Cedarville High School
Course of Study
2026-2027

Cedarville High School
194 Walnut Street
Cedarville OH 45314

937.766.1871

www.cedarcliffschools.net

COURSE OF STUDY
TABLE OF CONTENTS

INTRODUCTION

The proper choice of courses is important to an individual's short term and long-term success and happiness. Thoughtful consideration by both parent and student is needed before making a final course selection. State requirements, school requirements, future educational and career goals, interests and abilities should all be considered when enrolling in classes. A student's choice of classes reflects the type of student he/she is; admission committees of colleges and universities often determine a student's future success in college based upon the academic intensity of the classes he/she took in high school. It is vitally important that a student has at least four/five academic core classes each and every year of his/her high school career. Parents are invited to call and arrange a conference with our Guidance Counselor or Principal.

EXTRA CURRICULAR ELIGIBILITY GRADES 9-12

Extra-curricular activities are *out-of-class* activities and competitions not tied to a specific class and/or grading system. Participation in extracurricular activities is a privilege for **full-time (5 or more credits for each nine weeks)** Cedarville and Credit Flexibility students who are enrolled in the equivalent of five one-credit classes per day, GCCC, CCP or homeschooled students who have met specified academic, attendance, and behavioral eligibility qualifications.

Academic eligibility is determined by the number of credits passed, NOT the number failed, as well as grade point average (GPA). A student must have passed subjects the preceding grading period, both nine weeks and semester that would be equivalent to 5 or more credits that count toward graduation. In addition, a GPA of 1.5 or higher must have been earned the previous nine weeks. CCP, Credit Flexibility, and homeschooled students must have online faculty members, supervisor, or teachers notify CHS in writing of passing grades at the end of the nine weeks and at the completion of any course. An incomplete may be made up within the specified time to regain eligibility; however, failing grades cannot be made up after the completion of the grading period. Summer school, night school, correspondence classes, etc., cannot substitute for failed courses.

Students who struggle in core subjects should enroll in enough high interest electives to maintain eligibility. Students planning on participating in college athletics should be sure the core course total and their quality meet NCAA requirements. The NCAA does not have the same eligibility requirements as the OHSAA; therefore, students who are taking Credit Flexibility classes and wish to participate in athletics in an NCAA school should check with the guidance counselor to determine whether or not his/her courses meet the requirements of the NCAA.

NCAA REQUIREMENTS FOR COLLEGE FRESHMEN

The minimum standard is a 2.0 GPA in Core Classes and earned 16 Core Classes that consist of 4 years of English; 4 years of Math, including one year algebra and higher; 3 years of Social Studies; 3 years of Natural/Physical Science, including two lab courses; 2 years additional academic courses in any of the above areas, or foreign language, philosophy, or comparative religion. For additional information about academic eligibility requirements, visit the website www.ncaa.org. Visit https://www.naia.org/landing/index for NAIA Requirements.

SCHEDULING

Scheduling of classes should be a cooperative effort among the student, parents, and school officials. Students should take courses that will both challenge and prepare for life beyond high school. No student shall be denied admission to the Cedar Cliff School District or to a particular course or instructional program or otherwise discriminated against for reasons of race, color,

religion, national origin, sex, disability, or any other basis of unlawful discrimination.

Scheduling Process
Students in 9th - 12th grades will be asked to follow this procedure for scheduling:

- Choose an equivalent of 7 classes.
- List required classes first, then electives in the order of preference.
- Math selections must have the teacher's initials to confirm proper sequence.
- Office, teacher or library aide requests with approval (one aide per teacher and student).
- Schedules will be filled by the priority you request unless there is a conflict.

Students in 8th grade may take Art I, Algebra I, HS Band and/or HS Choir as an elective. These courses will be on the final transcript and be included in the High School GPA.

Schedule Adjustments
Courses selected are meant to determine the students' course of study for the following year. Once choices are made, students and parents must make every effort to adhere to the selections.

It should be understood that when students register for courses, books, workbooks, and classroom supplies are ordered to accommodate. The student has an obligation to make realistic and meaningful course selections**.** Students will be notified when they can make changes to their schedules. Schedule adjustments may be approved by the principal if:

- The student failed and needs to repeat the course.
- The student completed a course in summer school.
- The student's schedule has an error.
- The student wishes to drop one class for a more rigorous class.
- Other requests that meet principal, counselor, and parent approval.
- The student received a *D* in a course and chooses to repeat the course. (When classes are repeated both grades will appear on the transcript and be averaged. Only credit from one class will be granted.)

Add & Drop Courses
The **first week of a one-credit or semester class**, a student may drop it and add a new class with no grade being assigned for the original class. After the first full week, a student who chooses to drop a one-credit or semester class will receive a *WDF* which will become a part of their GPA. Once the second nine weeks begins, a student who drops a one credit class will receive an *F* for the class and the grade will become a part of their GPA. Written permission from the parent must be received.

STUDENT COURSE LOAD
Our seven period day is designed to allow students to pursue curricular interest beyond the 22 credits for graduation. Students are not permitted to take more than one study hall and/or office, teacher or library aide position per year. Students meeting certain academic requirements may earn ¼ credit, as an approved teacher aide, library aide or office aide.

GRADE POINT AVERAGES & CLASS RANK
Class Rank is a numerical comparison assigned to students within a class. Class Rank is determined by the cumulative weighted GPA. A student may have to meet certain credit

requirements earned as a full time student at an accredited school. Class Rank GPA's are calculated in the following manner:

1. Math, Choir, Band and Art I taken in 8th Grade are included in class rank with courses taken in 9th-12th Grades.
2. If a failed course is repeated, both grades become part of the GPA and appear on the student's transcript. Only one credit is earned for the class.
3. The final letter grade for the course converted to a numerical value: A=4, B=3, C=2, D=1, and F=0. Credit cannot be issued for pass/fail classes. (1/2 credit courses receive 1/2 the numerical value.)
4. The value multiplied by the credit for the course equals points for that course. The total points divided by the total credits attempted equals the GPA.

Valedictorian and Salutatorian GPA is calculated in the following manner:

1. High school and CCP academic courses from grades 7-12 are included.
2. Some courses are designated as 5 point courses which are used to determine a student's weighted GPA (see list below); A=5, B=4, C=3, D=2, F=0. The other courses are valued as A=4, B=3, C=2, D=1, F=0. Classes taken at summer school, credit flexibility, etc., shall not count as 5 point courses unless it is a CCP course
3. The final letter grades for the course are used in this calculation. End of year awards, and senior grades will be determined at the end of the third nine weeks.
4. The grade value multiplied by the course credit equals the points for the course.
5. The total points divided by the total academic credits equal the GPA.
6. See Student Handbook for additional Val, Sal requirements.

Five point courses or their CCP equivalent are used when determining a student's weighted GPA. The following are weighted courses currently offered at CHS.

English: Writing & Comp, ENG 1600, ENG 1111, ENG 1112
Language: Spanish III (SPN 1112), Spanish IV (SPN 2111)
Math: Pre-Calculus (MTH 1340), Calculus (MTH 2200)
Science: AP Biology, AP Chemistry, Physics, PHY 1500, Anatomy and Physiology
Social Studies: PLS 1100, HST 1120
Agriculture: Science & Technology of Food, Business Management for Agriculture
Computer Science: Intro to SolidWorks 3D Design, Advanced SolidWorks 3D Design

GRADUATION REQUIREMENTS

A student must successfully complete the required courses listed below, accrue at least 22 credits after the 8th grade, and pass all parts of the State End of Course or qualify for one of the alternate pathways to graduation in order to graduate from Cedarville High School. A "Graduating Class" is defined as a group of individuals who have completed the minimum state and local requirements for a high school diploma found in Standards EDB-503-1 of the 1986 Revised Standards for Ohio High Schools and in Local Board Policy. Students who have met all credit requirements but have not passed all parts of the State End of Course Exams will be permitted to participate in graduation ceremonies.

Credits Earned	Discipline	Required Courses or Equivalent
4	English	English I, English II, English III, one English elective
4	Math	Algebra I, Geometry, Algebra II, one Math elective
3	Science	Physical Science, Biology I, one Science elective
3	Social Studies	World History, U.S. History, Government

½	Health	
½	Physical Education	
½	Personal Finance	
1	Elective	Fine Arts

High school credits earned prior to 9th grade will show on transcript (unless changed by an IEP team) and count toward class rank as well as accumulative GPA.

Students must earn a minimum of 22 credits in the specified subjects and take the required end of course exams. Students must also earn a passing score on Ohio's Algebra I and English II tests. If students are unsuccessful after retaking these two tests they will then have 3 additional options to show competency by demonstrating career focused activities, enlist in the military or completing college coursework. Lastly, students must show readiness by earning at least two of the following diploma seals (one of the two seals must be Ohio-designed):

- Ohio Means Jobs Readiness Seal (Ohio)
- Industry-Recognized Credential Seal (Ohio)
- College-Ready Seal (Ohio)
- Citizenship Seal (Ohio)
- Science Seal (Ohio)
- Honors Diploma Seal (Ohio)
- Seal of Biliteracy (Ohio)
- Technology Seal (Ohio)
- Community Service Seal (Local)
- Fine and Performing Arts Seal (Local)
- Student Engagement Seal (Local)
- Military Enlistment Seal (Ohio)

http://education.ohio.gov/getattachment/Topics/Ohio-s-Graduation-Requirements/Sections/Classes-of-2023-and-Beyond-Graduation-Requirements/GradReq2023.pdf.aspx?lang=en-US

GRADUATION SEALS

Community Service Seal

- A student may earn a Community Service Seal by completing a minimum of 25 hours of community service during high school in a high-quality community service experience. A high-quality community service experience achieves the following:
- Helps students make invaluable connections in their community.
- Gives students an opportunity to explore possible career options in the public, nonprofit and philanthropic sectors and gain valuable work skills.
- Exposes students to the needs of their community and promotes an understanding of and the value in civic engagement as well as volunteerism.
- Provides students with an opportunity to demonstrate social and emotional skills, academic knowledge, leadership, professionalism, and critical reasoning.
- Community service experiences must be approved by the High School Career Counselor. Students will be required to submit a completed community service agreement that is signed by the Career Counselor, student, parent and an individual at the organization who will oversee the student's work, and will include the following:
    - Name and description of the organization
    - Description of the proposed community service activities
    - Timeline for completing community service hours

    - meet NHS Pillar of Service as defined by the NHS standards OR participate in Key Club for at least one year
    - complete a service portfolio in a course such as FFA or Computer Software Design for local business or community group
    - receive Community Service Certificate from GCCC
- Students who donate blood three or more times during high school will earn both the Community Blood Center's Red Honor Cord and the Community Service Seal.

Students will be required to submit a completed community service agreement that is signed by the advisor, student, parent and an individual at the organization who will oversee the student's work. Community service hours must be documented and verified by an individual at the community service organization before they are submitted to the school advisor for final approval.

Fine/Performing Arts Seal
A student may earn a Fine/Performing Arts Seal by earning at least two credits of approved fine arts program electives in one of the following disciplines: visual arts, music, or media arts during high school.

Students may also earn the seal by participating in two full seasons of a Board-approved fine or performing arts extracurricular activity in one of the recognized disciplines. One season of extracurricular activity will be considered the equivalent of one class credit toward earning the seal. In order for participation in a fine/performing arts extracurricular activity to count toward earning the seal, students must participate in the entire scheduled season of the activity. Participation must be verified by the program advisor or coach. Students may earn two credits in one year by participating in a co-curricular activity such as choir, theater or band. One credit will be achieved by earning a passing score in the class component, and one credit will be earned by participating during the entire season of the extracurricular activity component.

The Board believes that participation in fine and performing arts programs supports the development of critical skills such as creativity, sensory processing, communication, problem-solving, cultural awareness, and expression. It also helps students gain confidence that will assist them throughout life.

Student Engagement Seal
Students may earn a Student Engagement Seal by participating in at least two Board-approved extracurricular activities during high school. Eligible activities include participation in an athletic program, recognized school club or student government. This also includes clubs and organizations at GCCC such as Career Tech Student Organization (CTSO). In order for participation to count toward earning the seal, students must participate in the entire scheduled season of the activity. Participation must be verified by the program advisor or coach.

The Board believes that meaningful participation in Board-approved extracurricular activities helps to develop a well-rounded student who is more engaged in the school community.

Military Enlistment Seal
Provide evidence that a student has enlisted in a branch of the U.S. Armed Forces; or Participate in an approved JROTC program.

GRADE ASSIGNMENT

Grade assignment will be made on the number of academic credits earned by the first day of school:

Assignment to 9th grade: Completion of grade 8
Assignment to 10th grade: Completion of 6 credits
Assignment to 11th grade: Completion of 12 credits
Assignment of 12th grade: Completion of 16 credits

Students who are within ½ credit of moving to the next assigned grade level will advance to the next assigned grade in January if they have successfully received passing grades the first semester of the school year in which they desire to move.

COLLEGE CREDIT PLUS

College Credit Plus (CCP) is a program established by the State of Ohio and Board of Regents to provide opportunity for academically talented students to take college classes during high school (Grade 7-12). These courses may be taken for high school and college credit. The expense of these courses is covered by the participating colleges and the State Department of Education. The funds for the State Department of Education's share are deducted from the state funds provided to our district. For more information please visit: http://education.ohio.gov/Topics/Quality-School-Choice/College-Credit-Plus . **The deadline for enrollment in the CCP program is April 1 for fall CCP enrollment. Students must enroll each year to participate.** Please see the student handbook on full-time status requirements for CCP students.

Cedarville High School also allows students to take courses at colleges not participating in CCP. The expenses associated with these courses are the responsibility of the student/family. These courses may be counted for high school and college credit if pre-approved and from an accredited institution. See the school counselor for more information and to receive CCP enrollment forms.

Course	Course Code	Accuplacer	ACT Score
Pre-Calculus	MTH 1340	Reading: 230 Arithmetic: 250; AAF: 266	ACTR: 20, ACTM: 23
Calculus	MTH 2200	Reading: 230 Arithmetic: 250; AAF: 281	ACTR: 20, ACTM: 26
Adv English IV	ENG 1600 ENG 1112	Prereq ENG 1111	Prereq ENG 1111
Adv English III	ENG 1111	Reading: 240 WritePlacer: 5	ACTR: 21, ACTE: 18
Spanish III	SPN 1112	Reading: 240 WritePlacer: 5	ACTR: 21, ACTE: 18
Spanish IV	SPN 2111	Reading: 240 WritePlacer: 5	ACTR: 21, ACTE: 18
General Physics with Algebra	PHY 1501	Reading: 230 Arithmetic: 250; AAF: 250	ACTR: 20, ACTM: 22
Intro to American Politics	PLS 1100	Prereq ENG 1111	Prereq ENG 1111

Course	Course Code	Accuplacer	ACT Score
Western Civilization since 1600	HST 1120	Reading: 230 WritePlacer: 4	ACTR: 20, ACTE: 17

CREDIT FLEXIBILITY

In accordance with Senate Bill 311, Ohio's school districts, community schools and chartered non-public schools are required to develop a plan for implementing methods for students to earn units of high school credit based on the demonstration of subject area competency, instead of or in combination with completing hours of classroom instruction. This plan, known as ***Credit Flexibility***, shifts focus from evaluating student learning based on "seat time" to assessing students' demonstrated academic and skill level or performance. Although the Carnegie units or "seat time" requirements will remain the same, the ***Credit Flexibility*** option recognizes that high quality learning is not restricted to the traditional classroom and offers students opportunities to earn high school credits through flexible methods.

With ***Credit Flexibility***, high school students can earn credit in three ways or in a combination of the following:

1. Completing traditional coursework,
2. Testing out or otherwise demonstrating mastery of the course content; or
3. Educational options: distance learning, online, internship, independent study, CCP and college accredited classes. Credits earned from another local school district while a student at Cedar Cliff Local Schools is not part of the credit flexibility program.
4. Any combination of the above.

The opportunity to take advantage of the ***Credit Flexibility*** is just that, an opportunity to gain knowledge and skills outside of the traditional school setting and one that is initiated and/or generated on the part of an individual *high school* student. It is not designed as a way for a student to circumvent difficult classes and/or teachers in order to boost his/her GPA and position within the class rank. Cedar Cliff Local School District is not responsible for developing Credit Flexibility schedules or proposals for a student and/or for any of the costs incurred by a student's participation in the program. Parents should also be aware that Credit Flexibility credits may not be necessarily accepted by colleges or universities, especially in the core academic areas. A student is responsible for keeping documentation for the Credit Flexibility class for future reference in order to justify his/her Credit Flexibility experience when applying to post-secondary pursuits. This shall be limited to one credit per academic year and/or three credits while enrolled in Cedar Cliff Schools.

The student along with a parent/guardian must attend a Credit Flexibility meeting to participate in the program. A student must reapply each year he/she wishes to participate in the program. Students do not qualify for this program until the first day of school of their freshmen year. Students must notify the school by May 1st to be considered for the following school year.

SUMMER SCHOOL, EVENING SCHOOL OR CORRESPONDENCE

Seniors may earn credit needed to meet graduation requirements by taking summer classes, evening classes and/or correspondence classes. No correspondence credit will be given if the correspondence class is already offered in our course of study. However, if the student who is not a senior has already failed a required credit class, he/she may take the class through correspondence upon the approval of the principal. These credits must be approved in writing

by the principal prior to the student enrolling in the course. (No more than 2 original credits toward graduation may be earned in this manner.) Summer courses cannot be used to regain extracurricular eligibility.

Students repeating a high school class during summer school to make up for the failed class must have the summer school provider approved by the office. A student may qualify for sixty hours of instruction, instead of the normal one hundred and twenty hours per credit. Students who present the principal with written verification, from the teacher, that the student attempted seventy-five percent of the class work during the school year may receive approval from the principal to receive full credit for the sixty hour make-up.

GREENE COUNTY CAREER CENTER STUDENTS

Students who attend the Career Center may be able to enroll in one or more courses at CHS under certain conditions. Juniors and seniors who are able to be in class by 2:30 pm may take a non-laboratory class 7th period.

NATIONAL HONOR SOCIETY

Students must have at least a cumulative unweighted 3.50 grade point average and have completed an average of four academic subjects each year in order to be considered for National Honor Society. Students must also be taking three academic classes their senior year. Other requirements not related to academics must also be met. See student handbook for more NHS requirements.

COLLEGE PROGRAM OPTIONS

College Preparatory Program

The objective of the college preparatory program is to prepare a student for a four year/NCAA college or university. It is recommended a college preparatory student take:

- 1 credit of Health and Physical Education
- 4 credits of English (English I, English II, English III and one English elective)
- 4 credits of Math (Algebra I, Algebra II, Geometry, and one elective)
- 3 credits of Social Studies (World History, American History, American Gov)
- 3 credits of Science (Physical Sci, Bio I, one elective: AP Bio, AP Chem, Chem, Physics)
- 3 credits of the same Foreign Language (Spanish I, Spanish II, Spanish III)
- 1 credit of Fine Arts (One art elective class)

Two Year Community College/Careers Program

The objective of the Vocational Program is to prepare the student for a job after high school or to attend a two year community college program. The student will take all four years of his/her classes at Cedarville High School. The student needs to complete 22 credit hours which should include:

- 1 credit of Health and Physical Education
- 4 credits of English (English I, English II, English III and one English elective class)
- 4 credits of Math (Algebra I, Geometry and/or Algebra II or one math elective class)
- 3 credits of Social Studies (World History, American History, American Gov)
- 3 credits of Science (Physical Science, Biology I and one science elective class)
- 1 credit of the same Foreign Language (Spanish I)
- 1 credit of Fine Arts and/or Practical Arts

Vocational Careers Program—Greene County Career Center

The objective of the Vocational Program is to prepare the student for a job after high school.

The student will take the first two years of this program at Cedarville High School and the last two years will be spent in concentrated study in a particular vocational area at Greene County Career Center. Prior to junior year a student needs to complete 10 high school credits which should include:

1 credit of Health and Physical Education
2 credits of English (English I and II)
2 credits of Math (Algebra I and Geometry)
2 credits of Social Studies (World History and American History)
2 credit of Science (Physical Science and Biology I)

Recommended Schedule for the College Preparatory Program

9th Grade	**10th Grade**
English I	English I, English II
Alg I, Geometry	Alg I, Geometry, Algebraic Math, Alg II
Physical Science	American History
World History	Spanish II
Spanish I	Biology
Physical Education	Health and Personal Finance
Elective	Elective
11th Grade	**12th Grade**
Eng III	Eng IV , Writing & Comp, Creative Expressions
Algebraic Math, Alg II, Pre Calculus	Alg II, Calculus or Advanced Quantitative Reasoning
Gov	Western Civilization , Current Issues
Spanish III	Spanish IV
Chemistry, Physics, AP Biology, AP Chemistry	Chemistry, Physics, AP Biology, AP Chemistry
Elective	Elective

Recommended Schedule for the Careers Sequence

9th Grade	**10th Grade**
English I	English II
Physical Education	Health Personal Finance
Physical Science	Biology I
Alg I, Geometry	Geometry, Alg II
World History	American History

Elective	Elective

HONORS DIPLOMA REQUIREMENTS

High school students who exceed graduation requirements in Ohio are eligible to receive an Honors Diploma. Currently, there are six types of Honors Diplomas. Students are only eligible to earn one of the six Honors Diplomas. Visit https://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Contacts-and-Resources/Honors-Diplomas/Academic-Honors-Diploma to review the requirements to meet the Ohio Diploma with Honors. Students must meet ***all but one*** of the following criteria, unless it is a minimum graduation requirement. Students must meet general graduation requirements to qualify for honors diplomas.

ACADEMIC HONORS DIPLOMA

Math	Fourth Math must be higher than Algebra 2
Science	One additional unit Advanced Science
Social Studies	One additional unit Social Studies
World Languages	3 sequential units of one world language, or no less than 2 sequential units of two world languages studied
GPA	3.5 on a 4.0 scale
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher
Seal Requirement	Earn two additional diploma seals, not including Honors Diploma Seal
Experiential Learning	Field Experience & Portfolio, Ohio Means Jobs Readiness Seal*, or Work-Based Learning

*Students can use OMJ Readiness Seal in 2 additional seals requirements if it is not used in Experiential Learning.

Student Strength Demonstration Replacement

Students can use the Student Strength Demonstration to replace one of either the ACT/SAT, GPA or World Language requirement for any Honors Diploma. The Student Strength Demonstration options are listed below. The same options exist for each of the six honors diplomas* but, where relevant, should reflect coursework or experiences relevant to the theme of the Diploma. For example, a student earning the Academic Honors Diploma and using the College Credit Plus option to replace another requirement for the diploma should have College Credit Plus courses relevant to the Academic Honors diploma.

Options:

- College Credit Plus: 12 total College Credit Plus credit hours
- Advanced Placement: three courses with score of 3 or higher on AP tests
- Career-Technical Assurance Guide (CTAG): 12 total credits
- Apprenticeship/Pre-Apprenticeship: Completion or Evidence of Acceptance if required to be older than 18
- WorkKeys: Score of 6 or higher on all tests (*void for Career-Tech Honors Diploma)
- Armed Services Vocational Battery: Score of 50 or above on the ASVAB
- Work-Based Learning: 250 total hours of work-based learning

CEDARVILLE HIGH SCHOOL
COURSE DESCRIPTIONS

AGRISCIENCE EDUCATION

Ag Food and Natural Resources* – 712 – 1 credit
This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry. Additionally, basic mechanical principles will be explored in metal working, carpentry, and small engines. All students enrolled will become FFA members and will pay annual FFA dues. Students may also receive an extra .25 credit if they complete a summer Supervised Agricultural Experience project. Students will be subject to an instructional fee, set annually, which covers attendance at Farm Science Review and industry credentials (ex. OSHA-10 Card, Pesticide Applicator's License, First Aid, CPR, etc.)

Animal and Plant Science – 718 – 1 credit – Prerequisite: Ag Food and Natural Resources
Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined. All students enrolled will become FFA members and will pay annual FFA dues. Students may also receive an extra .25 credit if they complete a summer Supervised Agricultural Experience project. Students will be subject to an instructional fee, set annually, which covers attendance at Farm Science Review and industry credentials (ex. OSHA-10 Card, Pesticide Applicator's License, First Aid, CPR, etc.). This class can count as a Science credit.

Mechanical Principles/Basic Home Repair – 720 – 1 credit (Jr/Sr) – Prerequisite: Ag Food and Natural Resources
Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills. All course standards will be applied to home ownership and maintenance. The goal of the course is to have students leave with the skills needed to do basic home projects. All students enrolled will become FFA members and will pay annual FFA dues. Students may also receive an extra .25 credit if they complete a summer Supervised Agricultural Experience project. Students will be subject to an instructional fee, set annually, which covers attendance at Farm Science Review and industry credentials (ex. OSHA-10 Card, Pesticide Applicator's License, First Aid, CPR, etc.)

Business Management for Agricultural and Environmental Systems – 721 – 1 credit – Prerequisite: Ag Food and Natural Resources**

Seniors will be given preference to this course geared toward students who are upperclassmen. Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses that are agriculturally-centered. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified. All students enrolled will become FFA members and will pay annual FFA dues. Students may also receive an extra .25 credit if they complete a summer Supervised Agricultural Experience project. Students will be subject to an instructional fee, set annually, which covers attendance at Farm Science Review and industry credentials (ex. OSHA-10 Card, Pesticide Applicator's License, First Aid, CPR, etc.)

Science and Technology of Food -723- 1 Credit

Students will examine the research, marketing, processing and packaging techniques applied to the development of food products. Learners will examine nutrient content and their chemical makeup, while applying principles of chemistry to the development of food products. They will examine and implement food safety, sanitation, and quality assurance protocols. Government regulations and food legislation will be examined and the implications for food science and technology will be identified. This class can count as a Science credit.

Prerequisite: Ag, Food, and Natural Resource

**Course may be taken concurrently with another course to meet this requirement. This prerequisite can be waived with instructor permission or completed in a credit-flux capacity in extreme emergencies only.*

***Students who successfully complete the course with a C or better, and pass the end-of-course exam with a 50% are eligible to receive college credit for this course as a CTAG Credit. CTAG Credit are college credits earned to assist students moving from Ohio secondary and adult career-technical institutions to Ohio public institutions of higher education.*

INDUSTRY-RECOGNIZED CREDENTIALS, BUSINESS & COMPUTER SCIENCE DEPARTMENT

Yearbook I, II, III, IV – 804 – 1 credit

Students will share in the responsibility for designing, producing and raising money to support the publication of the yearbook. Students will learn to utilize desktop publishing software, do photography, paste-up and page layout. Marketing skills will be developed in securing funding from advertising and other sources. Prerequisite: students must demonstrate basic typing and computer skills; application process.

Social Communications (Indian Info) – 807 – 1 credit

Students will learn communication skills by producing informative products such as social media posts as well as audio/visual episodes. Students will market school events to their peers and the community. These students should be leaders in their communities and have pride in their school, exemplified through enthusiastic school spirit. Prerequisite: students must demonstrate basic typing and computer skills; application process.

Technology Innovations – 809 – 1 credit

Technology Innovations is an introductory course where students explore the many ways computer science concepts are used in our modern world. Students learn how to manipulate computer graphics, develop multimedia presentations, create and edit digital photography and video, design and build web pages, develop computer games, establish cyber security safeguards, and explore the practical application of technology in a variety of different fields such as business, law enforcement, engineering, design, education, and throughout society. This is a great place to start if you want to know how technology can impact our everyday lives or are considering taking additional computer science courses at Cedarville High School. Also those planning a career in a computer science field such as Information Technology, Computer Office Technology, Business Technology, Computer Support Fields, or other technology related fields should enroll in this course. An optional independent study for three (3) points of industry-recognized credentials in either *Microsoft Word, Excel, AND/OR Powerpoint* is available in this course. Students will earn the Technology Seal upon successful completion of this course.

General Business Exploration – 818 – ½ credit

Business Exploration is designed to introduce students to the world of business. Here, they will learn the basics of running a business and what careers exist in the corporate world. Students explore concepts such as business administration, accounting, investment and finance, marketing, and other business related concepts. Students not only focus on ideas pertinent to a future career in business, they also get hands on experiences such as learning how to trade stocks using an actual stock trading platform, developing human resource (HR) solutions, solving business problems, enhancing workforce productivity, learning business accounting practices, creating marketing plans, and developing ways to maximize business profits. Any student considering starting their own business or that wishes to explore a career in business should take advantage of this opportunity to get a step ahead of the competition. A career pathway option using industry-recognized credentials in either *Customer Service & Sales* OR *Retail Industry Fundamentals* is available in this course.

Personal Finance – 819 – ½ credit

This course allows students to discover new ways to maximize their earning potential, explore skills for the wise use of credit and gain insight into the different ways of investing money including a yearlong stock market project. Various topics include: taxes, payroll, personal income, Federal and State taxes, and responsibilities of having credit, buying and renting a home, different types of insurance, planning for the future and banking calculations. This class emphasizes the use of calculators, spreadsheets and the Internet as a research tool. Students will have the opportunity to earn the Ohio Means Jobs Seal in this class. Required to take for graduation.

Computer Science Principles – 828 – 1 credit

This course provides students with an engaging and meaningful introduction to current and emerging computer science concepts and prepares students for many careers in advanced computer technologies including app development, gaming, robotics, and technology research and development. This hands on course turns students into real life computer programmers

where they will have fun developing their own apps, websites, and games along with learning multiple computer coding languages such such as JavaScript, Python, HTML, and others to accomplish a variety of tasks and to innovate unique solutions to modern problems. This course takes a creative approach to looking under the hood of a computer while preparing students for a future of technology and innovation. Whether as a career or as a productive citizen of the digital world, this course promotes computational thinking skills that span all disciplines. For those that are planning a career in a computer science field or that just want to expand their skills on the computer, this advanced course will help lead you to success in college and beyond. Students will earn the Technology Seal upon successful completion of this course. An optional independent study for one to three (1-3) points of industry-recognized credentials in multiple *Certipoint IT Certifications* AND/OR *Microsoft Word, Excel, and/or Powerpoint* is available in this course.

Introduction to SolidWorks 3D Design – 830 – 1 credit

This course is intended to teach the various stages of the 3D design process across numerous mediums, including digital images, animations, and additive manufacturing. Students will design and fabricate 3D objects using computer-aided design (CAD) software and 3D printers. Students will experience the design process and become familiar with the advantages and limitations of each 3D printing technology in terms of software/hardware precision, resolution, and material capabilities. Throughout the course students will be working directly with different companies, organizations, and individuals to design various products and solutions. This is a project-based, hands-on learning course that emphasizes creativity, collaboration, and self-motivation. Students taking this course will have the opportunity to take and pass the Certified SolidWorks Associate (CSWA) Exam, a four point industry recognized credential qualifying students to enter a variety of design and/or engineering fields. Students will earn the Technology Seal upon successful completion of this course.

Beyond Computer Science Principles – 831 (I), 832 (II), 833 (III) – 1 credit Prerequisite: Computer Science Principles

This course provides students with an opportunity to work on independent projects using the skills learned in CSP and builds confidence for students who want to pursue more advanced concepts in preparation for college or a career in a related Computer Science field. Students will build upon skills learned in CSP and explore new coding languages, advanced IT concepts, and pursue independent study in preparation of their future plans. Students will follow an independent course pathway where they can develop custom projects to their interests. Students will also manage their own learning pathway and establish personal and professional goals for success in Computer Science. All students will be required to produce a public showcase at the end of the year highlighting progress, newly learned concepts, and present individually designed projects completed during this course. Optional independent study for one to three (1-3) points of industry-recognized credentials available in multiple *Certipoint IT Certifications* and/or *Microsoft Word, Excel,* AND/OR *Powerpoint*. Students will earn the Technology Seal upon successful completion of this course.

Advanced SolidWorks 3D Design– 834 – 1 credit Prerequisite: CSWA Certification

This course offers advanced training and experience using SolidWorks 3D design. Students will pursue an independent learning pathway where they will master a variety of industry-level skills using SolidWorks software. Students in this course will also model leadership skills serving as

mentors for beginner-level students taking the Introduction to SolidWorks 3D Design course and will also gain industry experience serving as teacher assistants designing, leading, and delivering SolidWorks instruction to the beginner-level students. All students will be required to produce a public showcase at the end of the year highlighting progress, newly learned concepts, and present individually designed projects completed during this course. In addition, students will have the opportunity to take and pass the *Certified SolidWorks Professional (CSWP) Exam*, a six (6) point industry-recognized credential qualifying students to enter a variety of advanced design and/or engineering fields. Students will earn the Technology Seal upon successful completion of this course.

ENGLISH DEPARTMENT

Four credits of English are required for CHS graduation. The State End of Year Exams for English which students are required to take for graduation focuses on content materials taught in English II.

College Prep Recommended Courses: English I, II, III, Writing and Composition, English IV, Creative Expressions
Community College Recommended Courses: English I, II, III, Writing & Composition, English IV, Creative Expressions
Vocational Careers Recommended Courses: English I and II credits needed from CHS before attending GCCC

English I – 103 – 1 credit
Freshman English includes literary genres such as short stories, drama, poetry, and novels; vocabulary; and composition and grammar. Emphasis will be on critical reading and writing skills to move students into the high school level of English and language arts.

English II – 104 – 1 credit Prerequisite: English I
Sophomore English continues the concepts introduced in freshman English. This course will include reading selections from multiple genres, integrate vocabulary and composition throughout each unit and emphasize practice of critical reading skills.

English III – 105 – 1 credit Prerequisite: English II
Junior English includes literature, vocabulary, composition, and grammar. The emphasis is on American literature and the works of major American writers.

Advanced English III (ENG 1111) – 105A – 1 credit Prerequisite: English II
***CCP option with Clark State Community College*
This course begins with traditional Junior English subjects (punctuation, writing, speaking, literature) and progresses to the college composition class. The composition focus will be on research writing, analysis, and argument. Students will receive a solid foundation in written and oral communication skills. This course is highly recommended for college-bound students.

Creative Expressions – 107 – 1 credit
Creative Expressions, as described by 2021 students, is a unique life skills class where a student will learn what a person should know about the world. The class "polishes'' you with lots of topics such as non-verbal communication, self-discovery, etiquette, career skills, vocabulary, art history, writing, and literature. You also learn a lot about yourself and your classmates.

Writing and Composition – 108 – 1 credit
Writing and Composition is an advanced writing and grammar class; its general objectives are: 1) to assist students in learning to write college required compositions; 2) to aid the students'

understanding of rhetorical skills; 3) to reinforce grammar skills. More specifically, the course is designed to give students basic skills in main areas of writing, such as: thesis statements, paragraphs, personal narrative, persuasion and argument, research, theme, and analysis.

Speech – 112 – ½ credit
This semester, college preparatory class is a must for every student. Students learn to give speeches confidently and with poise. Units include, but are not limited to, the speech communication process, listening, and persuasion.

Debate Class – 115 – ½ credit
This course provides instruction and practice in the art of debate. Debate will help with public speaking, critical thinking, organization and research skills, and quick response skills. Students will focus on learning the Lincoln-Douglas style of debate, and using this technique to debate resolutions stated on the National Forensic League's website. Students will be taught case writing, rebuttals, cross-examination skills, analytical thinking, and critical thinking.

Advanced English IV (ENG 1600 & 1112) – 119 – 1 credit
***CCP option with Clark State Community College, 3 credit each course*
This course begins as a literature elective (1600) where students will be reading traditional and contemporary selections of novels, short stories, plays and poems. Writing assignments include memoirs, contextual analysis essays, and others. This course progresses to a higher level composition class (1112) where students will be writing an extensive research paper as well as producing other written and oral communication projects. After taking all three of these college classes, students will be thoroughly prepared for college writing.

Film Studies – 120 – ½ credit
In this course students will be critically viewing films and analyzing different elements such as the history, art, and theory of film. Starting with silent movie classics and moving forward to modern blockbuster films. Focusing on the many different techniques of film and how they impacted the culture at the time. This course will challenge students to dig deeper into not just enjoyment, but understanding of how visual masterpieces are created and executed. A strong emphasis on writing will be key in this course as we dissect and explore why movies are such an effective visual, and auditory medium. Prerequisite: English III or higher or concurrent with English III.

Young Adult Literature – 121 – ½ credit
In this course students will be delving deep into a variety of different types of Young Adult literature. Analyzing and reading a wide selection of genres and titles including *, The Hobbit ,The Help, All the Light We Cannot See* and many others. Student choice will be featured in many of the book selections and in the writing we accomplish with each book. If you are interested in reading beyond the scope of normally school-assigned books this class is for you.

Exploring and Writing with AI-122-1 credit
This semester-long class will cover AI basics, ethical principles like fairness and privacy, and the societal impact of AI through hands-on projects, discussions, and writing. It will be taught in a writing and project workshop format through student and, hopefully, guest speaker leadership. Students will learn to leverage AI for tasks in an ethical manner while understanding the implications this new technology has on society.

FINE ARTS DEPARTMENT

One credit of a fine arts or practical arts class is required for CHS graduation. Any student pursuing a four-year college preparatory program is required to take a fine arts class.

Drawing/Ceramics – 1006 – 1 credit
The focus of Drawing/Ceramics is to introduce elements and principles of design that provide a foundation to advanced art courses. The ceramic section covers the techniques of building by pinch, coil, slab, piecing and wheel throwing. There is an emphasis on techniques and procedures of glass fusing, primarily slump, full fuse and tack fuse. There will be one large glass construction project that will be at instructor's discretion in stained glass or mosaic form.

Art I – 1011 – 1 credit Grades 8-12
The focus of the Art I program is an introduction to basic art techniques and medias which are the foundation of the advanced art courses. Included in the program are: drawing, painting, ceramics, 3-D construction, sculpture, multimedia, fibers, printmaking, digital design/computer graphics, art history and criticism.

Art II – 1012 – 1 credit – Prerequisite: Art I
The focus of Art II is a continuation of the techniques and media covered in Art I, plus additional methods and materials. Students will continue to expand their art knowledge, terminology and skill level. Included in this more advanced program are ceramics, art history, watercolors, printmaking, 3-D construction, multimedia, acrylic painting, and fibers.

Art III – 1013 – 1 credit – Prerequisite: Art II
The focus of Art III is an intensified approach to the techniques and media covered in Art II. The student is encouraged to explore and experiment to develop his own personal style. Included in this third year program are acrylic painting, scratchboard drawing, sculpture, art history, printmaking, art composition and the study of career opportunities, along with the various media discussed in Art I & II.

Art IV - 1014 - 1 credit – Prerequisite: Art III
The focus of Art IV is a continuation of the techniques and medias covered in the Art III course and the development of the student's own personal artistic style. The student shall be able to describe and define the direction he/she would like to take. The work in this class is more independent with a strong focus on creating a portfolio.

Advanced Ceramics – 1020 – 1 credit – Prerequisite: Drawing & Ceramics
Advanced Ceramics is designed to build on ceramic and glass techniques learned in Drawing/Ceramics. Included in the program is realism, abstract thinking, clay building methods, and glass techniques. This course will also focus on terminology, history and a variety of artists. This class runs in conjunction with Drawing/Ceramics.

Marching/Concert Band – 1103 – 1 credit – Grades 8-12 (fee)
The Cedarville High School Band meets five days per week for two semesters. The band is predominantly a marching band during the summer months until November. During the marching season only, students will have an extended school day on Tuesdays and Thursdays

until 4:30 for additional rehearsal. Performances include, but are not limited to football games, parades, festivals, competitions, and tours. Concert Band meets for the remainder of the year. Concert Band holds several concerts throughout the year and may participate in festivals, contests, or other performances. Students may be required to purchase performance attire.

High School Choir – 1108 – 1 credit Grades 8-12 (fee)
The Cedarville High School Choir meets five days per week for two semesters. Students will study proper vocal technique and perform choral works in a large vocal ensemble setting. The course will include sacred and secular music. Some musical selections will include movement/choreography. Performances include, but are not limited to concerts, festivals, contests, and tours. Students may be required to purchase performance attire.

Jazz Band – 1113 – ½ credit – Grades 9-12 (fee) *Enrollment by audition
The prerequisite is that the student must be currently enrolled in Marching/Concert Band and play saxophone, trumpet, trombone bass clef baritone, drum set, or general percussion instruments. Also included are piano, guitar, bass guitar, and a vocalist. Jazz Band meets four times each week during intervention period. Jazz Band students will study music techniques characteristic to the jazz idiom. Students will learn to perform jazz music in solo and group settings. Performances include, but are not limited to, concerts, festivals, contests, and tours. Students may be required to purchase performance attire. In extraordinary circumstances, 8th graders may be permitted to audition as needed.

Choralation – 1114 – ½ credit Grades 8-12 (fee) *Enrollment by audition
Choralation meets five days per week during required study hall. Students will study advanced choral technique and apply it in small and large group settings. The course will include sacred and secular music. Choralation is an extension of High School Choir that offers extra and diverse performance opportunities. ***Students must be participating in High School Choir and/or High School Band to audition for this select choir.*** Students will only be admitted to Choralation without taking High School Choir or Band if irresolvable circumstances as established by the counselor and or principal prevent the student from enrolling in High School Choir or Band. Performances may include, but are not limited to concerts, festivals, contests, and tours. Students may be required to purchase performance attire.

FOREIGN LANGUAGE DEPARTMENT

Any student pursuing a four-year college preparatory program is strongly encouraged to take three years of a foreign language.

Spanish I – 504 – 1 credit – Grades 9-12
This introductory course focuses on the acquisition of basic vocabulary and grammar around the following themes: introductions, activities, school, family, food, health, shopping, and holiday celebrations. Students develop listening, reading and writing skills. Additionally, they develop the ability to have basic conversations in Spanish. The course examines social conventions, music, and Hispanic culture.

Spanish II – 505 – 1 credit – Prerequisite: Spanish I
This course expands on basic grammatical knowledge through the acquisition of the past tense, the imperative, and other novice II concepts. Students further develop listening, speaking,

reading, and writing skills through units such as giving and following directions, medical issues, the job market, and bargaining. An emphasis is placed on situational role play of culturally appropriate contexts. The course also explores culture through the reading of texts in monthly culture and language magazines and the reading of one brief level II novel during the year. Students continue to develop an appreciation of cultural diversity and expand their awareness of their own language and culture through cultural comparisons.

Spanish III (SPN 1112) – 506 – 1 credit – Prerequisite: Spanish II

***CCP option with Clark State Community College*

In this intermediate course, the students continue to develop listening, speaking, reading, and writing abilities. The students develop skills to initiate and sustain conversations, negotiate meaning in conversations, and read short literary texts. A unit is devoted to practical Spanish: Spanish used in common situations such as emergencies, hotels, airports, taxis, and restaurants. Readings include an abridged version of the classic novel *Don Quijote* as well as a short novel. Level 3 students participate in a proficiency opportunity for high school foreign language students coordinated by Ohio State to improve their proficiency and prepare them for college entrance exams. During select years, students may have the opportunity to travel to a Spanish-speaking country at the end of the course.

Spanish IV (SPN 2111) – 511 – 1 credit – Prerequisite: Spanish III

***CCP option with Clark State Community College*

This intermediate-advanced course entails a comprehensive grammar review of concepts studied in levels I-III. The students continue to develop listening, speaking, reading, and writing skills through an increased focus on conversation (interpersonal skills), writing (presentational skills), and reading and listening to authentic texts (interpretive skills). The students explore language, culture, and history through art, film, and literary texts. (Course is contingent upon master schedule availability and students will have the opportunity to earn the Biliteracy Seal)

HEALTH & PHYSICAL EDUCATION

One-half credit of physical education and ½ credit of health are required for graduation. Students in the vocational careers program must have earned the HS PE and health credit before attending GCCC.

Physical Education – 604 – ¼ credit per semester

Physical Education may include calisthenics, badminton, basketball, floor hockey, golf, archery, tennis, softball, volleyball, Wiffle ball, shuffleboard, physical fitness, ping pong, weight lifting. Concern will be placed on rules, regulations, history, skill advancement, participation and fitness development.

Health – 605 – ½ credit

This course will encompass the following areas: anatomy and physiology of the digestive, excretory, endocrine, nervous, reproductive systems, nutrition, mental disorders, stress management, First Aid and CPR. IVDL topics are possibly Open Heart Surgery, Total Knee Replacement, Forensics and Autopsy.

Advanced Physical Education, Sport and Conditioning – 608 – 1 credit – Prerequisite: PE 604

This class is designed for those students who have a genuine interest in developing more advanced athletic skills and fitness levels. Students will physically participate in such activities

as weight lifting, fitness testing, lacrosse, handball, canoeing/kayaking, skiing, high ropes course, rock climbing and team building activities. There will be written assignments in this course. The fitness and weightlifting/conditioning components of this class will meet three times a week. This class does not count toward the PE graduation requirement.

Weight Training – 609 – 1 credit
This class will provide knowledge and skills in various types of weight training and conditioning activities. The purpose of the class is to promote better fitness through weight training activity and exercise. Students will earn 1/2 credit for each semester they are enrolled in the class but can earn no more than 1 full credit. Students may enroll in the class for more than 2 semesters, however, no additional credit will be earned. Juniors and seniors will be given preferred enrollment provided they have not already earned 1 full credit in the course. This class does not count toward the PE graduation requirement.

Students who have participated in interscholastic athletics, marching band, or cheerleading for at least two (2) full seasons, as defined in the High School handbook, while enrolled in grades nine (9) through twelve (12) and as documented by the Principal, may be excused from the high school physical education requirement. Students electing such an excuse shall complete one-half (1/2) unit of at least sixty (60) hours of instruction in another course of study which is designated by the Board as meeting the high school curriculum requirements.

Additionally, the student must inform the guidance counselor in writing that he/she wishes to participate in this program during the first week of the school year in which he/she chooses this opt-out option. The student must also complete ½ credit in another course of study of his/her choosing to replace this ½ excused credit in order to meet the state's graduation requirements.

MATH DEPARTMENT

Four credits of math are required for CHS graduation, including Algebra II. The State End of Year Exams for Math which students are required to take for graduation focuses on content materials taught in Algebra I and Geometry.
CP Recommendation: Algebra I, Geometry, Algebraic Math, Algebra II, Advanced Math, Calculus
CC Recommendation: Algebra I, Geometry, Algebraic Math, Algebra II or Advanced Quantitative Reasoning
VC Recommendation: Two math credits needed for GCCC. Algebra I, Geometry, Algebraic Math, or Advanced Quantitative Reasoning

Algebra I – 206 – 1 credit – Prerequisite: Pre-Algebra
Students in Algebra I will simplify and factor variable expressions and apply these skills to equations and work problems. An introduction to analytic geometry through linear equations as well as parabolic equations and exponential equations are included in the course content.

Geometry – 208 – 1 credit – Prerequisite: Algebra I
The student in Geometry will study basic figures of Geometry, congruent and similar polygons, circles, proofs of geometric concepts, constructions, and coordinate Geometry.

Algebra II – 207 – 1 credit – Prerequisite: Algebra I, Geometry
Students in Algebra II will review topics from Algebra I in more depth. Students will learn to simplify radical expressions, expressions with rational exponents, logarithms and exponential functions. Lines, circles and parabolas will be explored using analytic geometry. Students will

also be introduced to using trigonometry to solve triangles and trigonometric identities.

Pre-Calculus (MTH 1340) – 209 – 1 credit – Prerequisite: Geometry and Algebra II
***CCP option with Clark State Community College*
The student in Advanced Math will explore concepts in the areas of ordered fields, mathematical induction, vector analysis, analytic geometry and trigonometry to solve a variety of equations and problems relating to these disciplines.

Calculus (MTH 2200) – 213 – 1 credit – Prerequisite: Pre-Calculus
***CCP option with Clark State Community College*
Advanced Placement Calculus is a college level class. The student in Calculus will use the limit of a function to get the derivative of a function. Various methods of differentiation will be explored and used to solve various problems including slope, rate of change, and sketching curves. The student will use summation to find the definition of the integral of a function. Various methods of integration will be explored and applied to find the area under curves and volumes of solids formed by rotation of a function. Students have the option of taking the Advanced Placement Exam in Calculus for college credit.

Algebraic Applications and Problem-solving/Algebraic Math – 219 – 1 credit Prerequisite: Algebra I, Geometry
This class is for those students who have taken Algebra I and Geometry but have not acquired the math skills necessary to feel or be successful in the Algebra II class. This class will review the materials in Algebra I and Geometry as well as introduce students to basic Algebra II skills.

Advanced Quantitative Reasoning – 221 – 1 credit – Prerequisite: Geometry, Algebra II or Senior-This is an Algebra II or equivalent course
This class is designed for the student who desires to pursue an associates' degree or career path program after high school or who just wants to review math skills in preparation for a college math class. This course will not only review and further explore basic intermediate algebraic and geometric skills/concepts that students have encountered in Algebra I and Geometry but also delve into practical use of math in daily life through the use of critical thinking problems.

Math I – 212 & Math II – 218 – 1 credit - Special Permission
Math I & II are non-college preparatory, practical math classes intended for students who plan to seek vocational training or need additional preparation. Students must have attempted Algebra I in High School and/or demonstrate that additional preparation is needed before taking High School Geometry.

Small Business Math – 220 – 1 Credit – Prerequisite: Algebra I and Geometry
Small Business Math is a hands-on, project-based course designed to explore the mathematical concepts essential to starting, running, and sustaining a small business. Students will learn fundamental financial principles, including budgeting, pricing, profit/loss analysis, taxes, payroll, and accounting. They will apply these skills by either collaborating with local small businesses or via Tribal Trends, a student-led business.

SCIENCE DEPARTMENT

Three credits of science are required for CHS graduation, including Physical Science and Biology. The State End of Year Exam for Science which students are required to take for

graduation focuses on content materials taught in Biology. Students must earn a minimum of 6 points in Science and Social Studies EOY Exams (3 exams combined) and earn a total of 18 points to graduate.

CP Recommendation: Physical Science, Biology I, Chemistry, Physics, AP Biology, AP Chem
CC Recommendation: Physical Science, Biology I, Animal and Plant Science
VC Recommendation: Physical Science and Biology I credits are needed before attending GCCC

Physical Science – 309 – 1 credit – Physical Science

Physical Science is a course designed to give students an overview of chemistry and physics. Some earth science topics will also be included. Calculators and safety goggles are required for some labs and classroom work.

Biology I – 304 – 1 credit

The General Biology course for the state of Ohio is designed to introduce students to the foundational principles of biology, emphasizing the interconnectedness of life, the scientific method, and critical thinking. Through hands-on investigations, students will explore key concepts in cellular biology, genetics, ecology, and evolution. The course integrates laboratory work with classroom discussions to foster a deeper understanding of living organisms, their environments, and the systems that sustain life. Biology I may be taken at the same time as Physical Science if the student had an "A" for a final grade in Science 8 and school approval.

Chemistry – 306 – 1 credit – Prerequisites: Physical Science and Algebra I

Students will study the structure and properties of matter. Laboratory technique and experiments will be emphasized. Safety goggles are required. Students will also need a scientific calculator.

Physics – 307 – 1 credit – Prerequisites: Physical Science and enrolled in/completed Algebra II

In physics, students will study the nature of matter, energy, and their relationships. A scientific calculator is needed. Safety goggles are required for some labs.

AP Biology – 310 – 1 credit – Prerequisites: Physical Science and Biology I (AP can be taken concurrently with Biology I with teacher and administrative approval)

AP Biology is the equivalent of an introductory college biology course. An emphasis on scientific thinking, reasoning, inquiry as well as statistical analysis of data will be used to study the following: how the process of evolution drives the diversity and unity of life, how biological systems utilize free energy and molecular building blocks to grow, how systems store, retrieve, transmit, and respond to information essential to life processes and how biological systems interact. *(Course is offered every other year, odd years)*

AP Chemistry – 312 – 1 credit – Prerequisites: Physical Science and Chemistry or College Ready Score (AP can be taken concurrently with Chemistry with teacher and administrative approval)

AP Chemistry is the equivalent to a general chemistry college course. Students who take the AP Chemistry course will develop a deep understanding of the concepts within the big ideas through the application of the science practices in the required laboratory component of the course. The topics covered in this class deal with structure of matter, bonding and intermolecular forces, chemical reaction, kinetics, thermodynamics and chemical equilibrium. The science practices that will be developed and further extended beyond the regular high school chemistry classroom are drawing, explaining and interpreting representations; using

mathematical and logical routines; refining scientific questioning; designing and implementation of data collection strategies; analyzing and evaluating data; making predictions and justifying claims with evidence and connecting chemistry concepts across the curriculum. The course devotes 25 percent of instructional time to students performing hands-on lab investigations with six of those labs being inquiry-based. *(Course is offered every other year, even years)*

Advanced STEM Physics (PHY 1501) – 313 – 1 credit

***CCP option with Clark State Community College*

Advance STEM Physics (Engineering Course) Engineering Based Physics Course interweaves classical and modern physics, mathematics with their engineering applications. Students will engage in a diverse application of engineering, math, and science based curriculum to meet research goals. The solid base in physics and mathematics is augmented with a selection of engineering concepts that will prepare students to tackle complex problems faced by society.

Core content: Algebra based physics to include: kinematics in one and two dimensions; vector arithmetic; force and Newton's Laws of Motion and Gravitation; work, energy, and conservation of energy; linear momentum and collisions; rotational kinematics and dynamics, including angular momentum and rotational energy; simple harmonic motion; waves and sound; fluids and elasticity; heat and thermodynamics; kinetic theory of gasses; collection, analysis and reporting of data; problem-solving using algebra concepts and methods to complete engineering based projects.

This course will be CCP (Clark State Community College) Physics and Math Department. The course will meet the standards for PHY 1501 - General Physics I with Algebra.

Topics/Projects (in no particular order) are to develop an understanding of the following: kinematics in one and two dimensional; vector arithmetic; force and Newton's laws of motion and universal gravitation; work, energy, and conservation of energy; of linear momentum and collisions; rotational kinematics and dynamics; harmonic and wave motion; elasticity, and fluid properties; heat and thermodynamics; Kinetic Theory of Gases; and demonstrate the ability to conduct research in the physical sciences by designing experiments, collecting data, analyzing/interpreting data and presenting results in the context of current knowledge on the subject Year long Project: Robot development.

This course would be an excellent addition to our already rigorous courses because it is reflective of the work being done in the 21st century. More importantly, this course is an excellent fit for our student population and community because it helps prepare our students for college course work while extending opportunities to work with organizations. Furthermore, this course will give our students to apply their skills and knowledge to develop meaningful projects that will enhance their resumes and portfolios. As our students transition into the competitive global economy, this course gives our students an edge by exposing them to practical and high caliber work.

Currently, we do an excellent job with college readiness; however, this course will help our district fill that missing component of being career ready. This course not only requires our students to independently engage with core concepts, it provides an authentic opportunity to collaborate and develop tangible products that are the result of numerous minds. Right now we lack the continuous hands-on courses that apply both theory and trade. Our students are continually looking for new ways to engage content and see how they can adapt their skills for

real world purposes. This course helps our students and community fill that need to adapt their skills.

Anatomy & Physiology – 314 – 1 credit
An intensive college-level study of the structure and function of the human body. This course is preparation for advanced biological studies, nursing, and other health or science-based careers. Laboratory experiences and text-based activities provide student learning in the following topics: the major body systems; how the body systems work together to provide homeostasis; body functions in the healthy and diseased states. This course fulfills the graduation requirements for one elective unit of advanced life science for the honors diploma or the standard diploma. *(Course is offered every other year, odd years)*

SOCIAL STUDIES DEPARTMENT

Three credits of social studies are required for CHS graduation, including American History and Government. The State End of Year Exam for social studies which students are required to pass for graduation focuses on content materials taught in American History and Government.
CP Recommendation: World History, American History, Advanced Gov and Advanced European History
CC Recommendation: World History, American History, and Government
VC Recommendation: World History, and American History credits needed for GCCC

American Government – 403 – 1 credit
American Government is a course designed to acquaint the student with the development and function of our local, state, national and comparative governments. A thorough examination is given to the legislative branch, the executive branch and judiciary branch.

American History – 405 – 1 credit
The course covers events and general knowledge of American History from the Post-Reconstruction Era to the Modern Era. There is a strong emphasis placed on the time period following Reconstruction to the events of today. Specific periods looked at will be: the settlement of the Plains area, Spanish American War, Progressive Era, World War I, 1920's, Great Depression, World War II, Korean Conflict, Vietnam, Watergate and recent history. The course also covers the changing American society as well as historical facts.

World History – 406 – 1 credit This history/integrated language arts course covers four historical themes: Imperialism, Revolution, Conflict, and Globalization (1750-present) using project-based learning. The students will use school-provided technology to meet the state academic content standards. The course will also include a study of the genres of the novel, poetry, short stories, and nonfiction writing as well as an emphasis on writing, speaking, analyzing and listening. Major emphasis will be placed on meeting grade level indicators in the State Academic Content Standards.

Current Issues I – 408 & Current Issues II – 409 – 1/2 credit
Students will be required to be involved in group discussion, speeches, research projects, debates, etc.; as the major issues of the day are brought to light. These classes are designed to create a lasting interest in events occurring in the world on a daily basis. Students will be required to read current periodicals, magazines and newspapers. These courses are designed for upperclassmen. *(Course is contingent upon master schedule availability)*

Western Civilization Since 1600 (HST 1120) – 411 – 1 credit

***CCP option with Clark State Community College*

Western Civilization will be a college-level course designed to develop an understanding of some of the principal themes in modern European History (1600-present); an ability to analyze historical evidence; and an ability to express that understanding and analysis in writing. The course will look at the history of Europe within the following three areas: Intellectual and Cultural, Political and Diplomatic, and Social and Economic.

Intro to American Politics (PLS 1100) – 413 – 1 credit

***CCP option with Clark State Community College*

Political Science is a college-level class that covers U.S. Government and Politics, and will give students an analytical perspective on government and politics in the United States. The course involves both the study of general concepts used in interpreting U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute political reality. The main ideas covered are: Constitutional Underpinnings of the U.S. Government, Political Beliefs and Behaviors, Political Parties and Interest Groups and Liberties.