are many ways to explore your options: through career information and assessments offered by Naviance; work experience in part-time jobs, community service and informational interviews with persons in fields that interest you.
- **Start gaining experiences.** Volunteer or get involved in extracurricular activities outside of the classroom. This will not only look good on your college applications and resumes in the future, but it will also help you learn more about yourself, and make choosing a career path easier.
- **Develop good study habits** by following these tips:
 - Know what to study. Before any exam, list what it is you have to know. This way, when it comes down to crunch time, you can concentrate on what is important. Your teachers will be more than happy to help with this.
 - **Manage your time.** Once you know what it is that has to be done, you then have to find the time to do it properly. Don't wait until the night before the exam to crack open your book and read your notes. Establish a regular study schedule, so you will not be overwhelmed trying to learn everything the day before the test.
 - **Select the best study environment.** You are more alert and motivated when sitting up! If you are studying at home, try to sit at a desk or table in a quiet part of the house. Try to eliminate distractions- like cell phones, social media, and tv.
 - **Study actively, not passively.** Whether you are at the library or in your room at a desk, learning does not happen by osmosis. The trick is to study actively, become involved with what you are studying.
 - **Study tips:** make notes in your own words; repeat facts aloud to a friend, draw diagrams, create mental images to help you understand complex concepts; use mnemonic devices for fun too.

SOPHOMORE YEAR

Prioritize Goals ~ Focus Your Endeavors

Discuss the following with your school counselor:

- Take the PSAT in October
- **Sign up** for co-curricular activities that interest you. The level of involvement and accomplishment is most important, not the number of activities. Also, explore out-of-school interests and explore ways those interests can be focused in order for you to create leadership and volunteer opportunities.
- **Visit** the Cuyahoga Valley Career Center to explore their programs.
- Make sure you are **staying focused** on your academic work. Meet with teachers who may be able to help you if you are struggling in class.
- Save your best work in your folder or binder. Make sure your community service copies are up-to-date and that you are recording your awards and honors.
- **Create** a challenging course schedule that will impress a college admission advisor. Maintain your focus on your academics.
- It is never too early to **begin researching** colleges and universities. Visit the Guidance web page to explore Ohio's Independent and Public colleges and universities informational booklets.
- Consider **contributing** toward your community service hours as well!
- **Plan a college tour** with your parents this summer. Call the admission office to set up a tour.
- You may want to **sign up** for an ACT prep course, use online resources for practice tests, or look at the ACT practice tests on act.org. All of these resources will help familiarize you with the standardized test and give you a leg up. If you are not pursuing summer employment, consider volunteering at a local organization. This provides another avenue for career exploration, plus it is a highlight on your resume.

JUNIOR YEAR

Strengthen your Resolve to Do Your Best

- **Reorganize** the folder or binder where you are keeping track of all of your accomplishments.. Keeping copies of your achievements will pay off next year when you are applying to college.
- **Register** for the PSAT/NMSQT (National Merit Scholarship Qualifying Test). Focused effort on this test allows juniors to be eligible for academic scholarships awarded by the National Merit Corporation.
- **Attend** the Cuyahoga Valley Career Center's College Fair in October. Representatives from surrounding colleges, both in and out of state will be in attendance, as well as members of the military and technical schools. A financial aid meeting is also held at this event. It provides valuable information regarding completion of the FAFSA.
- College admission representatives will visit Cuyahoga Heights students. You are encouraged to **register** in order to learn about the colleges which will assist you in the college decision-making process.
- **Join** or create an academic club that you are interested in.
- Junior year grades are extremely important in the college admission process, because they are a measure of how well you do in advanced courses. Grades are used to determine scholarships and grants for which you will be eligible for next year. So put in the **extra effort** and keep your grades up!
- **Take** the college admissions tests, like the ACT or SAT seriously. By taking these tests in junior year, you will be well- prepared with test scores to begin the college application process in the fall of your senior year. Consider taking the test twice to improve your score.
- **Maintain** your grades and improve them if necessary. Your cumulative grade point average used in college admissions is determined at the end of your junior year. Colleges look carefully at junior and senior year grades.
- **Distinguish** yourself in some areas: athletics, arts, leadership, community service, or interests outside of school.
- **Plan** for a college visit during spring break with your parent(s). Call the college admission office to set up a tour or speak to a professor in the major you intend to apply to. Research colleges you may be interested in utilizing the Guidance webpage's resources. You are allowed two 'excused' days from school to visit colleges and you may utilize this opportunity now or during senior year. Paperwork must be completed in order to have the day excused.
- **Review** the different college websites to compare information and start to narrow choices for application.
- **Talk** with your school counselor regarding technical schools or full-time career employment after graduation.
- Does your college of choice have a summer leadership academy or internships available? Look into **leadership or academic opportunities** on college campuses.
- Consider completing your **community service** hours this summer! Plan for when and where you can volunteer.
- If you work, begin to **save** part of your earnings for college.

SENIOR YEAR

Maintain Your Momentum and Finish the Year Strong!

- Your college application is the single most **important** document you will complete during this time.
- Different schools have different deadlines, and it is **your responsibility** to keep track of deadlines, and to submit the College Application Processing form, your Activity Survey, and your Records Release form to the Guidance Office, so that your application reaches the college by their deadline.
- **Reacquaint** yourself with Naviance, our district's method of keeping track of your college applications and submission of transcripts. In addition, Naviance will showcase national, state, regional, and local scholarships.
- A **strong** first semester is vital. Some schools will withhold acceptance until completion of the first semester. This is the year to show real leadership in extracurricular activities.
- Retake the ACT in the fall if you are trying to **raise** your scores.
- **Attend** college admission visits at CHS. Many colleges visit our high school each year. Listen to announcements for dates, and sign up for visits on Naviance. Parents are also welcome to attend.
- It is recommended that you and your parent or guardian **obtain** a FSA ID in order to access the FAFSA site.
- Don't forget to **thank** teachers who have written recommendation letters for you!
- Familiarize yourself with the FAFSA. Attend the Financial Aid Night at the Cuyahoga Valley Career Center in October.
- **Review** all of your acceptances and financial aid letters.
- **Consider** what area of interest you would like to concentrate on for your Senior Project.
- Do your best to **complete** your community service.
- By May 1st, **notify** all colleges who have accepted you that you will or will not be enrolling. Your enrollment deposit must be paid according to the college's deadline.
- Prospective college-bound student-athletes should complete the College Application Processing form for the NCAA Clearinghouse.
- We wish you all **the best** on your post-secondary plans!

CUYAHOGA VALLEY CAREER CENTER

The Cuyahoga Valley Career Center is an extension of Cuyahoga Heights High School and offers students a variety of career and technical education programs during their junior and senior years. These programs are designed to provide students with marketable technical skills and preparation for a career or further education making use of those skills. Upon graduation from high school, students are ready for immediate employment or for continued training in their chosen field in an apprenticeship, at a technical institute or at a two- or four-year college. Entry to CVCC programs is by application online at www.cvccworks.edu.

EARNING COLLEGE CREDIT

There are several opportunities for students to earn college credits for the career-technical coursework taken at CVCC. Most programs at CVCC are designated “Ohio College Tech Prep” (identified in the program listings by the ◆ symbol), in which students can earn transcribed college credit that is transferable to any public two- or four-year college in Ohio. Students must meet specific requirements to qualify, including a 3.0 or better GPA at CVCC, completion of Algebra II or higher, and a 2.0 overall GPA. In addition, some CVCC programs are approved by the Ohio Board of Regents as “Career Technical Credit Transfer” courses (identified in the program listings by CT2). In these courses, students can earn credit in equivalent college courses by demonstrating agreed-upon technical knowledge and skills based on recognized industry standards. The credits transfer as subject-specific credits to any public two- or four-year institution in Ohio offering the equivalent technical course. CVCC also maintains individual agreements with several institutions that can lead to articulated college credit for CVCC coursework. A complete list can be found in the CVCC catalog or website. College-bound students should plan their four-year high school schedules carefully, so that they meet college entrance requirements and still have room in their schedule for a CVCC program

ACADEMICS/SCHEDULING

CVCC programs are two years in length and carry 4 units of elective credit per year, although some programs carry a mix of academic and elective credits (credits are listed with each program description). Students generally attend CVCC for half of each school day to take a technical course, and take regular academic courses at Cuyahoga Heights High School for the other half of the day. Exceptions are noted in the course descriptions. Cuyahoga Heights High School provides bus transportation to and from CVCC.

ADMISSIONS REQUIREMENTS

Students enrolling at CVCC must have completed two years of high school by the year in which they begin a program. Students on track for graduation at the end of their sophomore year, by having completed at least seven of the fifteen core academic credits required for graduation by the Ohio Department of Education, are assigned “priority” status for enrollment. The credits must include two in Language Arts, two in Mathematics and any combination of three credits in Science, Social Studies, Health or Physical Education. Students not meeting this standard are assigned “regular” status and are accepted after all priority status students have been placed. For each regular status student, the guidance office must submit a written plan for completing graduation requirements and have received approval by the CVCC administration by the first day of school. Several CVCC programs have unique admission requirements (pre-requisite courses, grade point average, interviews, etc.) See the individual program descriptions for details. In accordance with best practices, admission of students with disabilities should be the result of an IEP/transition team meeting to which the appropriate CVCC representative has been invited.

CAMPUS WEAR

All CVCC students are required to purchase or rent prescribed campus wear, which must be worn while class is in session. Students in *Cosmetology*, *Culinary Arts*, *Dental Assisting*, *Health Careers*, *Medical Administrative Specialist* and *Public Health & Safety* purchase uniforms from uniform supply stores. *Hotels & Resorts* students purchase pants on their own, but jackets and caps are purchased through CVCC. Students in *Auto Body*, *Auto Service Technology* and *Power Equipment Technology* rent uniforms through CVCC. The cost is included in the class fee. All other students purchase program shirts through CVCC. Except where noted, uniform costs are not included in the listed program fees. Please note: Program fees may be subject to change.

Cuyahoga Valley Career Center Program

Cuyahoga Valley Career Center Programs

Career Technical educational programs are available in 11th and 12th grades. Students can use college or general preparatory curriculum guidelines to prepare for these ½ day career center programs.

Students apply to the Cuyahoga Valley Career Center during the fall of their 10th grade year. The student's 9th grade transcript is sent to the Career Center as a part of the student's application, and thus, the freshman year GPA strength is vital to the application.

Check out cvccworks.edu for Career Technical Program information

Junior Year

AM: CVCC Program

PM: Cuyahoga Heights High School (three class periods)

Core academic courses are taken, i.e. English, math, and government

Senior Year

AM: Cuyahoga Heights High School (four class periods)

Core academic courses are taken, i.e. English, math, science, and option

PM: CVCC Program

CVCC ARTS & COMMUNICATION

DIGITAL DESIGN

Credit: Year One - 4.0 elective per year

Year Two - 3.0 elective, 1.0 English 12

Fees: Year One - \$55

Year Two - \$30

Students prepare to enter the exciting world of electronic imaging and multimedia. In this nationally recognized program, students study traditional art concepts and master computer graphics software to create advertising layouts, digital imagery, online social media and more. Students prepare for a career in computer animation, multimedia production, graphic design, advertising, social media, publications or other exciting possibilities.

GRAPHIC IMAGING TECHNOLOGY

Credit: Year One - 4.0 elective per year

Year Two - 3.0 elective, 1.0 English 12

Fees: Year One - \$75

Year Two - \$50

Students learn how to reproduce text, art and photo images through computer imaging, digital and offset printing processes. Students will be instructed in digital, offset and screen printing to print everything from books and magazines to posters and t-shirts. Students will learn the business of printing, graphics and imaging and prepare for one of the many exciting careers in this field. This program has achieved national PrintED accreditation from the Graphic Arts Education & Research Foundation.

MEDIA TECHNOLOGY

Credit: Year One - 3.0 elective, 1.0 English 11

Year Two - 3.0 elective, 1.0 English 12

Fees: Year One - \$55

Year Two - \$30

Students gain a deeper understanding of the technology behind video and audio production. From concept to completion, students will create audiovisual content for broadcast, Internet, and interactive multimedia applications. Independent study will offer students a chance to develop specific skills and interests. Students in this program prepare for a rewarding career in broadcasting, event videography, filmmaking, public relations, advertising, education or corporate communications.

CVCC **B**USINESS & ADMINISTRATIVE SERVICES

MEDICAL ADMINISTRATIVE SPECIALIST

Ohio College Tech Prep

Credit: Year One – 3.0 elective, 1.0 English 11

Year Two – 4.0 elective

Fees: Year One - \$110

Year Two - \$225

Students in this program prepare for positions in the office/reception area for a doctor, dentist, hospital or other medical facility. In this program students learn to schedule patients, maintain their medical records, and handle billing and insurance matters. In addition to standard office and computer skills, students will gain knowledge of medical terminology, and special medical office software. Students may gain employment as a health unit coordinator or administrative assistant after graduation, or with further education become a coding specialist, health information technician or medical office manager.

CVCC **E**ducation & Training

EDUCATION PROFESSIONS

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: Year One: 4.0 elective

Year Two: 4.0 elective

Fees: TBD

This program introduces college-bound students to the field of education. This is the first foundation course every education major takes whether you want to be a counselor, administrator or teacher. Students will have the opportunity to do observational experiences and hands-on projects to help you decide if a career in education is for you. State-wide college credit is given to students for successful completion of this curriculum.

CVCC **H**ospitality & Tourism

CULINARY ARTS & FOOD SERVICE

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: Year One: 3.0 elective, 1 Biochemistry

Year Two: 4.0 elective

Fees: Year One - \$201.00 Year Two - \$49.00

This program is designed for students who have a desire to learn about and work in the foodservice industry. Students will develop basic and advanced culinary skills in a commercial kitchen, and will learn to prepare, present, and serve food for guests in The Valley Inn Restaurant. Students will have the opportunity to enhance their customer service and management skills as they coordinate community catering events.

HOTELS & RESORTS

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: Year One: 4.0 elective (includes program jackets and caps)

Fees: Year One - \$91.00 Year Two - \$15.00

Students needing entry-level skills acquire practical work experience leading to entry-level positions in hotels, hospitals, bed & breakfasts, restaurants and other hospitality and service industries. Through direct instruction and community-based work projects, students learn the fundamentals of food preparation, laundry and linen care, guest relations and room maintenance. Math and English instruction are integrated into the class and a strong emphasis is placed on employability skills. Counselor recommendation is required for admission to this program.

CVCC Human Services

COSMETOLOGY

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: Year One: 4.0 elective (3.0 Cos. Lab; 1.0 Theory) - Both must be passed for promotion to Year Two.

Fees: Year One - \$637.00 Year Two - \$223.00

Practicing on mannequins and fellow students, first-year students learn how to provide personal care to hair, skin and nails to improve appearance. The second year, students apply their skills to serving patrons in the cosmetology clinic. A minimum 2.0 cumulative grade point average and a screening interview with the program instructors are required for admission. The Cosmetology course is licensed by the Ohio Board of Cosmetology and prepares students for the Ohio Board of Cosmetology Licensing Exam.

CVCC Information Technology

COMPUTER NETWORKING ACADEMY

Credit: Year One - 3.0 elective, 1.0 Algebra II or Pre-Calculus (Required)

Year Two - 4.0 elective OR 3.0 elective, 1.0 Pre-Calculus (Optional - students not taking math option remain in the program for 4.0 credits.)

Specialists who set up and administer networked computers and related equipment are in great demand. Acquire the skills used by both PC Support Technicians and Network Administrators. You'll study hardware and operating systems for computer networks and train to upgrade, troubleshoot and administer the system. We'll prepare you for these high-paying jobs and give you a head start on a computer science program in college. Students in this program must have access to the internet to complete homework assignments.

PROGRAMMING & SOFTWARE DEVELOPMENT

Credit: Year One - 3.0 elective, 1.0 Algebra II or Pre-Calculus (Required)

Year Two - 4.0 elective OR 3.0 elective, 1.0 Pre-Calculus (Optional - students not taking math option remain in the program for 4.0 credits.)

What makes technology work? Programs and software written by trained professionals who know how to problem solve. Designed for college bound students, this program will teach you the fundamental concepts that can be applied to all programming languages. Using Java, C#, HTML 5, CSS, JavaScript, and SQL, you'll learn to write software for websites, mobile devices, business applications and personal use. Start preparing for an in-demand career as a software developer, web developer, database administrator, or other information technology or computer science position.

CVCC Health Science

DENTAL ASSISTING

Ohio College Tech Prep

Credit: Year One: 3.0 elective, 1.0 Anatomy

& Physiology (Both Dental Assisting and Anatomy & Physiology must be passed for promotion to Year Two.)

Year Two - 4.0 elective

Fees: Year One - \$374.00 Year Two - \$180.00

Practicing on mannequins and fellow students, first-year students learn how to provide personal care to hair, skin and nails to improve appearance. The second year, students apply their skills to serving patrons in the cosmetology clinic. A minimum 2.0 cumulative grade point average and a screening interview with the program instructors are required for admission. The Cosmetology course is licensed by the Ohio Board of Cosmetology and prepares students for the Ohio Board of Cosmetology Licensing Exam.

Smile, and the world will smile back as you help patients maintain healthy teeth and gums. You'll be the dentist's second pair of hands as you provide chairside assistance during dental procedures. You'll learn to professionally polish teeth, take dental x-rays, prepare dental materials and instruments, make crowns and bridges and manage the dental office. Graduate to a good job in a dental practice or enter college to become a dental hygienist, lab technician or even a dentist. Certification exams for Registered Dental Assistant, Radiology, and Cardio- Pulmonary Resuscitation are available. With further education, possible career paths include Expanded Functions Dental Assistant (EFDA), Dental Hygienist and Dentist.

HEALTH CAREERS

Ohio College Tech Prep

Credit: Year One: 3.0 elective, 1.0 Anatomy & Physiology (Both Health Careers and Anatomy & Physiology must be passed for promotion to Year Two). Year Two - 4.0 elective or 3.0 elective 1.1 Pathophysiology

Fees: Year One - \$162.00 Year Two - \$115.00

Wanted: Caring, compassionate people for careers in the health field. In Year One, all students take a core curriculum and learn basic health care skills. In Year Two, students have the opportunity to earn their State-Tested Nurse Assisting and/or Phlebotomy certifications. Certifications available: CPR, IC 3 Certification, Phlebotomy, and State-Tested Nurse Assistant. Prerequisites for the course include grades of C or better in Algebra I and Biology; a GPA of at least 2.0 is required.

SPORTS MEDICINE EXERCISE

Ohio College Tech Prep

Credit: Year One: 3.0 elective, 1.0 Anatomy & Physiology (Anatomy & Physiology must be passed for promotion to Year Two). **Year Two:** 4.0 elective OR 3.0 elective, 1.0 Pathophysiology

Fees: Year One - \$30.00 Year Two - TBD

This program is designed for students interested in sports, exercise, conditioning, nutrition, and fitness! The pathway for this program can lead you to careers in physical therapy, occupational therapy, athletic training, and more. This challenging program provides instruction into techniques approved by the American College of Sports Medicine (ACSM) and the National Strength and Conditioning Association. It includes the development of a state-of-the-art fitness facility complete with diagnostic and therapeutic equipment. Students will work in exercise and sports environments with professional athletic trainers and learn how to prevent and heal injuries using advanced therapeutic techniques.

CVCC Law & Public Safety

FIRE & EMS Academy

Ohio College Tech Prep

Credit: Year One: 3.0 elective, Homeland Security Foundations of Firefighting & EMS

1.0 Anatomy & Physiology (Required)

Year Two: 4.0 elective, State of Ohio Fire Academy, EMT-B Training, EMT-B Training

Fees: Year One - \$180.00 Year Two - \$170.00

Students in this program will concentrate on a Public Safety Core which includes concepts related to a wide range of public safety professions, including search and rescue, firefighting, environmental protection and emergency medicine. Students will concentrate on the Emergency Medical Technical (EMT) program and prepare to pass the National Emergency Medical Technical (EMT) exam. Students will then begin the training for Firefighter 1 & 2 certification.

CVCC Construction Technologies

BUILDING & PROPERTY MAINTENANCE

Credit 4.0 elective

Fees: \$100

Students needing entry-level skills are taught the basic elements of building, grounds and equipment maintenance, as well as basic custodial services. The emphasis is on the acquisition of employability skills and basic competencies needed for entry-level jobs in these fields. Students have the opportunity to acquire OSHA 10-Hour Safety certification. This is a one-year course with the option to return for a second year determined on a case-by-case basis. Reapplication is required. Counselor recommendation is required for admission to this program.

CONSTRUCTION TRADES

Ohio College Tech Prep

Credit: Year One - 4.0 elective OR 3.0 elective, 1.0 Algebra II/ Trigonometry

Year Two - 4.0 elective OR 3.0 elective, 1.0 Algebra II

Fees: Year One - \$190; Year Two - \$140

Students in this program will be trained in the building, remodeling, maintenance and repair of residential/commercial buildings and homes. You and your classmates will learn about building, remodeling, maintaining and repairing public or private buildings and homes. You'll acquire basic skills in carpentry, drywall installation, roofing, masonry, wiring, plumbing and related skills such as safety, mathematics, blue-print reading and estimating. At graduation, jump directly into an entry-level job or continue your education as an apprentice. Students will acquire OSHA 10-Hour Safety certification. This program is accredited by the National Center for Construction Education & Research (NCCER).

ELECTRICAL SYSTEMS

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: Year One - 4.0 elective

Year Two - 3.0 elective, 1.0 Construction Math

Year One - 4.0 elective

Fees: Year One - \$138 Year Two - \$75

With a growing shortage of qualified electrical workers, it has never been a better time to join the electrical industry. There are plenty of opportunities available in this high demand field. Each student is provided with trade-related classroom training that produces competency and pride that lead to true craftsmanship. Learn how to use many of the latest tools and technologies with hands on training in our fully equipped lab. The electrical program's diversified coursework gives students a strong foundation in electrical systems installation and repair, in addition to receiving skill training working and earning a paycheck on the job. Electrical Systems is now in partnership with Ohio's Pre-Apprenticeship program. This program is open to seniors, but preparation starts during the junior year. The School-to-Apprenticeship program helps students enter an occupation requiring a high level of skill. Students in the School-to-Apprenticeship program can complete up to one year of apprenticeship credit during their senior year. Students learn competencies necessary for entry-level employment in their career area

HEATING & AIR CONDITIONING

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: Year One - 4.0 elective, 1.0 English 11

Year Two - 3.0 elective, 1.0 Construction Math

Fees: Year One - \$130 Year Two - \$75

Great jobs, great work, great future! With the national focus on energy usage and alternative energy sources, jobs in HVAC are expected to have higher than average growth. In our state-of-the-art facilities, you will build skills in heating, refrigeration, air conditioning, refrigerant handling, airflow, building science, and combustion analysis. With several pathways directly into industry, apprenticeships, or on to college, the HVAC career path is one of the most diverse programs offered. This program is accredited by the Partnership for Air Conditioning Heating and Refrigeration Accreditation (PAHRA).

CVCC **E**ngineering & Science Technology

ENGINEERING TECHNOLOGY

Ohio College Tech Prep

Credit: Year One - 4.0 elective **OR** 3.0 elective, 1.0 Algebra II/ Trigonometry or Pre-Calculus . **Year Two** - 3.0 elective, 1.0

Advanced Physics (required) **OR** 2.0 elective, 1.0 Advanced Physics, 1.0 Algebra II/ Trigonometry or Pre-Calculus

(For promotion to Year Two, students must have passed Algebra II in Year One at CVCC or elsewhere or be enrolled in Algebra II in Year Two).

Fees: Year One - \$100 Year Two - \$50

Design, build and test solutions to real-world problems! In a program that has achieved Project Lead the Way National Accreditation, you'll learn engineering concepts and technology such as applied logic, problem-solving, digital electronics, computer aided design, robotics and computer-integrated manufacturing. The hands-on, project-based approach lets you apply your skills to real situations. Imagine designing, building and testing a more efficient electric car or developing a device to aid amputees in giving themselves insulin. In practice, you'll pick your own real-world problems to solve and graduate ready for a college engineering program. Students will draw on concepts and technology from CAD/CAM, engineering design, electricity/electronics, robotics and more. OSHA 10-Hour Safety certification is available. A course grade of C or better in Algebra I is required for admission, and successful completion of geometry is strongly recommended before taking this course.

ARCHITECTURAL & MECHANICAL DESIGN

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: **Year One** - 3.0 elective, 1.0 Algebra II/ Trigonometry or Pre-Calculus *or* Pre-Calculus must be taken at CVCC in Year One.)

Year Two - 4.0 elective per year OR 3.1 elective and 1.0 Pre-Calculus (For promotion to Year Two, students must have passed Algebra II in Year One at CVCC or elsewhere.)

Fees: Year One - \$100 Year Two - \$50

Buildings, products, roads – you name it and you'll learn the computer applications for preparing detailed drawings used in designing, engineering and manufacturing these products. From simple blueprints to 3-D interactive images, you'll learn the tool that engineers, architects and designers use to create various products and prepare plans for their production. Prepare for a career in drafting, architecture, product design, interior design or engineering. Students can earn the following certifications: NOCTI, Solidworks, AutoCAD, IC³ (Internet & Computing Core Certification), Adobe Certified Associate and OSHA 10-Hour Safety.

CVCC **M**anufacturing Technologies

MACHINE TECHNOLOGY

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: -4.0 elective OR 3.0 elective per year

Fees: **Year One - \$75 Year Two - \$50**

Your only limit is your imagination, as you learn design, programming, welding and hands-on machine fabrication skills to turn raw materials into just about any finished product – motorcycle frames, robots, custom car parts, artwork, household items, precision machine parts for aircraft and more. You'll learn to use plasma burn systems, CNC machining and turning centers and all machine tools associated with machine building.

Your projects will be enhancing through 3-D solid graphics as you simulate projects prior to the layout and build process. Graduate ready for post-secondary technical colleges, apprenticeships or immediate entry into the machining, welding/fabrication and machine building industries. Students are eligible to take the National Occupational Career Testing Instrument (NOCTI) in the following areas: Machine Technology, Welding, CAM/CAD, and General Manufacturing. Students will also be certified in OSHA 10-Hour Safety.

CVCC **T**ransportation Systems

AUTO BODY REPAIR & REFINISHING

Ohio College Tech Prep

Credit: -4.0 elective per year

Fees: **Year One - \$185** (Fees include) **Year Two - \$135** (uniform rental)

If you like mechanics but have an artistic flair, you'll enjoy restoring damaged cars to their former glory. In Auto Body, our ASE-certified instructor will teach you welding, fiberglass and metal repair, frame straightening, custom painting and refinishing, parts replacement and quality customer service. Our students have restored antique autos and often work on their own cars.

Prepare for a career in body repair, painting or even insurance estimating. Students have the opportunity to earn Assessment Certifications in the following areas: Painting & Refinishing, Structural Analysis & Damage Repair, Non-structural Analysis & Damage Repair, Mechanical & Electrical. OSHA 10-Hour Safety certification is available.

AUTO SERVICE TECHNOLOGY

Ohio College Tech Prep

CT² Career Technical Credit Transfer

Credit: Year One - 3.0 elective, 1.0 English 11 Year Two - 4.0 elective

Fees: Year One - \$115 Year Two - \$140

Twenty-first century automobiles carry more computers than the Apollo missions to the moon. In this ASE/NATEF-certified program you'll learn to diagnose, adjust, repair and replace the mechanical and electrical parts of the sophisticated that is today's late-model car. Using state-of-the-art equipment such as scan tools, you'll learn to overhaul engines, service transmissions, fix electrical systems, repair brakes and suspensions and much more.

POWER EQUIPMENT TECHNOLOGY

Ohio College Tech Prep

Credit: 4.0 elective per year

Fees: Year One - \$183 Year Two - \$158

Versatility is your strength when you complete this program in engine mechanics. Under the guidance of an ASE- and EETC-certified instructor, you'll become adept at repairing all types of engines – small, light, heavy-duty, two- and four- cycle, gas and diesel – and their related systems, such as air and hydraulic brakes, electrical systems, power take- off accessories and transmissions. This program is accredited by the Equipment & Engine Training Council (EETC).

CVCC **P**rograms Designed for Students with Special Needs

JOB TRAINING

Credit: 4.0 elective per year

Fees: None

Job Training is a community-based, career- technical education program designed to help individuals with disabilities obtain, maintain and advance in competitive employment. If a student demonstrates individual job readiness, the Job Training team emphasizes the idea of matching student abilities with existing employer needs. The program instructor networks within the community to find successful leads within the community, supports the initial training period, provides regular follow-along and retention services, and works with students to promote maximum growth in their natural employment setting. In addition to working with employers and students, the Job Training Coordinator provides regular communication to any adult services that may be in place to promote a smooth transition to adult services. Job Training is recommended to be a one-year program.

SALES & SERVICE FUNDAMENTALS

Credit: 4.0 elective per year

Fees: \$30 each year

Sales & Service is a marketing education program designed to provide students with disabilities with the knowledge, skills, and attitudes necessary to succeed in a service occupation, while developing employability skills and competencies needed in their transition to work. It gives students the right balance of class work and practical applications, and includes both in-house and community-based supervised work experiences. Both sections of this program, Level One (a.m.) and Level Two (p.m.), can be repeated as necessary to meet individual needs. Annual re-application is required.

TRANSITION TO WORK

Credit: 4.0 elective per year

Fees: \$30 each year

Transition to Work is a program designed to assist students in the development of appropriate work behaviors, employability skills and social skills for the workplace. This is done through simulated work and piecework in-house in Transition to Work PM and work at non-paid, community-based training sites in Transition to Work AM. Either section of this program can be repeated to meet individual needs as determined by the recommendations of the IEP team, which will include appropriate consideration of program referral guidelines. Annual re-application is required.

