Chardon High School

Program of Studies

www.chardonhs.org

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2021-2022

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The selection of a high school program is a very important task and one in which you, your parents, and your school counselors should give careful thought. Minimum and maximum class sizes have been established for each course. If a course fails to have the minimum number of students enrolled, it may be canceled.

It is essential that you decide which courses best fit your needs and register for them. Each year students are disappointed because a class they requested closes or cancels. Although all classes in this book may be initially offered, final decisions on class offerings will be determined by enrollment. Please note that some classes are offered on a rotating basis; see specific course descriptions for information.

For 2021-2022, Chardon Local Schools will again be partnering with Lakeland Community College for College Credit Plus (CCP) courses available on our campus. CCP offers qualified students the opportunity to enroll in college courses and earn college credit; which can also be used to fulfill high school graduation requirements. For more information regarding CCP, please meet with a school counselor.

Students are encouraged to plan carefully a program of study that will assist them in reaching their educational goals. The college preparatory program, accelerated, advanced placement programs and the career/technical educational programs outlined on the following pages are designed to guide students in selecting the subjects that will lead them toward achieving their goals.

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Minimum Graduation Requirements

(See Board Policy)

The requirements for graduation from Chardon High School includes earning twenty (20) units of credit as established in State law and this Board of Education and fulfilling the requirements of one (1) graduation pathway that has been approved by the State of Ohio.

To graduate, students must earn twenty (20) units of High school credit as follows:

Subject	Units Required
English Language Arts	**four (4)**
Health	**one half (0.5)**
Physical Education	**one half (0.5)**
Mathematics	**four (4)**

Must include one (1) unit of Algebra II or equivalent of algebra II or one (1) unit of advanced computer science. Parents must sign a written statement acknowledging that not taking algebra II might negatively impact college admissions decisions before a student may substitute advanced computer science for algebra II. Students who are enrolled in a career technical program may complete a career-based pathway math course as an alternative to algebra II or advanced computer science.)

Science **three (3)**

Must include 1 unit physical sciences, one (1) unit of life sciences, and one (1) unit advanced study in one (1) or more of: chemistry, physics, other physical science, advanced biology or other life science, physical geology or other earth or space science, computer science.

Social Studies **three (3)**

Must include at least one-half (1/2) unit in world history and civilizations. History and Government (must include one-half (1/2) unit of American history, one-half (1/2) unit of American government).

Electives **five (5)**

Must include one (1) or any combination of a foreign language, computer coding, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education, a junior reserve officer training corps (JROTC) program approved by the U.S. Congress, or English Language Arts, Mathematics, Science, or Social Studies courses not otherwise required.

All students must receive instruction in economics and financial literacy during Grades 9 - 12. Additionally, all students must receive instruction in cardiopulmonary resuscitation and the use of an automated external defibrillator from an approved source during Grades 9 - 12, unless the student is exempted from such training due to a disability or by written request of the parent.

Overview of Graduation Requirements by Graduating Class

To provide a comprehensive overview of Ohio's graduation requirements in response to recent updates, the chart below outlines the options available to each cohort, as well as a description of the requirements.

In addition to satisfying the required coursework, students in the classes of 2017 through 2023 and beyond will satisfy the following:

Class of 2021 and 2022	Class of 2023
Students who entered grade nine between July 1, 2017 and June 30, 2019	**Students entered grade nine between July 1, 2019 and after**
Three Pathways **OR** **Permanent Requirements**	**Permanent Requirements**

Three Pathways

Students must complete one of the following three pathways:

1. Earn 18 graduation points on Ohio's State Tests;
2. Earn a remediation-free score on the ACT or SAT;
3. Score work ready on the WorkKeys and earn a 12-point, approved industry-recognized credential (or group of credentials).

Permanent Graduation Requirements

State law created new, permanent requirements that will be available starting with the class of 2018.* Students in the classes of 2021 and 2022 who have met or are on track to meet one of the original three pathways (listed above) may continue to use those pathways to satisfy graduation requirements. Students in the classes of 2023 and beyond will be required to meet the permanent requirements in order to graduate. The permanent requirements are listed below:

1. **Demonstrate Competency:** Students must demonstrate competency in math and English by passing the state's Algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:

    - Earn credit for one math and/or one English course through College Credit Plus;
    - Demonstrate career readiness and technical skill through foundational and supporting options;
    - Enter into a contract to enlist in the military upon graduation.

2. **Preparation for College or Careers:** Students must earn two diploma seals, one of which must be state defined, to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions.

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

Chardon High School's Graduation Seal Outline

**** Please refer to the Chardon High Schools Seals Outline link above for further information about each graduation seal listed below ****

OhioMeansJobs Readiness Seal (Ohio) - Meet the requirements and criteria established for the readiness seal, including demonstrating work-readiness and professional skills.

Industry-Recognized Credential Seal (Ohio)- Earn an approved industry-recognized credential that is aligned to a job considered in demand in Ohio and regionally (More information is forthcoming).

College-Ready Seal (Ohio) - Earn a Remediation-free score on the ACT or SAT.

Military Enlistment Seal (Ohio)- Provide evidence that a student has enlisted in a branch of the U.S. Armed Forces; or Participate in an approved JROTC program (More information is forthcoming).

Citizen Ship Seal (Ohio) - Achieve one of the three following requirements: 1. Earn a score of proficient or higher on both the American History and American Government end-of-course exams; 2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement exams; 3. Earn a final course grade that is equivalent to a “B” or higher in appropriate classes taken through the College Credit Plus program.

Science Seal (Ohio) - Achieve one of the three following requirements: 1. Earn a score of proficient or higher on the Biology end-of-course exam; 2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement exams; 3. Earn a final course grade that is equivalent to a “B” or higher in appropriate classes taken through the College Credit Plus program.

Honors Diploma Seal (Ohio) - Earn one of six Honors Diplomas: 1. Academic Honor Diploma 2. International Baccalaureate Honors Diploma 3.Career-Tech Honors Diploma 4. STEM Honors Diploma 5. Arts Honors DiplomaIncludes dance, drama/theatre, music and visual art. 6. Social Science and Civic Engagement Honors Diploma.

Seal of Biliteracy (Ohio) - Meet all of the requirements and criteria, including proficiency requirements on assessments in World Language and English.

Technology Seal (Ohio) - Achieve one of the three following requirements: 1.Earn a score that is at least equivalent to proficient on an appropriate Advanced Placement exam; 2. Earn a final course grade that is equivalent to a "B" or higher in appropriate classes taken through the College Credit Plus program; 3. Complete a course offered through the district or school that meets guidelines developed by the Department. (A district or school is not required to offer a course that meets those guidelines).

Community Service Seal (Local) - Complete a community service program aligned with the guidelines approved by the Chardon Board of Education.

Fine and Performing Arts Seal (Local) - Demonstrate skills in the fine or performing arts that align with the guidelines approved by the Chardon Board of Education.

Student Engagement Seal (Local) - Participate in extracurricular activities and meet the required guidelines that align with the guidelines approved by the Chardon Board of Education

Areas of Study for College Preparation

Experience has shown that in order to successfully prepare for college level work, high school students should undertake a well-balanced program with some courses in each of the academic fields. These are recommendations and are not requirements for all colleges.

The Ohio Board of Regents has stated the following program to be the RECOMMENDED College preparatory program for students attending Ohio's thirteen State Universities. This is the same program as Chardon High School and other universities have been recommending for a number of years. The recommendations include the following:

English: 4 or more units	Science: 3 or more units
Math: 4 or more units	Social Studies: 3 or more units
World Language: 2 units	Fine Arts: 1 Unit

These are recommendations and not the exclusive requirement for admission to colleges and universities. Criteria for acceptance vary from school to school and in many cases exceed core requirements.

Honors Diploma Requirements

College Prep Honors Diploma - Must meet at least 7 of 8 criteria:

1. English	4 Units
2. Mathematics	4 Units (Algebra I, Geometry, Algebra II and a higher level course)
3. Science	4 Units (including 2 units of Advanced Science)

4. Social Studies 4 Units
5. World Language 3 Units (or 2 units each of two different World languages)
6. Fine Arts 1 Unit
7. GPA 3.50+ cumulative GPA (4.0 scale)
8. ACT/SAT ACT: 27+ SAT: 1280+

Vocational Education Honors Diploma - Must meet 7 of 8 criteria:

1. English 4 units
2. Mathematics 4 units (Algebra 1, Algebra II, Geometry and a higher level course)
3. Science 4 units (including 2 units of advanced science)
4. Social Studies 4 units
5. Voc./Tech 4 units in a career-technical education program that leads to an industry-recognized credential, results in an apprenticeship or is part of an articulated career pathway, which can lead to postsecondary credit. If the student's program design does not provide for any of these outcomes, then the student must achieve the proficiency benchmark established for the applicable Ohio career-technical competency assessment or the equivalent;
6. Achieve the proficiency benchmark established for the Ohio Career-Technical Competency Assessment (available at http://www.webxam.org/info_docs.asp or equivalent assessment aligned with state-approved and industry-validated technical standards
7. GPA 3.50+ cumulative GPA (4.0 scale)
8. ACT/SAT ACT: 27+ SAT: 1280+

STEM Honors Diploma - Must meet at least 7 of 8 criteria:

1. Math 5 Units
2. Science 5 Units (including 2 units of advanced science)
3. Social Studies 3 Units
4. World Language 3 Units (or 2 units each of two different world languages)
6. Fine Arts 1 Unit
7. Electives 2 Units with a focus in STEM
8. GPA 3.50+ cumulative GPA (4.0 scale)
9. ACT/SAT ACT: 27+ SAT: 1280+
10. Field Experience Complete a field experience and document the experience in a portfolio specific to the student's area of focus
11. Portfolio: Develop a comprehensive portfolio of work based on the student's field experience or a topic related to one's focus.

Scheduling Policies

Academic Course Load
Each student must be enrolled in a minimum of five credits per year. Students are expected to be enrolled in a minimum of six courses.

Course Sequence
Students will be expected to take subjects in sequence and fulfill any prerequisites as indicated by this program of studies booklet. Students may only take courses offered in their grade level.

Drop/Add Policy
From time to time there may be circumstances in which it is recommended a student drop a course. If a student drops a semester course after six weeks or a year long course after ten weeks the student will receive an F for the semester or year long course. The grade of F will be recorded on the transcript as the final grade for the course. If a student makes a level change (e.g., from honors to regular), the in progress grade will transfer to the new class for that grading period.

Programs

Summer School:
Students may wish to consider the possibility of supplementing their program or completing makeup work with a summer course. These are typically available online.

Advanced Placement (AP):
AP courses allow high achieving, highly motivated high school students to undertake college-level academic learning. AP exams (administered in May) give students the opportunity to receive college credit, advanced placement or both from hundreds of colleges and universities that participate in the AP program. AP courses make substantial academic demands on students. Students are required to do considerable outside reading and other assignments to demonstrate the analytical skills and writing abilities expected of college freshmen.

Auburn Career Center:
The offerings at Auburn Career Center and its satellite buildings provide juniors and seniors a variety of career choices. While students are obtaining a marketable skill, they are able to take three (3) academic classes at the home school. Applications for Auburn Career Center are available in the guidance office. Programs available include the following:

Advanced Manufacturing	**Allied Health Technology**
Architecture Project Management	**Automotive Collision Repair**
Automotive Technology	**Computer Networking & Cyber Security**
Construction	**Cosmetology**

Criminal Justice & Security	**Culinary Arts**
Dental Assistant Technology	**Electrical Engineering Prep**
Emergency Medical Services	**Heating Ventilation & Air Conditioning**
Interactive Multimedia Technology	**Marketing & Business Applications**
Patient Care Technician	**Plant, Turf, & Landscape Mngt.**
Pro Web and Game Design	**Production and Welding Technology**
Teaching Professions Pathways	**Technology Engineering & Design**
Welding	

College Credit Plus:
College Credit Plus is a program where qualified high school students enroll either full or part-time in a local college for high school and college credit. Admission requirements vary for each participating college. To be eligible for the program a student must meet the following criteria:

a) be a full time high school student
b) attend/ a required informational meeting to learn the advantages and disadvantages of the program; this parent/student meeting is held in February at Chardon High School
c) a student and parent must sign an "intent to participate" form and turn it into the Guidance Office **no later than April 1st.**
d) be accepted by the college the student wishes to attend.

Educational Options:
Educational Options (EO) are typically used for courses and content areas not taught or available in the Chardon High School Curriculum. Options include: Distance Learning, Online Coursework, Independent Study, Educational Travel, Senior Project, Service Learning, Internship, etc. These programs must be pre-approved by the principal and may require the student to identify a licensed "teacher of record" to monitor the plan and assign the final grade. Credits earned through EO **do not count in the minimum course load requirement** which is 5 credits per year. In addition, EO credits **do not count for the 5 credits needed for extracurricular eligibility**. Educational Options credits may be earned as additional credits beyond the 5 credit minimum.

Credit by Examination (Credit Flexibility):
Credit by Examination (CE) allows students to complete an assessment (exam, a series of tests, performance, project, and/or portfolio, etc.) to earn credit for courses typically offered during the day at Chardon High School. The course assessment and completion timeline will be provided by the Department Head in each academic area. Credits earned through CE do not count in the minimum course load requirement which is 5 credits per year. Also, CE credits do not count for the 5 credits needed for extracurricular eligibility.

Independent Study (Credit Flexibility):
Independent Study (IS) allows students to devise their own course of study for subjects not offered in the Chardon HS curriculum or as an alternative to existing Chardon High School courses. The student must ensure that IS courses meet Ohio Department of Education "Content Standards" for that subject. A faculty member will review the proposed course of study to determine: 1) the credit value of the course; 2) the course title; and 3) whether the credit will be counted as a "graduation requirement" or as an "elective." IS courses **do not** count in the 5 credit per year course load minimum requirement. In addition, DL format courses **may not** be used for the 5 credits needed for extracurricular eligibility.

Credit Recovery:
Credit Recovery (CR) is the process of recovering credits for required courses that a student has completed, but failed. CR courses are designed as a review of the subject, not the re-teaching of the entire course. Students may not enroll in CR if they have not already attempted the original course. CR courses are offered through summer school, online, or correspondence through the mail at any time of year.

Physical Education Waiver
Students may be excused from the physical education course requirement by participating in **District-sponsored** interscholastic athletics, marching band, cheerleading, or show choir for at least two (2) seasons. Club activities and/or club sports are not considered part of the District - sponsored athletics, marching band, cheerleading, or show choir. Students will not be required to complete any physical education course as a condition to graduate. However, in order to be eligible for graduation, a high school student must complete at least one (1) semester of instruction in another course of study.
A student who has not fulfilled his/her Physical Education requirement prior to the start of their 8th semester, will be scheduled into a PE class(es). Participation in Spring activities of a student's Senior Year cannot be used to fulfill the PE Graduation requirement.
A student must choose to meet their physical education requirement EITHER through the waiver OR through physical education classes. (Students may not use a combination of both)

Guidelines for Determining Extra-Curricular Eligibility at CHS

According to the **eligibility policy** for the Chardon Local School District students must meet the following main criteria:

- Meet the OHSAA requirements:
  - enrolled in at least five one credit courses or the equivalent, each of which counts toward graduation.
  - received passing grades in at least five one credit courses or the equivalent, each of which count toward graduation, during the immediately preceding grading period, or as an incoming 9th grader, passing four classes.
- CHS Specific- Earn at least a 2.0 GPA for the quarter prior to participation
- CHS Specific- Earn no F's (failing grades) during the quarter prior to participation
- 7/8th grade specific: middle school athletes must have received passing grades in at least four classes (OHSAA), during the immediately preceding grading period, maintained at least a 2.0 grade-point average (Chardon BOE policy), and must not have

received a failing grade (Chardon BOE policy) in any course for the grading period previous to the one in which s/he wishes to participate.

Board Policy: An exception may be made by the Principal if the student has been participating in an intervention program and has shown satisfactory progress toward achieving the minimum grade-point average.

Full OHSAA and CHS Eligibility Quick Reference Guide

Additional Information

- Only grades issued for the quarter grading periods count toward eligibility. Final exam scores, semester grades, and year-end grades are not considered. (CCP Exclusions may apply)
- Eligibility changes on the 5th school day after the end of a grading period.
- Students who are ineligible may not practice with an athletic team while they are ineligible.
- Families should review the schedules of their sons/daughters prior to each quarter to be sure they meet the eligibility requirements. Keep in mind that dropping a course during the school year may result in ineligibility.
- Students on an I.E.P. are exempt from the G.P.A. criteria, but can not receive any F's.
- Students enrolled in college courses through the CCP program should make an appointment with their High School counselor to determine eligibility.

Please contact the School Counseling Department (285-4060) or Athletic Department (286-0414) if there are any questions regarding eligibility.

There are several other factors that can affect a student's eligibility for athletics. These include age limitations, school transfers, residency rules, participation in non-school teams, etc. Please refer to the eligibility pamphlet given out at the beginning of each athletic season or contact the Athletic Director at 286-0414 for more information.

Course Descriptions
2021-2022

Good planning up front in the scheduling process will help us in our efforts to offer the courses you choose. Be sure to include parents and school counselors in the process. Once the master schedule is finalized, it becomes very difficult to make changes later. For 2021-22, only minor changes were made to the Program of Study given the uncertain times surrounding the pandemic. Families need to pay attention to changes in required testing and graduation requirements from the Ohio Department of Education as they respond to the challenges schools face in balancing in-person and remote learning.

ART Department

Those students wishing to major in art in college should take a serious attitude toward all the course offerings. The development of a portfolio begins at the freshman level in Art Foundations and continues through AP Studio Art. Art courses can also be taken for personal enjoyment and artistic expression.

Art Foundations
Grades 9-12 - 1 credit (full year)
It is required that students take this course before taking any other art courses.
This is an introductory course that offers the basics in design, drawing, painting, pottery and printmaking. It is designed for the student who wishes to develop a basic understanding of the elements and principles of art using a variety of basic media and technical applications. A sampling of historical periods in art will be introduced. **An outside sketchbook is required.**

Digital Art & Design
Grades 9-12 - .50 credit
Prerequisite: Art Foundations or Web Design
In this course, students will explore core concepts associated with digital art and technology. Through learning how to use Adobe Photoshop and Adobe Illustrator, the students will work with concepts such as visual art and graphic design. Projects include branding, physical application (screen printing), photography, digital painting, and more.

Drawing I
Grades 10-12 - .50 credit
Prerequisite: Art Foundations or the permission of an art instructor. Recommended to be taken with Painting or Printmaking.
This is the first part of a course designed for the student who wishes to continue developing individual abilities and visual skills while focusing on drawing and mixed media. Subjects such as imagination, life-study, illustration problems, still-life and media such as watercolors, colored pencil, pen & ink, charcoal, oil pastel & digital are examples of the types of work which may be covered during the semester. Self-expression, creativity and communication of ideas will be emphasized through a variety of projects. New techniques and artists related to subjects or techniques will be studied. **Outside work (sketchbook) is also required.**

Painting I
Grades 10-12 - .50 credit
Prerequisite: Art Foundations or the permission of an art instructor. Recommended to be taken with Drawing.
This is the first part of a course designed for the student who wishes to continue developing individual abilities and visual skills while focusing on painting and mixed media. Subjects such as imagination, life-study, illustration problems, still-life and media such as watercolors, tempera, acrylic, oil, & digital are examples of the types of work which may be covered during the semester. Self-expression, creativity and communication of ideas will be emphasized through a variety of projects. New techniques and artists related to subjects or techniques will be studied. **Outside work (sketchbook) is also required.**

Ceramics I
Grades 10-12- .50 credit
Prerequisite: Art Foundations
This course is designed for the student who wishes to further develop skills in clay and other tactile media to create functional or non-functional pottery, sculpture, and casts. The student will develop a keen sense of creative process through the implementation of research, problem solving, and ideation. Projects will include the methods of other cultures, hand building and wheel throwing techniques, mold processes to create casts, and sculpture crafting. The student should be competent in drawing. **A sketchbook is required.**

Functional Metals and Jewelry
Grades 10-12- .50 credit
Prerequisite: Art Foundations or the permission of an art instructor.
In this course the student will develop individual abilities in three dimensional forms. The course will explore a variety of sculptural media (mainly metal) to create functional or nonfunctional art. The context of each artwork will be based on cultural influences, historical trends or individual expression. Projects may include functional objects (jewelry, flatware, metals) as well as non-objective forms. The student should be competent in drawing.

The Art of Animation
Grades 10-12- .50 credit
Prerequisite: Art Foundations or the permission of an art instructor.
Storytelling is an art that requires the practice of craft-based techniques. In this course focus will be placed on story/character development and design through processes including sequential art forms such as comic creation, storyboarding, illustration, and polymer sculpture using traditional and digital techniques. Learn the vocabulary and processes of narrative structure as it pertains to the elements and principles of design. Graphic novels, cinematic storyboards and their scripts will be studied. **A sketchbook is required.**

AP Studio Art
Grades 11-12- 1 credit (full year)
Prerequisite: The AP Studio Art classes and portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year.
This full-year course is designed for the art student who is seriously considering furthering one's education in art and wishes to develop a portfolio for college scholarship. Those students who wish Advanced Placement credit may do so through this course. Emphasis will be placed on the quality of one's work showing excellence in its execution. Advanced areas to be addressed will include: portfolio preparation for presentation, higher level conceptual development and production in painting, drawing, printmaking, and 2D design. Media integration through exploration will be stressed as well. A weekly outside sketchbook is required.

BUSINESS Department

CCP Introduction to Business
Grades 8-12 - 1.0 credit (semester)
(CCP Course: Qualified students receive college credit from Lakeland)
Please note that ALL STUDENTS MUST meet Lakeland standards to enroll in the course.
This course provides an overview of the U.S. business world, focusing on the historical development of American business from the early years to the present. It includes major business functions: management, marketing, manufacturing, distribution, financial operations, and human resource management. It also focuses on business ethics, in theory and practice, in today's highly competitive business environment.

CCP Business Ethics
Grades 8-12 - 1.0 credit (semester)
(CCP Course: Qualified students receive college credit from Lakeland)
Please note that ALL STUDENTS MUST meet Lakeland standards to enroll in the course.
This course introduces students to the relevance and importance of ethics in business. It examines ethical considerations and dilemmas facing corporations, managers, and employees and develops ethical decision-making skills with a stakeholder focus. Students will become familiar with business ethics, views and theories, corporate social responsibility policies and practices, and the application of sustainability to business decisions.

CCP Business Communication
Grades 8-12 - 1.0 credit (semester)
Prerequisite - Introduction to Business
(CCP Course: Qualified students receive college credit from Lakeland)
Please note that ALL STUDENTS MUST meet Lakeland standards to enroll in the course.
This course provides students with a fundamental understanding of important oral and written skills in the business environment. This course includes practical application of oral and written communication skills in a simulated business setting. Students will develop and enhance their skills in researching, planning, writing, editing, and presenting a diversity of business communication. Additionally, emphasis on the process of writing, tone and style, and business correspondence utilizing a diversity of formats will be a major part of this course. Development and improvement of oral and employment communication, including resumes, job interview techniques, and business presentation style, is a component of this course.

CCP Introduction to Entrepreneurship
Grades 8-12 - 1.0 credit (semester)
Prerequisite - Introduction to Business
(CCP Course: Qualified students receive college credit from Lakeland)
Please note that ALL STUDENTS MUST meet Lakeland standards to enroll in the course.
This course explores entrepreneurial opportunities and investigates the various considerations and skills necessary in establishing a small business. Students will learn about the process for conceiving, launching, and developing a business in a competitive market. Topics pertaining to the small business include competitive strategies, ethics, legal issues, financing options, marketing, and the role of the business plan.

CAREER BASED INTERVENTION (CBI)

CBI: This Program is designed to help students improve academic competency, develop professional skills, and implement a career plan that will serve them on the path to graduation and beyond. The CBI Program utilizes a combination of in-class educational and on-site experiential learning opportunities to maximize student success.

C.R.E.W. - Creating Reliable Educated Workers

CBI Foundation I - C.R.E.W.
Grades 8-9 - (.5 to 2 credits) (Varies)
This course encourages you to think about your future plans. It is designed to assist you to research the paths of employment, enlistment, entrepreneurship or enrollment. You will take a close look at the world of work to identify potential career opportunities that match your aptitudes, personality and interests. Course content includes career research, identifying and developing a solid foundation of employability skills such as: safety, ethics, readiness, customer service, communication, teamwork, and problem solving. Financial realities and techniques for balancing work and personal life will also be included.

CBI Transition I - The 4 E's
Grades 10-12 - (.5 to 2 credits) (Varies)
This course is about making your plans to work after high school a reality. Whether you've set your sights on employment, enlistment, entrepreneurship, or enrollment this course will lead you through the steps to take, plans to make and options to consider in making the transition after high school. Content includes understanding social and emotional skills, postsecondary and career preparation, financial literacy, Information, media and technological literacy, health and wellness literacy, business readiness skills, ethics and legal practices, work safety, communication skills, customer service, economics, entrepreneurial concepts, problem solving and critical thinking.

CBI Work Based Learning I
Grades 8-10 - (.5 to 2 credits) (Varies)
Work-based learning component can be fulfilled through:

- Paid co-operative work-based learning experiences
- Non-paid career exploration opportunities (examples: job shadowing, short-term field experiences, internships, volunteering & community service, and/or service learning)
- A combination of both

ENGLISH Department

Please note that all English courses require summer reading, a schoolwide assigned book for all students in every English class. Honors classes require additional titles, as indicated below.

College Prep courses study the processes of language arts that include: listening, viewing, speaking, dramatizing, reading, and writing but are designed to challenge students. Becoming skillful in these processes is essential to academic, vocational, and personal success.

Honors English courses study the processes of language arts in depth. Created for students who comprehend and use various forms of communication with ease and insight, the course of study expects students to exhibit personal initiative and independence as well as creativity and insight. Students are admitted based on staff recommendations and past performance.

ELA Course Sequencing

Gr.	Course--College Prep	Course--Honors
8	English Language Arts 8 This course will target students' growth in the areas of reading, writing, listening, speaking, and discussion. Summer reading - TBA	English IH This course emphasizes advanced language arts skills, both written and oral, as a foundation for future English courses. Summer Reading: TBA
9	English I - 9CP This course emphasizes language arts skills, both written and oral, as a foundation for future English courses. Summer reading - TBA	English IIH This course further emphasizes advanced language arts skills, both written and oral, to continue the preparation for future English courses. Summer reading: TBA
10	English II (American Literature) 10CP Students will continue studying the process of language arts, focusing on persuasive writing, speaking, and readings from traditional American literature. Summer reading - TBA	English IIIH Students will continue studying the *advanced* processes of language arts, focusing on persuasive writing, speaking, and readings from traditional American literature. Summer Reading: The all-school selection (TBA) Also **suggested**, ONE of the following novels: Maya Angelou, *I Know Why the Caged Bird Sings* Khaled Hosseini, *The Kite Runner* **OR** *A Thousand Splendid Suns* Jeanette Walls, *The Glass Castle* James McBride, *The Color of Water* Sue Monk Kidd, *The Secret Life of Bees* Kurt Vonnegut, *Slaughterhouse-Five*

		Tim O'Brien, *The Things They Carried* Kathryn Stockett, *The Help* Hilary Jordan, *When She Woke* Susan Meissner, *Fall of Marigolds* Emily St. John Mandel, *Station Eleven* Jennifer Niven, *All the Bright Places* Angie Thomas, *The Hate U Give* Cormac McCarthy, *The Road*
11	Students will select one junior-level literature course from the selections listed below. Summer reading - TBA	AP Language and Composition **Prerequisite: English III Honors or teacher recommendation** An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. *It is strongly suggested that students take the AP Exam in May.* Summer Reading: The all-school selection (TBA)
12	Students will select one literature course from the selections listed below. Summer reading - TBA	AP Literature and Composition **Prerequisite: AP English Literature or teacher recommendation** As an AP course, this is a rigorous college-level course and is focused on composition and literary analysis of fiction. In the daily class discussions, students and teachers will address structure, style, diction, imagery, symbolism, metaphor, motif, tone, theme, syntax, and more. Students will learn how these make a work unique and will be reading from an intensive and extensive reading list. Students read drama, fiction, and poetry, and they will read literature from the past and literature of today. In discussions of literature, they will learn the social, cultural, and historical values a work reflects and embodies. Summer reading - TBA and read two of the following: *The Thirteenth Tale* by Diane Setterfield

		The Night Circus by Erin Morgenstern *The Guernsey Literary Potato Peel Society* by Mary Ann Shaffer and Annie Barrows *The Book Thief* by Markus Zusak *Life of Pi* by Yann Martel *The Tiger's Wife* by Tea Obreht *This is How It Always Is* by Laurie Frankel *The Starless Sea* by Erin Morgenstern

Courses for Grades 11-12 (Descriptions follow the chart)

Grade	Year Long Course of Writing and Literature
11	Junior Writing/Gothic Literature: Monster Stories
	Junior Writing/Hero's Journey
	Junior Writing/True Voices
12	Senior Writing/Difficult Choices
	Senior Writing/Dystopic Literature
	Senior Writing/Satire

Writing/Literature Option for Juniors (Year-Long Course) - Choose ONE:

Junior Writing/Gothic Literature: Monster Stories
Grade 11: 1 credit
The first half of this year-long course focuses on preparing students with the writing and analysis skills they will need to succeed in college and beyond. Students' compositions will focus on persuasive writing and will be tailored to a variety of audiences. Through various forums, students will also practice the communication skills of reading, writing, listening, and speaking.
This second half of this year-long course focuses on exploring a wide variety of cultural interpretations of the "monster story" through nonfiction, poems, plays, and novels. Popular themes will include terror versus horror, supernatural influences, and good versus evil. A culminating project will include students' own recreations of the Gothic architectural structures that inspired the settings of these Gothic stories, bringing STEM into the English classroom. Anchor texts may include *Phantom of the Opera, Frankenstein, Dracula, Strange Case of Dr. Jekyll and Mr. Hyde, and "The Mask of the Red Death."*

Junior Writing/Hero's Journey
Grade 11: 1 credit
The first half of this year-long course focuses on preparing students with the writing and analysis skills they will need to succeed in college and beyond. Students' compositions will focus on persuasive writing and will be tailored to a variety of audiences. Through various forums, students will also practice the communication skills of reading, writing, listening, and speaking.
The second half of this year-long course will trace the epic concept of a Hero's Journey, or monomyth, from classic to modern texts. Anchor texts will be paired with poetry short stories, and nonfiction selections for comparison and analysis through discussion and writing. Anchor texts **may** include *I Am the Messenger*, *Hamlet*, *Beowulf,* and *The Alchemist*.

Junior Writing/True Voices
Grade 11: 1 credit
The first half of this year-long course focuses on preparing students with the writing and analysis skills they will need to succeed in college and beyond. Students' compositions will focus on persuasive writing and will be tailored to a variety of audiences. Through various forums, students will also practice the communication skills of reading, writing, listening, and speaking.
In the second half of this year-long course, the teacher will guide students through reading and writing personal stories focusing on the American Dream and Chardon's core values. Research shows that writing is a powerful tool for self-knowledge, healing, and creative expression. Students will study the art and craft of memoir, by reading full-length works, personal essays, short stories, and excerpts by many different authors. Anchor texts may include *Channel of Peace, A Raisin in the Sun, The Last Lecture, The Glass Castle,* and *This I Believe*.

Writing/Literature Option for Seniors (Year-Long Course) - Choose ONE:

Senior Writing/Difficult Choices
Grade 12: 1 credit
Prerequisite: Junior Writing/Literature
This first half of this year-long course focuses on preparing students with the writing and analysis skills they will need to succeed in college and beyond. Students' compositions will be tailored to personal, practical, and academic applications. Through various forums, students will also practice the communication skills of reading, writing, listening, and speaking.
Consider the following for the second half of this year-long course. What problems challenge our society, and how do we solve them-or do we? This class will study a selection of literature, non-fiction, and film to probe issues such as family conflicts, medical ethics, censorship, and American cultural issues such as race, gender, sexuality, and violence. Anchor texts may include *And the Mountains Echoed, My Sister's Keeper,* and book club selections.

Senior Writing/Dystopian Literature
Grade 12: 1 credit
Prerequisite: Junior Writing/Literature
This first half of this year-long course focuses on preparing students with the writing and analysis skills they will need to succeed in college and beyond. Students' compositions will be tailored to personal, practical, and academic applications. Through various forums, students will also practice the communication skills of reading, writing, listening, and speaking.

This second half of this year long course focuses on classic and contemporary literature with dystopian/apocalyptic themes. Anchor texts will be paired with film, short stories, poetry, and nonfiction selections for comparison and analysis through discussion and writing. Anchor texts may include *Station Eleven, 1984,* and book club selections.

Senior Writing/Satire
Grade 12: 1 credit
Prerequisite: Junior Writing/Literature
This first half of this year-long course focuses on preparing students with the writing and analysis skills they will need to succeed in college and beyond. Students' compositions will be tailored to personal, practical, and academic applications. Through various forums, students will also practice the communication skills of reading, writing, listening, and speaking.
Satire is a literary genre that uses irony, humor, and other techniques to create social or political criticism. While the tradition of satire dates back for as long as things have been funny, modern pop culture is also filled with satirical references and influences.
The second half of this year-long course looks at both the classic origins of satire and the modern manifestations of satirical traditions. Starting with the influences of Classical comedy as interpreted by writers such as Shakespeare and Jane Austen, the course moves forward through time to investigate how these same comedic techniques inform the work of modern authors such as Kurt Vonnegut and Douglas Adams as well as how early texts and techniques are infused into modern film and television, from *Clueless* to *The Daily Show*. Anchor texts may include *A Midsummer Night's Dream* and *Cat's Cradle*.

English Language Arts ELECTIVES
(these do NOT count towards the four required ELA credits needed for graduation)

Basic Debate
Grades 10-12 - .50 credit
Recommended for college preparatory students. This course deals specifically with research, analysis, and persuasion, providing students with the basic knowledge and skills necessary to write and participate in structured debates, group discussions, and persuasive speeches. Through various classroom activities and focused class time to prepare, students will present and prove the validity of their researched arguments. Most work is done within the class period.

Creative Writing Workshop
Grades 8-12 - .50 credit
Do you enjoy writing? Have you always wanted to write your own story? Find and develop your creative voice in this supportive workshop setting. Learn to use vivid detail, dialogue, and expressive language to write character-driven stories, dramatic scenes, and poetry. We will analyze short stories and poems to explore how writers and poets use different styles and techniques that you can apply in your own writing. You will be able to publish your work through various methods, such as contests, writing publications, etc.

Everything Harry Potter (offered again in year 2023-24 - every other year)
Grades 9-12 - .50 credit
This course is for the Harry Potter fan who recognizes the academic value of this popular series. Students will explore various themes that arise in the book and movie series such as

friendship, betrayal, family, and courage to name a few. They will integrate their reading, writing, listening, and speaking skills as they explore all aspects of the Harry Potter series from themes to the social, cultural and historical aspects. To enrich their study, students will participate in a variety of individual and small group creative activities. Most work is done within the class period.
Prerequisite: Students taking this course should have a general knowledge of the Harry Potter series as we will not be reading the books in class.

Mythology
Grades 9-12 - .50 credit
Students will read and discuss various classical (Greek, Roman, Norse, etc.) and modern myths using Joseph Campbell's Hero's Journey and archetypes . This will include students analyzing the way myths shaped culture. In addition, students will view films that have the common structure of the monomyth or Hero's Journey. Students will respond by reading, writing, listening and speaking as well as participating in individual and small group creative activities.

Popular Fiction (Offered again in year 2022-2023 - every other year)
***This Course will not be offered during the 2021-2022 School Year ***
Grades 9-12 - .50 credit
Students read examples of several types of popular fiction, including mystery, fantasy, thriller, and young adult. They also read theories about what makes certain types of literature popular and critical reviews of the texts and genres studied. By the end of this course, students are able to draw on their exposure to both popular literature and literary theory to explain the appeal of specific texts. Students will also have the opportunity to compare popular texts to their film adaptations.

Theater Arts I
Grades 10-12 - .50 credit
Do you enjoy being up and moving around? Do you enjoy getting to know the other members of your classes? Do you need a fine arts credit? Theatre Arts I focuses on basic foundations and techniques in acting, improvisation, character analysis, and movement. Taking this class will help you to make decisions with conviction, loosen up and laugh at yourself, collaborate and create relationships with students outside of your circle, and shift your perspective in a way that will promote empathy with others. AND, it's a ton of fun!

Theater Arts II
Grades 10-12 - .50 credit
Prerequisite: Theatre Arts I
Be sure to save room in your schedule for the second half of Theatre Arts. This will allow you to fill out the year and to use the two courses to fulfill a fine arts credit. Students will now delve more into acting, fine-tuning vocal and movement skills as well as elements of working together with scene partners. Confidence and creativity will build as students will create an end of year show to be performed for English classes. Former students report this is one of the most memorable classes and projects of their high school career. Don't miss out!

Writing for Publications I (year-long course)
Grades 8-12 - 1 credit
Prerequisite: B average in previous English classes

Teacher recommendation and instructor approval are required. This course will begin with an introduction to the principles of journalism and will progress to the publication of the student newspaper. Instruction will include gathering information for articles, journalistic style, headlines, page design and layout, photography. Students will be expected to meet deadlines and operate in a cooperative setting. Students taking this course should enjoy reading and writing.

Writing for Publications II (year-long course)
Grades 10-12 - 1 credit
Prerequisite: Writing for Publications I; B average in previous English classes
The purpose of Writing for Publications II (a year-long, one credit course) is to provide students who have already completed Writing for Publications I with a more advanced study of journalism, including, but not limited to the following: the First Amendment, ethics, libel, student press law, news writing, editorial writing, feature writing, entertainment writing, sports writing, photography, newspaper page layout and design, revision, publication, sales and distribution. Students taking this course should enjoy reading and writing.

Forensic Science and Literary Crime Drama (year-long course)
Grades 9-12 - .5 credit ELA/ .5 credit Science (Full Year)
9th grade Prerequisite: 8th grade English teacher recommendation.
This course is designed to study criminal investigations through the lens of scientific, literary, and theatrical studies. Students will be immersed in a multidisciplinary experience devoted to developing a well-rounded understanding of human behavior, while promoting a hands-on approach examining crime-based concepts. Students will explore criminal historical contexts and the nature of good vs. evil within a literary experience. Major topics will include processing a crime scene, collecting and preserving evidence, identifying types of evidence, hair, fibers, blood, DNA, and fingerprints. Students will transfer their knowledge by creating and re-enacting realistic crime scenarios and investigations. Students will use their analytical and imaginative skills to develop a forensic crime drama of their own.

FAMILY & CONSUMER SCIENCE Department

Sports Nutrition

Grades 9-12 - .50 credit

This course is for students interested in health, fitness and nutrition for an active lifestyle. Content includes an analysis of the specific nutritional needs of an athlete, exercise and physical fitness, body fat analysis, losing and gaining weight, healthy foods, sports drinks and nutritional supplements, creating a training diet, preparing for competition, and pre-game meals.

Career Mentorship

Grades 11-12 - (.5 credits per semester)

This independent study course will enable you to gain exposure and experience in a career field of your choice through a combination of job shadowing, on-the-job study and individualized research. Local opportunities might include insurance offices, law enforcement agencies, schools, senior citizen care facilities, landscaping businesses, retail establishments and restaurants. Additionally, you will take part in a variety of career planning activities. You will work with a career mentorship coordinator to complete self-evaluations, identify potential careers, create an educational plan, research a career field, and attend career fairs. You will create a portfolio documenting your course experience. The portfolio will include items such as logs, reflective journals, photographs, video recordings, work samples, and other evidence of engagement.

HEALTH & PHYSICAL EDUCATION Department

It is recommended that students take physical education and health during their 8th or 9th grade year. However, they can take these courses during 10th - 12th grade if necessary.

Physical Education I
Grade 8-12 - .25 credit
This semester class is a prerequisite for all other high school physical education classes and a graduate requirement. Students will learn the benefits of daily physical activity and the relationship of fitness to overall health. Through a variety of fitness activities and games (basketball, corn hole, flag football, floor hockey, pickleball, softball, team handball, volleyball, intro to weight room, and much more) designed to improve strength, flexibility, coordination, agility, and endurance, the students will learn to:
1) assess your current fitness levels
2) compare your fitness levels to national standards
3) develop and enact a plan to improve your fitness levels

Physical Education II
Grades 8-12 - .25 credit
Prerequisite – PE I
Students will advance their knowledge of the role of fitness in promoting health by participating in team, individual and contemporary fitness and recreational activities which will include: ultimate frisbee, bocce ball, badminton, eclipse ball, soccer, yoga, bosu ball, resistance band training, cardio-walking/jogging, T25, TapOutXT, and much more. These activities will serve to improve fitness levels and promote a desire to be physically active for life. Measurements of cardiovascular endurance, muscle strength and endurance, flexibility, and agility will be used to assess fitness and plan for improvement.

Training and Conditioning
Grades 9-12 - .25 credit
Prerequisite: PE I
Students of all fitness levels will use training, conditioning and nutritional techniques to improve strength, coordination, power, flexibility and speed. These techniques include weight training, plyometrics and stretching. It is organized around the "Bigger, Faster, Stronger" developmental program for physical and sports-related fitness. Students will be evaluated on daily participation, work, and fitness journal.

Health
Grades 8-10 - .50 credit
This one semester required course focuses on the capacity of an individual to obtain, interpret, and understand basic health information and services. It also is aimed at developing skills to use information and services, which are health enhancing. This course emphasizes the impact of lifestyle choices on all aspects of personal health. Subject matter in this course includes but is not limited to; nutrition, mental and emotional health, body systems, risk behaviors, diseases, healthy relationships, and substance abuse. This information and skills taught will help guide students to make healthy choices.

Physical Education Elective

NOT FOR Physical Education CREDIT

Intro to Sport Training

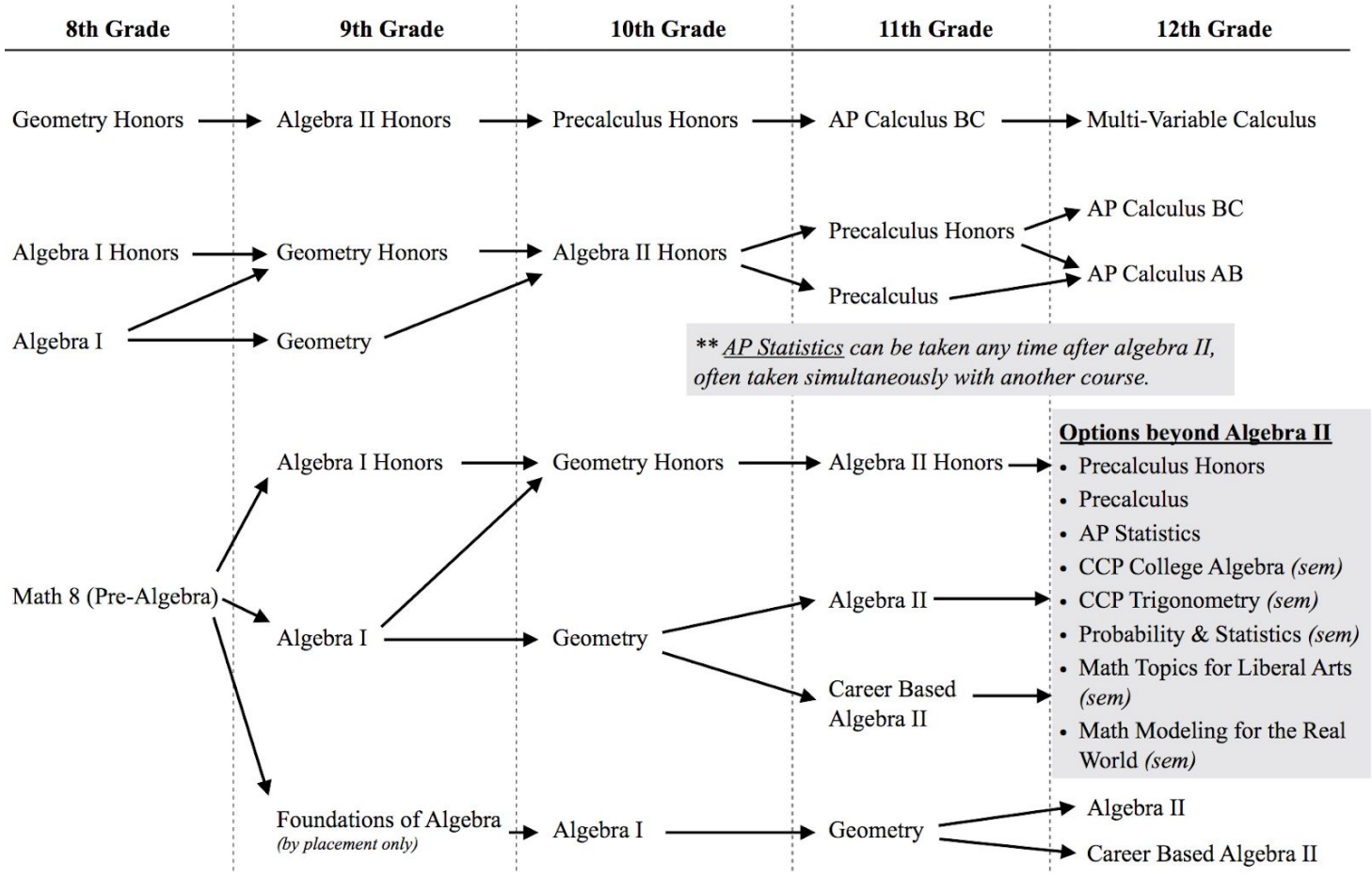
Grades 8-9 - .50 elective credit

An elective course designed to further promote the benefits of exercise through moderate to intensive training. Training is extremely important and should form an integral part of an athlete's daily routines. Training allows the body to increase strength and endurance, improve skill levels and build motivation. This course is for the student looking to maintain a healthy lifestyle, eliminate stress through physical activity, or train for sport-specific skills. This class will be a foundation for students to learn how to strength train in the weight room, speed/agility exercises for coordination and speed, and specific training to benefit an individual in their sport. Students will be required to complete a weekly journal/log documenting their physical activity for the week. Proper dress and maximum daily participation is required. This course is a fast paced, high-intensity, self motivated course. Students will be trusted and expected to participate to their full ability. **This class does not meet the physical education requirement for graduation.**

MATHEMATICS Department

* A graphing calculator is **<u>required</u>** for all math courses Algebra I and beyond. The TI-84 plus model is recommended.

The following flow chart gives an idea of what their math course of study could potentially look like based on which course they are taking upon entering high school in 8th grade.



** *Chart represents the most typical student pathways, but there is flexibility to meet individual student needs.*
** *Three new math-related electives are being offered next year. Please see descriptions below in the course of studies.*

Fundamentals of Algebra I 2 semesters 1 cr gr 9
Prerequisites: Pre Algebra (Math 8)
Description: Enrollment based on specific placement criteria. This is a first year high school mathematics course option for students who have completed Math 8 and yet will need substantial support to bolster success in high school mathematics. This course will provide many opportunities to revisit and expand the understanding of foundational algebra concepts, with focused interventions to build understanding and confidence. The course will emphasize both algebra and numeracy in a variety of contexts including number sense, proportional reasoning, quantitative reasoning with functions, and solving equations and inequalities.

Algebra I 2 semesters 1 cr gr 9
Prerequisites: Pre Algebra (Math 8) and/or Fundamentals of Algebra I
Description: Core Connections Algebra aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations and inequalities and systems; extending these skills to solving quadratic and exponential functions; exploring functions, including sequences, graphically, numerically, symbolically and verbally; and using regression techniques to analyze the fit of models to distributions of data.

Algebra I Honors 2 semesters 1 cr gr 8-9
Prerequisite: Successful Completion of Honors Pre Algebra 700 or Teacher Recommendation
Description: The pace of this course will allow for in-depth study of topics as it aims to deepen and extend student understanding built in previous courses. The course focuses on developing fluency with solving equations, inequalities and systems; extending these skills to solving quadratic and exponential functions; exploring and modeling functions, graphically, numerically, symbolically and verbally; and using regression techniques to analyze the fit of models to distributions of data. The course will require students to comprehend abstract mathematical topics and engage in abstract reasoning.

Geometry 2 semesters 1 cr gr 10-11
Prerequisites:
Description: Core Connections Geometry aims to formalize and extend the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions, building a formal understanding of similarity based on dilations and proportional reasoning, developing the concepts of formal proof, exploring the properties of two and three-dimensional objects, working within the rectangular coordinate system to verify geometric relationships, proving basic theorems about circles, and using the language of set theory to compute and interpret probabilities for compound events.

Geometry Honors 2 semesters 1 cr gr 8-10
Prerequisites: Successful Completion of Algebra I Honors or Teacher Recommendation
Description: The pace of this course will allow for in-depth study that formalizes and extends the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions, building a formal understanding of similarity based on dilations and proportional reasoning, study of right triangles utilizing the Pythagorean Theorem and trigonometric ratios, developing the concepts of formal proof, exploring the properties of two and three-dimensional objects,

working within the rectangular coordinate system to verify geometric relationships, proving basic theorems about circles, and using the language of set theory to compute and interpret probabilities for compound events. The course will require students to comprehend abstract mathematical topics and engage in abstract reasoning.

Algebra II 2 semesters 1 cr gr 11-12
Prerequisites: Successful Completion of Algebra I & Geometry
Description: Core Connections Algebra II aims to apply and extend what students have learned in previous courses by focusing on finding connections between multiple representations of functions, transformations of different function families, finding zeros of polynomials and connecting them to graphs and equations of polynomials, modeling periodic phenomena with trigonometry, and understanding the role of randomness and the normal distribution in making statistical conclusions.

Algebra II Honors 2 semesters 1 cr gr 9-11
Prerequisites: Successful completion of Geometry Honors or Teacher Recommendation
Description: The pace of this course will allow for in-depth study as students apply and extend what students have learned in previous courses by focusing on finding connections between multiple representations of functions, transformations of different function families, finding zeros of polynomials and connecting them to graphs and equations of polynomials, modeling periodic phenomena with trigonometry, and understanding the role of randomness and the normal distribution in making statistical conclusions. The course will require students to comprehend abstract mathematical topics and engage in abstract reasoning.

Career Based Mathematics 2 semesters 1 cr gr 11-12
Prerequisites:
Description: This career-based mathematics course focuses on a smaller number of topics taught in depth, with a balance among skills, understanding, reasoning and problem solving. This course is built from the content standards with an aim to extend what students have learned in previous math courses and make mathematical connections within specific career pathways. The curriculum engages students in using mathematical models to solve real-world problems through effective and accurate use of mathematical notation, vocabulary and reasoning. **To be enrolled in this course students must be concurrently enrolled in a career tech program.**

Pre-Calculus 2 semesters 1 cr gr 11-12
Prerequisites: Successful Completion of Algebra II
Description: In addition to covering all of the key concepts found in traditional trigonometry, pre-calculus, or math analysis courses, it emphasizes several big ideas that form a foundation for calculus and other college mathematics curricula. The key ideas presented include: transformations of functions, periodic functions and their graphs, area under a curve as a foundation for integration, inverses, exponentials, and logarithmic equations and applications, limits to infinity and at a point, properties of functions including continuity, increasing vs. decreasing, and concavity, average rates of change and instantaneous rates of change as a foundation for derivatives, and other graphical systems including polar and parametric, applications of vectors and trigonometric functions, algebraic fluency and simplification techniques, modeling using a variety of functions.

Pre-Calculus Honors 2 semesters 1 cr gr 10-12
Prerequisites: Successful completion of Algebra II Honors or Teacher Recommendation
Description: In addition to covering all of the key concepts found in traditional trigonometry, pre-calculus, or math analysis courses, it emphasizes several big ideas that form a foundation for calculus and other college mathematics curricula. The key ideas presented include: transformations of functions, periodic functions and their graphs, area under a curve as a foundation for integration, inverses, exponentials, and logarithmic equations and applications, limits to infinity and at a point, properties of functions including continuity, increasing vs. decreasing, and concavity, average rates of change and instantaneous rates of change as a foundation for derivatives, an other graphical systems including polar and parametric, applications of vectors and trigonometric functions, algebraic fluency and simplification techniques, modeling using a variety of functions.The course will require students to comprehend abstract mathematical topics and engage in abstract reasoning.

Math Modeling for the Real World 1 semester 1/2 cr gr 12
Prerequisites: Successful Completion of Algebra II
Description: This semester course incorporates mathematical concepts into real-world scenarios. Students will build college and career readiness skills such as problem solving, critical thinking, collaborating, conducting research, and making presentations. Students learn to represent relationships using equations, tables and graphs, and connect these representations to reach conclusions and make predictions. They apply mathematical representations to practical situations such as the Golden Ratio, time value of money, personal finance decisions, population trends, tracking flu epidemics, and other areas of business, economics, and technology.
Note: This semester math course is for non-calculus students who plan to pursue liberal arts, fine arts, business, military, philosophy or social sciences fields of study. Students intending to take Calculus or a Calculus-based course in post-secondary education should take Pre-Calculus.

Math Topics for Liberal Arts 1 semester 1/2 cr gr 12
Prerequisites: Successful Completion of Algebra II
Description: This semester course is designed to show how mathematics works directly and indirectly in our lives. Many of the problems, activities and discussions demonstrate how math relates to subjects like art, architecture, law, sports, sociology, psychology, business, economics, medicine, logistics and technology. The course allows students to explore historical as well as contemporary mathematical thinking, helping them see math at work in the world by presenting math through purposeful and meaningful contexts.
Note: This semester math course is for non-calculus students who plan to pursue liberal arts, fine arts, business, military, philosophy or social sciences fields of study. Students intending to take Calculus or a Calculus-based course in post-secondary education should take Pre-Calculus.

Probability and Statistics 1 semester 1/2 cr gr 11-12
Prerequisites: Successful Completion of Algebra II
Description: This is a semester course which gives students an alternative course option to obtain an additional 1/2 credit of math needed for graduation. This course features topics, techniques, and activities that involve students with real data. Topics include descriptions of

statistics, samples and surveys, organizing data, measures of central tendency, measures of variation, standard deviation, box and whisker plots, correlation of data, scatter plots, and linear regression. Topics will also include probability theory, rules and compound events, trees and counting techniques, random variables and probability distribution, binomial probabilities and additional properties of binomial distributions, normal curves and sampling distributions, graphs, areas under the standard normal distribution, areas under any normal curve, sampling distributions, the Central Limit theorem, normal approximation to binomial distributions.

CCP College Algebra 1 semester 1 cr gr 11-12
Prerequisites: Successful Completion of Algebra II
Additional Prerequisite: placement exam through Lakeland or math ACT score of 22
Description: This semester course investigates relations and functions numerically, analytically, and graphically. Topics include solutions of polynomial and rational equations and inequalities; exponential and logarithmic equations; systems of linear and nonlinear equations; conic sections; sequences and series; and mathematical modeling. Students will need to supply a graphing utility; the instructor will provide details. This course alone is not sufficient enough to fulfill prerequisites for AP calculus.

CCP Trigonometry 1 semester 1 cr gr 11-12
Prerequisites: Successful Completion of CCP College Algebra
Description: This course includes the study of trigonometric functions and inverse trigonometric functions and their graphs; solutions of right and oblique triangles and their applications; solutions of trigonometric equations; the use of identities, vectors, and complex numbers; and graphs of polar and parametric equations. Students will need to supply a graphing utility; the instructor will provide details.

AP Statistics 2 semesters 1 cr gr 10-12
Prerequisites: Successful Completion of Algebra II
Description: This college-level course is intended to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: describing patterns and departures from patterns; Sampling and Experimentation: planning and conducting a study; Anticipating Patterns: exploring random phenomena using probability and simulation; Statistical Inference: estimating population parameters and testing hypotheses.
Note: Because AP Statistics is not a "typical" math course, interested students should not be discouraged from doubling-up with another math course (i.e. Pre-Calculus). ***It is strongly recommended that students take the Advanced Placement Exam in May.***

AP Calculus AB 2 semesters 1 cr gr 11-12
Prerequisites: Successful Completion of Pre-Calculus
Description: AP Calculus AB is roughly equivalent to a first semester college calculus course covering topics in differential and integral calculus. This AP course covers topics in these areas, including concepts and skills of limits and continuity, rates of change and instantaneous rate of change, the definition of a derivative, Riemann sums, differentiation including velocity, acceleration, analyzing a curve, optimization, related rates, the Mean Value Theorem, integration including area under a curve, between curves, volumes of revolutions and known cross-sections, integration using substitution, differential equations, slope fields, l'Hopital's Rule, and the Fundamental Theorem of Calculus. The course teaches students to approach

calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. ***It is strongly recommended that students take the Advanced Placement Exam in May.***

AP Calculus BC 2 semesters 1 cr gr 11-12
Prerequisites: Successful Completion of Pre-Calculus Honors (A/B average)
Description: Calculus BC is an extension of Calculus AB where common topics require a similar and more advanced depth of understanding. In addition, students study Newton's method, improper integrals, as well as integrating with partial fractions and integrating by parts, arc length, convergence and divergence of infinite series, differentiation and integration of polar functions, as well as parametric functions and vector functions, logistic curves, Taylor and Maclaurin polynomials, as well as the error. ***It is strongly recommended that students take the Advanced Placement Exam in May.***

MULTIVARIABLE CALCULUS (Calculus III) 2 semesters 1 cr gr 12
Prerequisites: C or better in Calculus BC or by approval of the instructor
Description: This course is a continuation of Calculus BC. Many phenomena studied in science and engineering are described by functions of several variables and by vector valued functions. This course is an introduction to the calculus of such functions. Topics include vectors and the geometry of space, vector-valued functions, multiple integration and vector analysis.

MATHEMATICS ELECTIVE COURSES

The Cost of Living on Your Own **Grades 9 - 12 – .50 credit**
This course is a simulation of life in the real world. Through a simulation experience, you will learn about the reality of living on your own. You will find a job, analyze your pay stub, establish a budget, open a checking account, select housing, secure transportation, pay bills, figure taxes, and deal with crisis situations. Subject matter includes career development, housing, clothing, and food. Emphasis is placed on setting and reaching goals, managing personal finances, relating to others, solving problems, and teamwork.

Beautiful Connections: Math and Art **Grades 9 - 12 – .50 credit**
***This Course will not be offered during the 2021-2022 School Year ***
This course is designed to help students see the relationships between math and art. Just how interconnected are these two disciplines? Content includes student exploration of how the work of famous artists such as M.C. Escher is based in mathematics; the math behind photography; drawing techniques based on perspective, proportions and the golden ratio; architecture and math; designing optical illusions; computer art and fractals; plus many more connections. Throughout this project-based hands-on class students will be creating their own artwork.

Game and Puzzle Theory **Grades 9 - 12 – .50 credit**
This course takes a mathematical approach to playing games and solving puzzles. In this course, you will be introduced to all kinds of games—from games of pure strategy (like chess) to games of pure luck, to games that mix strategy and luck. You will analyze puzzles that have stumped people for centuries to modern favorites like sudoku and Rubik's Cube. The advice that you will receive ranges from the fundamentally practical to the mathematically interesting. You will improve your ability to play these games and solve these puzzles, but you will also

learn some interesting mathematics along the way.

MISCELLANEOUS COURSES

Yearbook
Grades 8-12 – 1 credit
Prerequisites: Teacher recommendation and permission of instructor
The staff of students in this course publish the school yearbook "The Hilltopper." Throughout this rigorous course, students will work to develop skills in five major areas of publication including layout and design, journalism, photography, marketing (advertising sales), and collaboration. Strong writing ability is necessary. Students must possess self motivation and discipline in order to meet long term deadlines and work in a collaborative classroom setting. Enrollment is limited and staff members are required to spend time after school hours to cover events and sell advertisements. A digital camera is not required.

Teen Leadership
Grades 9-12 – 1 credit
Teen Leadership Corp is designed to engage students in a meaningful set of community service activities: planning, community, education, budgeting, volunteer recruitment and management, public relations and fundraising. In this class, teams of students will design and implement a coordinated series of projects related to Teen Leadership Corps' prime mission of intergenerational service to the school and the community. This course serves a twofold purpose:
1. Addressing school and community based issues and needs.
2. Developing leadership, problem-solving and positive character skills for lifelong service and citizenship.

Chardon Service-Learning Cohort (teacher recommendation and application required)
Grade 12- 3 credits
This Chardon Service Learning course is a 3 credit, 12th grade elective which offers a unique opportunity to study math, science, english, and social studies through service learning and internships. In this nontraditional approach to learning, students will have the experience of a lifetime in which classical learning will be paired with hands-on, experienced based learning. This course offers an opportunity to match your volunteer interests and future endeavours with various like minded agencies and businesses. Each student will develop a weekly, self directed plan and with guidance from the instructors, decide how they will learn and demonstrate mastery of objectives. Enrollment into this class means that the student understands the importance of regular attendance, positive behavior, and motivation as a service and job oriented individual. Once enrolled, you will become an ambassador for Chardon Local Schools. This program will help guide you to a decision in choosing a course of action for your future career and give you important contacts and references.

Academic Decathlon
Grades 9-12 – 1 credit
Academic Decathlon is a premier academic competition. Chardon High School offers Academic Decathlon as a humanities course designed to prepare students for this competition. Teams compete at the regional, state, and national level. Each team must consist of three "A" students, three "B" students, and three "C" students, thus providing a classroom with a diverse mixture of students. The curriculum, which follows a different theme each year (for example

European Imperialism), covers a depth of knowledge in each of the following categories – art, music, math, literature, economics, science, and social sciences. In addition the students will work on writing skills, public speaking, and interviewing abilities.

Academic Decathlon Summer Reading

There will be summer reading and topic to be determined at a later date.

Senior Mentoring

Grade 12 - .50 credit

An application and committee recommendation are required

At the heart of the Freshman Mentoring Program (FMP) are the Senior Mentors. Seniors apply the previous spring to become one of 66 classroom mentors whose responsibilities incorporate taking daily attendance, planning daily classroom activities, tutoring students with academic needs, facilitating small group discussions, leading mini lessons and communicating with the FMP Coordinators.

MUSIC Department

Symphonic Band
Grades 9-12 -1 credit
This band is designed for students who can perform intermediate to advanced levels of band music. Members of this class will have a chance to perform various styles of band literature from orchestral transcription to pop music. An audition is required. Students in this ensemble are expected/encouraged to participate in marching band. Students who do not perform in marching band will be given other assignments.

Wind Ensemble
Grades 10-12 -1 credit
This band is designed for students who can perform advanced high school levels of music. Members of this class will have the chance to perform various styles of band literature from contemporary to orchestral transcriptions. **ATTENDANCE AT ALL PERFORMANCES IS REQUIRED**. Students in this ensemble are expected to participate in the Marching Band. An audition is required.

Women's Choir
Grades 9-12 - 1 credit
This organization is open to students in all grade levels who wish to sing but have not developed the necessary skills to sing in one of the advanced groups. Music is selected from all styles, classical to pop, and performed at several concerts throughout the year. A strong emphasis is placed on developing the techniques of good choral singing, sight-singing, and musicianship. **ATTENDANCE AT ALL PERFORMANCES IS REQUIRED.**

Symphonic Chorale
Grades 9-12 -1 credit
Prerequisite: Audition (female), No Audition for Males, one year of Concert Choir, or three years of middle school choir or equivalent.
This course is an upper level Choir; and is designed to refine choral singing ability, sight-singing skills and musicianship. Music studied includes sacred and secular classics, folk songs, spirituals, swing, Broadway and other styles reflective of various world cultures. This choir participates in Solo and Ensemble Contest, and OMEA District and State Competitions in addition to several concerts throughout the year. **ATTENDANCE AT ALL PERFORMANCES IS REQUIRED.**

History of Rock and Roll
Grades 10-12 – 1 Credit
The History of Rock and Roll course will introduce the student to the evolution of American popular music from its early blues roots to the music from 1950 to the 1990's. Students will study the social, political, technological, and economic forces that shaped the music as well as all major genres of rock music. The materials and facts presented in this class, in addition to being historical, are graphic and direct**.** The course includes detailed listening assignments and an introduction to musical vocabulary and concepts.

SCIENCE Department

Physical Science
Grade 9 – 1 credit
The subject matter will concentrate on physics and chemistry in this yearlong course. Various concepts will be explored in a laboratory setting and through class lectures and demonstrations. This course explores physical science at a conceptual level, and only basic math skills will be needed. Topics to be discussed include motion, forces, energy, heat waves, sound and light, phases of matter, the Periodic Table, chemical bonding, molecular mixing, chemical reactions and acids and bases. Skills necessary for the collection and interpretation of data will also be stressed.

Physical Science Honors
Grade 8 - 1 credit
Prerequisite: Teacher recommendation and successful completion of Algebra I Honors or concurrently be enrolled in Algebra I Honors
The subject matter will concentrate on physics and chemistry, using mathematical concepts and formulas. Various concepts will be explored in a laboratory setting and through class lectures and demonstrations. Physics topics to be discussed include motion, forces, energy, heat, waves, sound and light. Chemistry topics include phases of matter, the Periodic Table, chemical bonding, molecular mixing, chemical reactions and acids and bases. Skills necessary for the collection and interpretation of data will also be stressed.

Physical Science Honors
Grade 9 -1 credit
Prerequisite: Teacher recommendation and successful completion of Algebra I Honors or concurrently be enrolled in Algebra I Honors
The subject matter will concentrate on physics and chemistry, using mathematical concepts and formulas. Various concepts will be explored in a laboratory setting and through class lectures and demonstrations. Physics topics to be discussed include motion, forces, energy, heat, waves, sound and light. Chemistry topics include phases of matter, the Periodic Table, chemical bonding, molecular mixing, chemical reactions and acids and bases. Skills necessary for the collection and interpretation of data will also be stressed.

Biology
Grade 10 -1 credit
This course is designed to cover biological principles, zoology, human physiology, the study of diseases, heredity, and ecology. Dissections, demonstrations and experiments form an important part of the class activities.

Biology Honors
Grade 9-10 -1 credit
Prerequisite: Successful completion of Physical Science Honors and/or teacher recommendation.
This is an accelerated introductory biology course that deals with topics similar to those in regular biology, at a considerably faster pace. In addition, greater depth of coverage of genetics, molecular biology and biochemistry is included, with related laboratory exercises.

The overall focus is on processes being supported by structures, rather than on structures alone.

Environmental Science
Grades 11-12 -1 credit
This course studies the interaction of all of the earth's systems, including climate, geology and soils, plant distributions, and animal population changes. Current environmental issues are assessed from a scientific standpoint, including human effects such as pollution, erosion, extinction and global climate change. Labs focus on hands-on activities, biome modeling and interactions in food chains and food webs. This course requires successful completion of a year long project in order to earn credit for the course.

Anatomy & Biotechnology
Grades 11-12 -1 credit
It is helpful if students enrolling in this course have already completed chemistry. This course concentrates on human anatomy and physiology, and on the emerging field of biotechnology. Lab work focuses on DNA extraction, manipulation, and analysis, including forensics; cell and tissue types, and body systems and physiology. Students should have earned a C or better in Biology. This course is strongly recommended for students considering a health science career.

Chemistry
Grades 11-12 -1 credit
The topics covered are the following: Introduction to common laboratory equipment and procedures, laboratory safety, history of chemistry, measurements, physical and chemical properties, classification of matter, energy and temperature, atomic structure, periodic law, chemical bonding, formula writing, equation balancing, chemical calculations, gas laws, kinetic molecular theory, molecular composition of gases, state of matter, solutions and related properties, ionization theory, acids, bases, and salts, kinetics, heat of reaction, equilibrium, oxidation - reduction, and electrochemistry. Laboratory work and problem solving techniques will be stressed.

Chemistry Honors
Grades 11-12 -1 credit
This class is for the advanced or accelerated science and math student. A mastery of Algebra and Geometry concepts is essential to success in this class.
Topics covered are: Introduction to common laboratory equipment, safety equipment and procedures, history of chemistry, measurements, kinetic molecular theory, gas laws, formula writing, writing and balancing equations, atomic theory, periodic law, chemical calculations, chemical bonding, kinetic of chemical reactions, equilibrium, acid-base theory, oxidation - reduction, electrochemistry, and polymers. The laboratory approach is stressed and problem-solving techniques are utilized.

Physics
Grades 11-12 -1 credit
Suggested for students who have not yet reached the calculus level. It is recommended for students to be currently enrolled in Pre-Calculus.

Topics covered include the following: the behavior and nature of light (wave and particle models), kinematics, vectors, dynamics, laws of conservation of momentum and energy, static and current electricity, magnetism, atomic models and matter waves.

AP Physics I: Algebra-Based
Grades 11-12 – 1 credit
Required math level : Pre-calculus taken or are currently taking
This course is replacing the former "Physics Honors" course.
This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry, but rarely calculus. In most colleges, this is a one-year terminal course including a laboratory component and is not the usual preparation for more advanced physics and engineering courses. However, the course provides a foundation in physics for students in the life sciences, pre-medicine, and some applied sciences, as well as other fields not directly related to science. **It is strongly recommended that students take the Advanced Placement Exam in May.**

AP Physics C: Mechanics
Grades 11-12 -1 credit
Co-requisite: AP Calculus
AP Physics C: Mechanics is intended to prepare students for the AP Physics C exam in the area of Newtonian mechanics. This calculus-based science course will thoroughly examine the topics of kinematics, Newton's laws of motion, work, energy, power, systems of particles, linear momentum, circular motion, rotation, oscillations and gravitation. The course meets seven periods per week to allow for laboratory investigations. **It is strongly recommended that students take the Advanced Placement Exam in May.**

AP Biology
Grade 11-12- credit
Prerequisite: Completion of Chem. and Bio. Honors; or permission of instructor
AP Biology is a year-long course that is designed to prepare students for the Advanced Placement Exam in Biology. The course is designed around the new AP Biology curriculum framework that focuses on the Big Ideas in biology and their connections. The curriculum provides a basis for students to develop strong conceptual understanding in biology and the opportunity to integrate that knowledge through inquiry-based activities and laboratory investigations. There is less memorization and more content depth. Reading skills are very important for the format of the new test. The AP biology curriculum is structured around four Big Ideas: Evolution, Energy Processes, Information, and Interactions. These ideas encompass the core principles and the theories of all living systems. To master the concepts, students will learn through modes of:Tests, quizzes, labs, activities, video lectures, current event articles, and scientific journals. **It is strongly recommended that students take the Advanced Placement Exam in May.**

AP Chemistry
Grade 11-12 -1 credit
Prerequisite: Chemistry & Algebra II.
This class is for the advanced student who wishes to prepare for the AP exam in Chemistry. Review of basic Chemistry principles followed by work with kinetics, acid/base reactions,

thermo-dynamics, and equilibrium systems. The required laboratory work for the AP exam is incorporated into the lab work. This class meets seven periods per week. **It is strongly recommended that students take the Advanced Placement Exam in May.**

AP Environmental Science
Grade 10-12 - 1 credit
Prerequisite: Physical Science and Biology
AP Environmental Science is a rigorous, interdisciplinary course focusing on the application of scientific concepts and principles to the understanding and methodologies regarding solution of environmental problems and issues. An equivalent to a college-level class, this course includes lecture, laboratory and field components through which students will learn about environmental issues while developing and applying critical thinking, problem solving and communication skills. **It is strongly recommended that students take the Advanced Placement Exam in May.**

Robotics
Grade 8-9: .5 credits
This is a beginning course in robotics. We will be utilizing Lego Mindstorm kits, Robolab software and various Lego Robotics materials. The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of a LEGO Mindstorm robot. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be programmed to compete in various courses as developed by First Lego League.

Astronomy:
Grades 9-12 - .50 credit
Concepts will be explored in a laboratory setting and through class activities and demonstrations. Topics to be covered are the evolution of stars, astronomical measurement, history of astronomy, planets, constellations and use of astronomy tools. This course is for students interested in the “why” of astronomy who would like some hands-on experiences and a better understanding of the universe around us.

Forensic Science
Grades 9-12- .50 credit
Prerequisite: concurrently be enrolled in Biology or have completed
Forensic Science is a semester long, elective class. It is an inquiry-based course rich in exploration and lab investigations that cover many disciplines of scientific study such as biology/anatomy, chemistry, and physics for the purpose of solving crimes. Topics covered include, but are not limited to, observation skills, crime scene investigation, hair and fibers, fingerprints, DNA fingerprinting and blood. Throughout topics case studies and/or current events will be explored as well as student-centered learning activities. A student fee will be needed for lab consumables.

Forensic Science and Literary Crime Drama

Grades 9-12 .5 credit ELA/ .5 credit Science (Full Year)

This course is designed to study criminal investigations through the lens of scientific, literary, and theatrical studies. Students will be immersed in a multidisciplinary experience devoted to developing a well-rounded understanding of human behavior, while promoting a hands-on approach examining crime-based concepts. Students will explore criminal historical contexts and the nature of good vs. evil within a literary experience. Major topics will include processing a crime scene, collecting and preserving evidence, identifying types of evidence, hair, fibers, blood, DNA, and fingerprints. Students will transfer their knowledge by creating and re-enacting realistic crime scenarios and investigations. Students will use their analytical and imaginative skills to develop a forensic crime drama of their own.

SOCIAL STUDIES Department

Modern World History
Grade 9 -1 credit (.5 credits/semester)
Modern World History traces the history of major world civilizations from the Enlightenment through modern times. In addition to the history of these civilizations, this course will emphasize world governmental and economic systems, as well as geography. This course is designed to prepare students for the Ohio Graduation Examination.

Modern World History Honors
Grade 9 -1 credit (.5 credits/semester)
Prerequisite: Teacher recommendation
Modern World History traces the history of major world civilizations from the Enlightenment through modern times. This course is designed for students with strong writing and reading skills. This is a college preparatory course that will require several research-based papers and assignments. This course is also designed to prepare students for the Ohio Graduation Examination.

AP Human Geography
Grade 9-12- 1 credit
Prerequisite: Teacher recommendation (9th)
AP Human Geography presents students with the curricular equivalent of an introductory college-level course in human geography. Content is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human–environment relationships on places, regions, cultural landscapes, and patterns of interaction. *It is strongly suggested that students take the AP Exam in May.*

******NOTE:** This course will satisfy a student's "World History" requirement. **9th grade students enrolled in this course WILL NOT be able to drop this course after the 2nd week of classes.** This course does not align with World History. Students do not have the ability to drop AP Human Geography and move into World History.*

20th Century US History
Grade 10 -1 credit
This course covers the social, economic, and political history of the U.S.A. in the 20th Century. This class will use objective tests such as multiple choice and matching, short essays and fulfills the U.S. History requirement for graduation. This course will also prepare students for the Ohio United States History AIR Exam.

20th Century US History Honors
Grade 10 - 1 credit
Prerequisite: Teacher recommendation
This is a decade by decade survey of U.S. History in the Twentieth Century. All aspects of social, economic, political life will be examined. This is an accelerated, college prep course. It will include all types of tests, strong reading emphasis and writing research papers. This

course fulfills the U.S. History requirement for graduation. This course will also prepare students for the Ohio United States History AIR Exam.

US Government
Grade 11-12- 1 credit
This class is a graduation requirement. It will survey the United States Constitution and its applications in American life. Topics will include the following: basic theory of government, the roles and functions of the three branches of our government, practical applications of good citizenship. A financial literacy component will be introduced during a portion of the year.

US Government Honors
Grade 11-12- 1 credit
Prerequisite: United States History and teacher recommendation
US Government is a graduation requirement. This course will survey the United States Constitution and its applications in American life. Topics will include the following: basic theory of government, the roles and functions of the three branches of our government, practical applications of good citizenship. A financial literacy component will be introduced during a portion of the year. As an Honors level course, students are held to a higher level of accountability and expectations for their performance in the class. Content will move at a faster pace, with a more in-depth look.

AP US Government and Politics
Grade 11-12 - 1 credit
Prerequisite: United States History and teacher recommendation
This AP US Government and Politics course covers the constitutional underpinnings of the US Government; political beliefs and behaviors; political parties, interest groups, and mass media; institutions of national government; the Congress, the presidency, the bureaucracy, and the federal courts; public policy; and civil rights and civil liberties. ***It is strongly recommended that students take the AP Exam in May.***

AP World History
Grades 11-12 -1 credit
Prerequisite: Modern World History/AP Human Geography & Teacher Recommendation
AP World History is a course that allows the student to examine all parts of human historical development. It is designed for the student with strong writing and reading skills. In preparation for the AP Exam in May, students will interpret a great number of documents from various sources, and be required to do extensive reading beyond the textbook. ***It is strongly recommended that students take the AP Exam in May.***

AP US History
Prerequisite: United States History and teacher recommendation
Grades 11-12 -1 credit
This course will offer a detailed study of American History from earliest Indian migrations through the end of the Cold War. In preparation for the AP Exam, students will interpret a great number of primary documents, do extensive reading beyond the textbook and do expansive writing assignments. ***It is strongly recommended that students take the AP Exam in May.***

AP Psychology
Grades 11-12 - 1 credit
Prerequisite: Grade 10: Teacher recommendation required
The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. ***It is strongly recommended that students take the AP Exam in May.***

Military History
Grades 10-12- .50 credit
Prerequisite- World History
This course will examine both a tragic and fascinating recurring theme in the human story: armed conflict. From a primarily western civilization perspective, students will learn to think critically about war as it has occurred across time and continents. Students will analyze how cultural, political, and social institutions have been causal agents of war as well as how they have been shaped by war.

Psychology
Grades 10-12 - .50 credit
Prerequisite: Grade 10: Teacher recommendation required
This course is a basic study of human behavior geared toward application for everyday living. Consideration of human interpersonal relations, personality, development, perception and mental health offers students the opportunity to examine and further understand themselves, their behavior and attitudes, and the behavior and attitudes of others.

Sociology
Grades 10-12 - .50 credit
This course is a survey of the causes of social behavior with an introduction to the ways of investigating and analyzing that behavior.

Criminal Justice
Grades 10-12 - .50 credit
Criminal Justice is a course that looks in depth at the criminal justice system. Topics will include the various types of crimes, police/law enforcement, the court system, and the corrections system. The course is set up to assist students who are considering pursuing a career in criminal justice or are interested in the field.

Nazi Germany: The Rise and Fall of Adolf Hitler
Grades 10-12 - .50 credit
Prerequisite: Modern World History of AP Human Geography
This course examines Adolf Hitler's rise to power and the eventual decline of Nazi Germany from 1918-1945. The course will emphasise why and how Adolf Hitler came to power, the Nazi political party, and dictators who were German allies. A major emphasis of the course will include World War II, the Holocaust, and the Allies' response to German aggression.

International Relations

***This Course will not be offered during the 2021-2022 School Year ***

Grades 10-12 - .50 credit

International Relations will look at the relationship between nations. The course will focus on modern world conflicts and how these are influenced by culture, the physical environment, economics, and international organizations. A significant portion of the course will be devoted to current world conflicts and events.

AP European History

***This Course will not be offered during the 2021-2022 School Year ***

Grade 10-12 - .50 credit

Prerequisite: World History

This one semester course follows the one-year world history course and is designed to teach students essay testing and critical evaluation of original documents. It will be tied to a review of important ideas in European history and preparation for the European History Advanced Placement Test for possible college history credit. ***It is strongly recommended that students take the AP Exam in May.***

TECHNOLOGY Department

Multimedia Design
Grades 8-12 - 1 credit
Students in MultiMedia Design are responsible for recording, producing, and editing the Chardon High School daily announcements. Students gain an understanding of video and audio editing software through practical, real-world experience. Additionally, students use hardware needed to perform video and audio recording, both in and out of the recording studio. Students gain a variety of hands-on experiences through a rotating schedule of jobs needed to produce a daily video broadcast, including in front of and behind the camera.

Web Design I
Grades 9 -12 - .50 credit
WebD2 is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality, learn how to create and maintain quality web pages, learn about web design standards and why they're important, and learn to create and manipulate images. The course progresses from introductory work on web design to a culminating project in which students design and develop websites for local community organizations.

Game & Application Design
Grades 8 -12- .50 credit
What is Game and Application Design? It is a new class for students who enjoy a gaming challenge. A class that not only teaches students how to create well-designed apps, but an app that just might make a difference in the world. Students will learn the fundamentals of app creation with a global purpose and vision in mind. Applying real world skills, students will take on the role of a designer for a video game company and come up with an idea for a simple new video game. Students will work in teams to develop the theme of the game, its rules, and the look and feel of the game. Each team will design the user interface for the game and produce game art.

AP Computer Science Principles
Grades 9-12- 1 credit
Prerequisite: Algebra I
AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field.
To appeal to a broader audience, including those often underrepresented in computing, this course highlights the relevance of computer science by emphasizing the vital impact advances in computing have on people and society. By focusing the course beyond the study of machines and systems, students also have the opportunity to investigate innovations in other fields that computing has made possible and examine the ethical implications of new computing technologies. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using simulations to explore questions that interest them.

WORLD LANGUAGE Department

The goal of the World Language Department is to teach each student as if they are continuing on to the highest level offered. Both languages offered involve skill in listening, speaking, reading, and writing, as well as memorization of vocabulary, spelling, and grammar. Please note that the World Language department strongly recommends a minimum final grade of C before a student advances to the next level in either language. World Language is not required for graduation from high school. World Language is recommended for college bound students. Some, not all, colleges require two or more years of a foreign language.

Passport to Language **One Semester**

Grades 8-9 - .50 High School elective credit

Join us as we delve into Spanish and French! We will be investigating culture and vocabulary in both languages. Follow us as we learn to communicate on an introductory level. We will explore practical topics such as greetings, weather, time, and colors. Sign up today to begin your passport to the future.

Passport to World Cultures **One Semester**

Grades 8-9 - .50 High School elective credit

This is an exciting course for 8th grade students wanting to explore diverse cultures. What unites the people of Africa, Europe, Asia, the Americas, and the Pacific? We will research their values in education, food traditions, sports and leisure, fashion, and more while sharing creative products such as Instagrams, Fakebook pages, picture books, and videos. Come with us on this global semester adventure.

French 1/Spanish 1

Grades 8-12 -1 credit

This course is an introduction to communicating in French or Spanish by means of building basic vocabulary and developing the skills of listening, speaking, reading, and writing. The class includes an introduction to culture in the various countries where the languages are spoken. ***Strong*** memorization skills and an understanding of grammar concepts and usage is required in this course. Students who struggle in English classes may find world languages very challenging.

French 2/Spanish 2

Grades 9-12 -1 credit

Prerequisite: French I, Spanish I.

Our second-year course builds on the foundation established in level I. The class expands grammar concepts, along with further study of culture, vocabulary, and skills in communication.

French 3/Spanish 3

Grades 10-12 -1 credit

Prerequisite: French II, Spanish II.

This course takes the student to a more sophisticated level in the language, especially in the use of more complex grammar, variety of verb tenses, comprehension, and speaking. Studies in culture, reading, and communicative skills are more detailed and more refined.

French 4/Spanish 4
Grades 11-12 -1 credit
Prerequisite: French III/Spanish III and teacher recommendation
The focus of this course is to continue to expand the student's knowledge of vocabulary, grammar, and culture in Spanish, while developing the three modes of communication: interpretive, interpersonal, and presentational communication. This class will begin to introduce students to AP topics such as the six course themes, and several of the free response tasks.

AP French Language and Culture/AP Spanish Language and Culture
Grade 12 -1 credit
Prerequisite: French III, Spanish III.
Our fourth-year course is geared for those wishing to obtain college credit, especially on the AP exam. The class includes grammar review, writing, and conversation. In addition to practice for taking the AP exam, students will study detailed culture topics, current events, and literature. Decision to take the AP test will have to be made in October. ***It is strongly recommended that students take the AP Exam in May.***

World Language Summit I and II- *Spanish*
Grade 12 -.5 credit (semester course)
Prerequisite: AP Spanish or AP Spanish Exam credit
Designed for the student that has already taken AP Spanish Language and Culture, that wants to maintain their language skills while continuing to explore the Spanish-speaking world. This course will encompass geography, film, literature, food and other cultural aspects of the Spanish-speaking world. This semester class will be conducted entirely in Spanish and is nonsequential. AP Spanish Language and Culture is a prerequisite for taking this course.

World Language Summit I and II- *French*
Grade 12 -.5 credit (semester course)
Prerequisite: AP French or AP French Exam credit
Designed for the student that has already taken AP French Language and Culture, that wants to maintain their language skills while continuing to explore the French-speaking world. This course will encompass geography, film, literature, food and other cultural aspects of the French-speaking world. This semester class will be conducted entirely in French and is nonsequential. AP French Language and Culture is a prerequisite for taking this course.

NCAA Eligibility

For those who plan to participate in Division I or Division II College Athletics

You must be certified by the NCAA Eligibility Center (formerly NCAA Clearinghouse) to establish initial eligibility. Appropriate coursework must be carefully planned each year to ensure compliance.

Seniors should register with the Eligibility Center on-line at **www.eligibilitycenter.org** by the fall of their senior year or earlier.

See your Athletic Director or School Counselor if you have any questions.

TITLE IX
The Chardon Local School District does not discriminate on the basis of sex, race, religion, handicap, national origin or marital status as required by Title VI of the 1964 Civil Rights Act, Title IX of the 1972 Educational Amendments, or Section 504 Regulations of the 1973 Rehabilitation Act.

If you have questions or concerns, contact Dr. Hanlon, Title IX Compliance Officer, Chardon Board of Education, 428 North Street, Chardon, Ohio 44024 (285-4052).

Chardon High School

Eighth Grade Program of Studies

2021-2022

Welcome to the High School!

We know many of you are excited about starting your high school experience at Chardon Local Schools. We also know that many of you are nervous about moving to high school. At Chardon High School, we understand that the 8th grade student is filled with numerous feelings about the upcoming school year. The staff at Chardon High School is eager for your arrival and look forward to building 21st century skills to better prepare you for future success.

As an 8th grade student at Chardon High School, you are presented with the opportunity to extend your education in a multitude of different directions. The 8th grade year prepares students for higher level learning to assure success in high school courses, while also reinforcing skills learned in the earlier grades. At Chardon, we feel that having the 8th grade at the high school is an advantage for students to excel in areas not attainable before our transition.

Being at the high school allows all Chardon 8th graders opportunities that children in other districts do not have. The 8th grade Chardon Student has the opportunity to complete middle school content in all subjects, but also being offered the option of taking high school level courses in a multitude of differing content areas.

Students will be placed in all core classes based on teacher recommendations. 8th graders have the capability to choose electives and **Circuit of Success** sections that align with their likes and interests. Please review the choices offered to you with a school counselor, parent, guardian, or mentor. You should choose classes you would be successful in and enjoy. It is recommended that you choose classes based on your individual skills and passions. The changing of classes during the school year is extremely difficult due to sections being filled quickly. Please make your selections seriously and mindfully.

8th Grade 2021-2022 Course Registration

Last Name_____ First Name _____

COURSE TITLE				CREDIT
MATHEMATICS:	Math 8 (Pre-Algebra)	Algebra I Honors*	Geometry Honors*	1
ENGLISH:	English 8	English I Honors*		1
SCIENCE:	Science 8	Physical Science Honors*		1
SOCIAL STUDIES:	Social Studies 8			1
Circuit of Success				1
 + Circle 3 from below				
Principles of Innovation (.25)		**Principles of Problem-Solving (.25)**		
Principles of Global Awareness (.25)		**Principles of Communications (.25)**		
Principles of Entrepreneurship and Networking (.25)				

<u>Electives:</u> Students should take a minimum of 2 credits additional credits

	<u>Code</u>	**<u>Course Title</u>**	**<u>Credit</u>**
<u>1.</u>			
<u>2.</u>			
<u>3.</u>			
<u>4.</u>			
<u>5.</u>			

<u>Please write at least two alternative elective courses below:</u>

1. _____ 2. _____

Student Signature: _____ Date: _____
Parent Signature: _____ Date: _____

Eighth Grade Core Courses

English 8
This course is designed around high-quality literary and informational texts to develop the skills in reading, writing, speaking and listening that are the foundation for creative and purposeful expression in language. It will address the eighth grade Ohio Learning Standards. Emphasis will be placed on close, attentive, and critical reading to tackle complex texts and evaluate intricate arguments. Student writing will be developed as a means of asserting and defending claims, demonstrating what the students know, and conveying what they have thought, felt, or experienced. Students experience a variety of writing experiences tied to what they are reading including: routine writing, analytical writing, and narrative writing. Students will learn to research and present their findings in a variety of informal and formal ways including oral presentations, argumentative or explanatory compositions, and/or multimedia products.

English I Honors
Grades 8-9- 1 High School Credit
Prerequisite: Advanced English Language Arts 700 or Teacher Recommendation
The course offers a challenging and rigorous year long course of differentiated instruction appropriate to individual students. Activities are differentiated through depth, novelty, complexity, and acceleration. This course is literature based, exploring short stories, novels, myth, drama, and poetry to provide a basis for reading, writing, discussing, and listening. Writing assignments include a variety of essay formats- narrative, response to literature, analytical, persuasive and research.

Math 8 (Pre-Algebra)
This course continues to build the foundation necessary for success in the study of algebra. It will address the eighth grade Ohio Learning Standards. It will focus on the number system including rational and irrational numbers and radicals; expressions and equations including multi-step equations and laws of exponents; graphing linear equations and slope including solving simple systems of linear equations; geometric concepts including Pythagorean Theorem and transformations; and an introduction to bivariate statistics including creating and interpreting scatterplots.

Algebra I Honors	2 semesters	1 cr	gr 8-9

Prerequisite: Successful Completion of Honors Pre Algebra 700 or Teacher Recommendation
Description: The pace of this course will allow for in-depth study of topics as it aims to deepen and extend student understanding built in previous courses. The course focuses on developing fluency with solving equations, inequalities and systems; extending these skills to solving quadratic and exponential functions; exploring and modeling functions, graphically, numerically, symbolically and verbally; and using regression techniques to analyze the fit of models to distributions of data. The course will require students to comprehend abstract mathematical topics and engage in abstract reasoning.

Geometry Honors	2 semesters	1 cr	gr 8-10

Prerequisites: Successful Completion of Algebra I Honors or Teacher Recommendation
Description: The pace of this course will allow for in-depth study that formalizes and extends the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions, building a formal understanding of similarity based on dilations and proportional reasoning, study of right triangles utilizing the Pythagorean Theorem and trigonometric ratios, developing the concepts of formal proof, exploring the properties of two and three-dimensional objects, working within the rectangular coordinate system to verify geometric relationships, proving basic theorems about circles, and using the language of set theory to compute and interpret probabilities for compound events. The course will require students to comprehend abstract mathematical topics and engage in abstract reasoning.

Science 8
There are three areas of concentration: Earth Science-focuses on the physical features of Earth and how they are formed. It will address the eighth grade Ohio Learning Standards.This includes interior of Earth, rock record, plate tectonics and landforms. Physical Science which focuses on forces and motion within and around the Earth and the universe. Life Science: focuses on the continuation of the species (reproduction, diversity of species, and genetics).

Physical Science Honors
Grades 8-9- 1 High School Credit
Prerequisite: Teacher Recommendation. It is highly recommended that students have taken or be enrolled in Honors-level Algebra in order to be enrolled in this class.
The subject matter will concentrate on physics and chemistry, using mathematical concepts and formulas. Various concepts will be explored in a laboratory setting and through class lectures and demonstrations. Physics topics to be discussed include motion, forces, energy, heat, waves, sound and light. Chemistry topics include phases of matter, the Periodic Table, chemical bonding, molecular mixing, chemical reactions and acids and bases. Skills necessary for the collection and interpretation of data will also be stressed. Students should have a strong interest in science and a willingness to complete work outside of class time.

Social Studies 8
The historical sequence picks up where students left off at the end of seventh grade with an in-depth study of the early years of European exploration and settlement of what will become the United States. From there we will move forward in time through the American Revolution, the writing of the US Constitution, Western Expansion, the Industrial Revolution and the American Civil War. The end of the course is marked by the year 1877, the end of Reconstruction following the American Civil War. In our study, we will incorporate standards that Ohio has adopted for social studies. These include strands from history, geography, government, and economics. As students examine a historic event they will look for ways each of the strands apply to that event. Heavy emphasis is placed on the analysis and exploration of primary sources as well as how one's perspective influences their experience and interpretation of history.

Elective Courses for eighth graders (Non-High School Credit)

Sculpture 8 **One Semester**

This class is intended to further the understanding of 3-dimensional art forms including sculptural techniques, ceramics, and basket weaving. Students will experiment with hand-building techniques. They will use found objects (trash) and transform them into recycled works of art. This class will teach students to appreciate all forms of art regardless of the artist's media choice.

Pottery 8 **One Semester**

The pottery class will be built upon various clay mediums (polymer, gray clay, terracotta and possibly porcelain). The class will expand hand building skills and techniques as well as cover several glazing techniques (stamping, decals transfers, resists and graffito). In addition the class will also introduce centering and working with clay on the pottery wheel.

Visual Arts 8 **One Semester**

Drawing and painting in the eighth grade continues to stress the importance of the elements while adding the principles of design and how they guide the artists in the creation of their work. The class focuses upon developing the ability to work realistically using understanding; composition, perspective, proportion, and shading.

Financial Literacy **One Semester**

Personal financial literacy will give students the building blocks needed to conquer some of the biggest financial decisions they will make throughout their lives. Students will hone their problem solving and critical thinking skills through simulations such as managing a paycheck, understanding the costs associated with borrowing and choosing the right insurance policy. Students will be tasked with goal setting and formulating a financial plan that encompases spending, saving and giving.

PODCast **One Semester**

Students work in groups to research and create a variety of broadcasts and presentations on student and teacher selected topics.

Band **Full Year Course**

This class includes a study of instrumental performance skills for students in their fourth year of playing. The principles of musicality, active listening and blend/balance in an ensemble will be stressed. This class will also focus on learning the elements of music through performance. Performances outside of the school day are required for this class. Students will play their instrument in class every day and continue to build their performance skills. Students will participate in four (4) required evening concerts per year (typically one per quarter) and have the opportunity to participate in several optional opportunities. Students must have participated in 5th, 6th, and 7th grade band or have taken private lessons to the point of being able to play level 2.5-3 band music. This course is taught with the expectation that students have had three (3) years of playing experience and are making a full year commitment to the course.

Choir **Full Year Course**

All CMS students have the opportunity to participate in chorus. During chorus we work to improve individual singing skills and to develop musical literacy through musical performance. We work as a team to put forth exciting and interesting programs. No prior musical experience is required for this course. An interest in learning about music and being a part of the team is a must. Students are expected to actively participate in classroom activities as they work to improve their individual abilities. Students are required to participate in two (2) evening concerts per year (December and May).

Computer Science Discovery **One Semester**

An introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem-solving, and fun. The first Unit covers the problem-solving process, and asks the questions "What makes a computer a computer?" With the next Unit, students will find themselves designing and creating a personal website containing several web pages using HTML and CSS. Finally, the course will conclude with students developing a computer game that uses animation, background, variables, sprites, and interaction ."

Elective Courses for High School Credit

CBI Foundation I - C.R.E.W.

Grades 8-9 - (.5 to 2 credits) (Varies)

This course encourages you to think about your future plans. It is designed to assist you to research the paths of employment, enlistment, entrepreneurship or enrollment. You will take a close look at the world of work to identify potential career opportunities that match your aptitudes, personality and interests. Course content includes career research, identifying and developing a solid foundation of employability skills such as: safety, ethics, readiness, customer service, communication, teamwork, and problem solving. Financial realities and techniques for balancing work and personal life will also be included.

CBI Work Based Learning I

Grades 8-10 - (.5 to 2 credits) (Varies)

Work-based learning component can be fulfilled through:

- Paid co-operative work-based learning experiences
- Non-paid career exploration opportunities (examples: job shadowing, short-term field experiences, internships, volunteering & community service, and/or service learning)
- A combination of both

Creative Writing Workshop **One Semester**

Grades 8 - .50 credit

Do you enjoy writing? Have you always wanted to write your own story? Find and develop your creative voice in this supportive workshop setting. Learn to use vivid detail, dialogue, and expressive language to write character-driven stories, dramatic scenes, and poetry. We will analyze short stories and poems to explore how writers and poets use different styles and techniques that you can apply in your own writing. You will be able to publish your work through various methods, such as contests, writing publications, etc.

Writing for Publications I (year-long course)
Grades 8-12 - 1 credit
Prerequisite: B average in previous English classes
Teacher recommendation and instructor approval are required. This course will begin with an introduction to the principles of journalism and will progress to the publication of the student newspaper. Instruction will include gathering information for articles, journalistic style, headlines, page design and layout, photography. Students will be expected to meet deadlines and operate in a cooperative setting. Students taking this course should enjoy reading and writing.

Health **One Semester**
Grades 8-12 .50 High School Credit
This course focuses on understanding communicable and noncommunicable diseases. The course emphasizes understanding risk factors, prevention, and treatment of chronic and degenerative diseases. Additionally students will be introduced to safety and emergency skills and basic first aid techniques. The course emphasizes the impact of lifestyle choices on all aspects of personal health including physical, mental, emotional, social, and environmental. Activities in this course may include but are not limited to: nutrition, physical fitness, lifetime activities, stress management, disease prevention, substance abuse, and healthy relationships. The information and skills necessary for making informed and healthful decisions to promote wellness will be discussed with an emphasis on others.

Physical Education **One Semester**
Grades 8-12 - .25 High School Phys Ed credit
One of the Physical Education Department's primary goals is to introduce students to a wide variety of sports and recreational activities that could lead to a lifetime of enjoyment, fitness awareness, and physical activity. Students will focus on developing and/or improving their *advanced* skills in a variety of **Invasion games** (i.e., Soccer, Floor Hockey, Lacrosse), **Net/Wall games** (i.e., Badminton, Volleyball, Ping Pong, Tennis, PickleBall), **Striking/Fielding games** (i.e., Cricket, Diamond Ball, Softball), and **Target games** (i.e., Golf, Striker Ball)

Intro to Sports Training **One Semester**
Grades 8-10 - .50 High School elective credit
An elective course designed to further promote the benefits of exercise through moderate to intensive training. Training is extremely important and should form an integral part of an athlete's daily routines. Training allows the body to increase strength and endurance, improve skill levels and build motivation. This course is for the Student looking to maintain a healthy lifestyle, eliminate stress through physical activity, or train for sport-specific skills. This class will be a foundation for students to learn how to strength train in the weight room, speed/agility exercises for coordination and speed, and specific training to benefit an individual in their sport. Students will be required to complete a weekly journal/log documenting their physical activity for the week. Proper dress and maximum daily participation is required. This course is a fast paced, high-intensity, self motivated course. Students will be trusted and expected to participate to their full ability. **This class does not meet the physical education requirement for graduation.**

Yearbook **Full Year Course**

Grades 8-12 – 1 High School elective credit

Prerequisites: Teacher recommendation and permission of instructor

The staff of students in this course publish the school yearbook "The Hilltopper." Throughout this rigorous course, students will work to develop skills in five major areas of publication including layout and design, journalism, photography, marketing (advertising sales), and collaboration. Strong writing ability is necessary. Students must possess self motivation and discipline in order to meet long term deadlines and work in a collaborative classroom setting. Enrollment is limited and members are required to spend time after school hours to cover events and sell advertisements. A digital camera is not required.

Robotics **One Semester**

Grades 8-9 - .50 High School elective credit

This is a beginning course in robotics. We will be utilizing Lego Mindstorm kits, Robolab software and various Lego Robotics materials. The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of a LEGO Mindstorm robot. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be programmed to compete in various courses as developed by First Lego League.

Multimedia Design **Full Year Course**

Grades 8-12 - 1 High School elective credit

Students in MultiMedia Design are responsible for recording, producing, and editing the Chardon High School daily announcements. Students gain an understanding of video and audio editing software through practical, real-world experience. Additionally, students use hardware needed to perform video and audio recording, both in and out of the recording studio. Students gain a variety of hands-on experiences through a rotating schedule of jobs needed to produce a daily video broadcast, including in front of and behind the camera.

Game & Application Design

Grades 8 -12- .50 High School elective credit

What is Game and Application Design? It is a new class for students who enjoy a gaming challenge. A class that not only teaches students how to create well-designed apps, but an app that just might make a difference in the world. Students will learn the fundamentals of app creation with a global purpose and vision in mind. Applying real world skills, students will take on the role of a designer for a video game company and come up with an idea for a simple new video game. Students will work in teams to develop the theme of the game, its rules, and the look and feel of the game. Each team will design the user interface for the game and produce game art.

Passport to Language **One Semester**

Grades 8-9 - .50 High School elective credit

Join us as we delve into Spanish and French! We will be investigating culture and vocabulary in both languages. Follow us as we learn to communicate on an introductory level. We will

explore practical topics such as greetings, weather, time, and colors. Sign up today to begin your passport to the future.

Passport to World Cultures **One Semester**

Grades 8-9 - .50 High School elective credit

This is an exciting course for 8th grade students wanting to explore diverse cultures. What unites the people of Africa, Europe, Asia, the Americas, and the Pacific? We will research their values in education, food traditions, sports and leisure, fashion, and more while sharing creative products such as Instagrams, Fakebook pages, picture books, and videos. Come with us on this global semester adventure.

French I **Full Year Course**

Grades 8-9- 1 High School Credit

Recommended Prerequisite: Advanced English Language Arts 700

This course is an introduction to communicating in French by means of building basic vocabulary and developing the skills of listening, speaking, reading, and writing. The class includes an introduction to culture in the various countries where the languages are spoken. ***Strong*** memorization skills and an understanding of grammar concepts and usage is required in this course. Students who struggle in English classes may find foreign language very challenging and should consider Passport to Language.

Spanish I **Full Year Course**

Grades 8-9- 1 High School Credit

Recommended Prerequisite: Advanced English Language Arts 700

This course is an introduction to communicating in Spanish by means of building basic vocabulary and developing the skills of listening, speaking, reading, and writing. The class includes an introduction to culture in the various countries where the languages are spoken. ***Strong*** memorization skills and an understanding of grammar concepts and usage is required in this course. Students who struggle in English classes may find foreign language very challenging and should consider Passport to Language.

Chardon High School

BLUE MODEL Program of Studies
(Online)

PENDING LEGISLATIVE APPROVAL

Pending Legislative Approval, Chardon Local Schools is considering offering a 100% Virtual Learning Model. This learning model would focus solely on CORE CLASSES taught by our teachers. Electives may be available through alternate platforms.

Potential courses being considered.

English 8	Math 8	Science 8	Social Studies 8	Spanish I
English I CP	Algebra I	Physical Science	World History	Spanish II
English II CP	Geometry	Biology	US History	French I
English III CP	Algebra II	Chemistry	US Government	French II
English IV CP	Precalculus	Environmental Science		
	Senior Math			Health