PROGRAM OF STUDIES

<u>2021 – 2022</u>

Chelmsford High School



Principal's Message

In early February, you will begin the process of scheduling your course of study for the 2021-2022 school year. This process will culminate in June. The Program of Studies is published annually as a catalogue of courses offered at Chelmsford High School. It also contains detailed information and guidance to support you in choosing a course program that interests, challenges, and inspires you. Please take the time to read through the program of studies provided and consult with your teachers, your counselor, and your parents to make informed decisions as you progress toward meeting the graduation requirements of Chelmsford High School.

Chelmsford High School offers a wide variety of courses at a number of different academic levels to stimulate your curiosity, challenge your thinking, and promote your development as a 21st century learner. The course offerings that follow are designed and articulated to provide you with the depth and breadth of a comprehensive academic program while supporting your growth and progress toward our 21st Century Learning Expectations. Choose courses that carefully balance the rigor of a challenging academic course load with opportunities to broaden your horizons through our many extracurricular clubs, activities, and athletics.

In the Winter, students in grades 8, 9, 10, and 11 will be selecting courses for the 2021-2022 school year. Course offerings and staffing for the courses will be developed based upon student requests. Since the scheduling process only occurs once per year, it is critical for you to choose your classes and level of difficulty wisely. After this period of selecting classes, changes to student schedules cannot be made except in rare circumstances. Since the scheduling process occurs concurrently with the school budgeting process, please note that some of the courses in this program may be modified or may not be offered as a result of student requests and/or budgetary constraints. In situations like these, you will be able to enroll in classes required to meet graduation requirements. Choosing up to four (4) meaningful alternative courses will be an effective way to expedite this process.

We look forward to working together with you as you plan for your future at Chelmsford High School and beyond. The best part about being in a large school are the opportunities you have to explore a variety of different academic, co-curricular, and extracurricular offerings. I encourage you to take advantage of this opportunity, and choose an array of courses that challenges you academically, broadens your horizons, and stimulates your own curiosity, maturity, and growth.

Sincerely,

Superior

Stephen D. Murray CHS Principal

"We foster PRIDE in the pursuit of excellence."

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21st CENTURY LEARNING EXPECTATIONS: Academic, Social, and Civic

- 1. Demonstrate trans-literacy by communicating across a range of platforms, tools, and media.
- 2. Utilize real-world tools and other resources to access, evaluate, and share information in an authentic task.
- 3. Demonstrate information, flexibility, and adaptability in thinking patterns, work habits, and working/learning conditions.
- 4. Work independently and collaboratively to solve problems and accomplish goals.
- 5. Value and demonstrate personal responsibility, ethical behavior, and global awareness in both academic and social communities.

OVERVIEW OF COURSE SELECTION PROCESS

The processes of selecting courses and building students' schedules are complex and time-consuming. Please take the time to read through the course descriptions, and confer with your parents, teachers, and guidance counselor to choose courses carefully and request a course schedule that is appropriately challenging for you. Once student requests are compiled, course tallies are taken. Courses without sufficient enrollment are cancelled and a master schedule is built. Individual student schedules are then programmed and finalized. Students are notified of any scheduling issues and are given opportunities to amend their schedules and/or selections with their courselors. Courses needed to meet graduation requirements will be available.

The Program of Studies is a valuable resource for planning an appropriate educational program. Read through it the first time to get a general overview of the graduation requirements, course sequence, and overall expectations. Think about the courses in which you have an interest, and begin to read through these descriptions more closely to identify the ones you will elect for your next year of schooling. Talk to your parents about your interests and aspirations, and continue to narrow your selections. If you have questions or need more information, the most valuable sources of information will be your current teachers and your guidance counselors. Your current teachers have strong insight into the course curriculum, course expectations, and your current performance, while your counselor has a strong sense of graduation requirements and skills you will need to be successful as you plan for life after high school.

For any course that represents continued study within a department, the current teacher will confer with the student and then record the placement on the computer's Course Request File. When making a recommendation, the teacher will consider current and previous academic performance in the subject area and related subject area(s), current and previous performance on standardized tests (if applicable), performance on departmental placement tests (if necessary), and other classroom behaviors and habits that may be indicative of future success. This student-teacher conferencing will begin in January. Parents should speak directly to the teacher to answer questions about course or level placement. If the issue is still unresolved after conferring with the teacher, the parent may request an override. An override form can be obtained from the teacher, counselor or counseling office, and must be submitted to the Department Coordinator - for current 8th, 9th, 10th, and 11th graders the deadline is **February 12, 2021.** ***Please understand that a recommendation for an elective course does not equate enrollment in the course as some courses have class size and section number limits.

We strongly encourage students to maintain a reasonable balance among academic course load, extracurricular activities, and personal time to contribute to their social and emotional well-being. It is extremely important for students and parents to make informed decisions regarding which course and level are most appropriate for the student. Due to a variety of factors, the selection of a course should be considered a yearlong commitment. To maintain class sizes that are equitable for all students, it is very difficult to switch levels and/or courses once the schedule has been completed. As a result, there can be no guarantee that space will be available in another course or level during a preferred block.

Students will enter their elective course choices online using the X2 Aspen Student Portal. Information about this process will be distributed through PLUS Blocks prior to the beginning of the course selection process. Please review the grid provided below to help focus your choices for the next school year.

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	Students Entering	Students Entering	Students Entering	Students Entering	
	Grade 9	Grade 10	Grade 11**	Grade 12**	
Typical	English	English	English	English	
Courses or	Social Studies	Social Studies	Social Studies	Math	
Departments	Science	Science	Science	Health & Wellness	
where they may	Math	Math	Math		
be offered	World Language	World Language	Physical Education		
	Health & Wellness	Physical			
		Education			
Number of	1 full year course	1 full year course	2 full year course and 1	4 full year courses and a	
Electives/other	and 1 semester	and 1 semester	semester course or 5	semester course or 9	
courses you may	course or 3	course or 3	semester courses from	semester courses from	
add	semester courses	semester courses	any department	any department	
	from any	from any			
	department	department			

**Please note, students interested in pursuing post-secondary educational opportunities should consider enrolling in 3 years of a World Language. Students contemplating post-secondary opportunities in the sciences should consider completing a full year physics course in high school.

Students are encouraged to select their academic program carefully. We believe that decisions about courses can be made within a reasonable period of time to best capitalize on the educational process.

Our intention is to complete the scheduling process by early June so that any schedule conflicts can be resolved before the end of the school year. **Opportunities for schedule changes during the summer and fall are very limited.** Do not hesitate to call for further information. Contact information is provided on page 58

GRADUATION REQUIREMENTS

In compliance with the requirements set forth by the Commonwealth of Massachusetts and those affiliated with the recognition of Chelmsford Public Schools as a Federal Race to the Top school district, CHS will be shifting graduation requirements over the next few years to align with <u>MassCore</u>. In accordance with the change, <u>MassCore</u> provides a course of studies to better prepare students to meet the career/college readiness standards. Given the rigorous standards CHS already employs, the shift impacts students in mathematics and in the fine and performing arts. After review of the graduating class of 2013, we found 93% of our graduates met the new standards in math for <u>MassCore</u>, while 100% of our graduates met the new standards for the arts.

In addition to meeting the CHS course requirements below, all students in the Commonwealth are required to meet certain performance criteria on the Massachusetts Comprehensive Assessment System (MCAS). To receive a high school diploma, students must earn scaled scores of at least 240 on the grade 10 ELA and Mathematics tests, or earn a scaled score between 220 and 238 on these tests and fulfill the requirements of an Educational Proficiency Plan (EPP). Students must also earn a scaled score of at least 220 on one of the Science, Technology, Engineering MCAS (i.e., Biology, Chemistry, Introductory Physics, or Technology-Engineering).

Department/Academic Area	Classes of 2022, 2023,
	2024,2025
English	40 credits
Mathematics	40 credits
Science	30 credits
Social Studies	30 credits *
World Language	20 credits **
Fine & Performing Arts	10 credits
Practical Arts	5 credits
Physical Education	10 credits (Grades 10 & 11)
Health and Wellness	10 credits (Required Grade 9 & 12)
Other Courses/Electives	45 credits
Total Credits for Graduation	240 credits

* Requirements: World History 2, US History 1 & 2 or AP US History.

** Two years of the same World Language.

For a student to make successful progress toward graduation requirements and remain on par with her/his grade level, she/he must earn a minimum of 60 credits per school year. Seniors, in addition to meeting all other requirements, you must earn at least 60 credits in your senior year.

COURSE LEVELS

All of our courses are designed to prepare our students for the rigors of college and other post-secondary paths. Students will receive teacher recommendations regarding the course level in sequential subjects within departments. Although current grades are not the only indicator to be considered in placement decisions, your current performance in a course can serve as a reasonable indicator of future success. A student who has been earning grades in the B range or better should consider continuing in the same course level or advancing to the next level. A student who has been earning grades of D or an F may not be able to continue in the current level or sequence unless recommended or approved by the teacher. A student earning grades in the C range should consider continuing in the same course level or dropping a level. In each of these instances regarding level placement, it is recommended that students engage in a conversation with their teacher to determine the most appropriately challenging level for the student. The following course level descriptions are provided as a general guideline to students and parents to help determine the most appropriately challenging course level for students to participate. More detailed descriptions can be found within the specific course descriptions on the pages that follow.

All offered courses (except those considered not predictive of future academic achievement in college) are assigned a level according to the following criteria:

LEVEL AP <u>Advanced Placement Courses</u>

Advanced Placement (AP) courses are designed to move at a faster pace, cover a broader and potentially deeper curriculum than the Massachusetts Curriculum Frameworks articulates, and require significant independent work both inside and outside of the classroom. Successful students in these courses have a strong track record of high academic achievement as evidenced by academic grades in previous courses, standardized test scores, and motivation in the classroom. Students can typically grasp concepts from initial presentation. As a result, little class time will be spent practicing and/or reviewing concepts, but rather will be dedicated to extensive analysis, synthesis, and problem-solving. Students are expected to independently seek help and to organize and to budget their time for long-term assignments. The AP program is offered in the specific interest of three groups: secondary school students who wish to pursue college level studies while still in high school, schools that desire to offer these students the opportunity to do so, and colleges that wish to encourage and recognize such achievement.

AP Courses are offered in Art Portfolio, English, Calculus, Computer Science, Music Theory, Biology, Chemistry, Physics, US History, World History, American Government, Statistics, Psychology, French, and Spanish. In order to complete the AP curriculum and earn AP credits, a student must remain in the course for the full year. No partial credit will be awarded. Students are expected to take the AP Exam.

For more detailed information, follow the course description as described in the AP Course Description booklet - apcentral.collegeboard.com/highered

LEVEL 1 Honors 1 College Preparatory Courses (H)

These courses are more intensive than other courses experienced by the majority of our students. Classroom activities require a great deal of independent learning. Course content demands critical, creative, and analytical thinking. Courses will require that students demonstrate a comprehensive understanding of the structure of the discipline. Assignments of original design are required. These courses require: extensive reading, intensive application, analytical & creative thinking, and study to a greater depth of understanding.

LEVEL 2 College Preparatory Courses (CP)

Classroom activities are designed with a moderate amount of teacher assistance. While introducing new skills and concepts, students are extensively involved in interpretation, analytical, and creative thinking. Homework is both short-term and long-range and allows students to explore skills and concepts in more depth.

LEVEL 3 College Preparatory Courses 2 (CP 2)

Classroom activities are designed with a varying amount of teacher assistance. Through a variety of instructional strategies, learned skills and concepts are reinforced with increasing emphasis on interpretation, analysis, and other higher level thinking. Homework assignments are both short and long-term in duration and allow students to practice and explore skills and concepts in more depth.

POLICY FOR PROGRAM CHANGE CONSIDERATION

Allocation of staff, rooms, and the number of sections offered are determined by the number of student requests received for a specific course; therefore, students selecting full year courses are committed to remain in the course for the entire year. Also, students selecting semester courses are committed to remain in these courses for the semester scheduled. Please choose your course carefully. Your choices, both for first semester and second semester, represent a commitment on your part. Exceptions are permitted under certain circumstances.

A course change, even if approved, cannot always be granted. When the proposed course has been closed due to class size or a change would create a conflict in a student's schedule, the intended change cannot be granted. If a level change is granted, the student will take with them the grade they earned from the previous class.

All students are expected to stay in their assigned classes until at least the first midterm grade report, unless an obvious need for change exists. Obvious need might include:

- 1. A computer generated scheduling error
- 2. Having the same teacher in the past, with an unsuccessful academic experience the previous year
- 3. Incorrectly leveled students
- 4. Career path changes

There are two types of schedule changes that are processed during the school year:

- 1. Students can move from one level of a course to a different level of the same course. This is called a level change.
- 2. Students can add a course and drop a different course. This is called a course change.

The deadlines for making these changes are as follows:

- Level changes may occur at any time during the school year IF initiated or approved by a Department Coordinator.
- The add/drop period takes place during the first two full weeks of classes in September. After the add/drop period, schedule changes need to be processed using an add/drop form with approval from the Department Coordinator.

During the last two weeks of any marking period, no courses will be added or dropped. First semester and full-year courses dropped before the last two weeks of quarter one will be completely removed from the official transcript. Second semester courses dropped before the last two weeks of quarter three will be completely removed from the official transcript. All courses dropped after these periods will receive a W (withdrawal) as a final grade, and receive no credit for the course.

The following procedure for schedule changes will be strictly adhered to:

- 1. Students seeking a schedule change should see their guidance counselor and receive an "add/drop" form.
- 2. Students obtain the signature of the teacher and department head/coordinator of the course(s) to be *added* first.
- 3. Students then obtain the signature of the teacher and department head for the course(s) to be *dropped*, giving that teacher an opportunity to work out any problem area *befor*e the student leaves the class.
- 4. Students take the "add/drop" form home to be signed by a parent/guardian.
- 5. Schedule changes taking place more than one week after the first mid-term of the course require permission of the appropriate Department Coordinator. In this case, students take the "add/drop" form to the Dean to be signed, and for the schedule changes to be implemented assuming there is room in the class(es) to be added.
- 6. There will be a 24-hour minimum waiting period for all schedule changes, unless determined to be of an emergency nature by the Dean or Principal.
- 7. Students must attend classes as assigned until schedule changes are processed and new assignments are made. *Students violating this policy will not be allowed to change courses.*

This policy is set in place to assure students the opportunity to change for legitimate reasons and discourage whimsical requests. Exceptions to the above policy might be changes made to balance classes; changes made to correct programming errors; or changes made in the interest of good mental health.

Appeal of Denied Schedule Change

- 1. Students who wish to appeal a denied schedule change must request a meeting with their Dean, their guidance counselor, and any faculty member or department coordinator who has denied the change. Parents/guardians must attend this meeting.
- 2. A copy of the appeal form will be distributed to the student, his or her guidance counselor, and each affected teacher.
- 3. If the problem is not resolved at the Dean's level, students and their parent/guardian should request an appeal hearing with the Principal at which all interested parties will be present.

Senior Year Schedule Changes

If a senior student changes his or her schedule after applying to a post-secondary school or program, the student must inform the school or program of the schedule change. At the conclusion of the school year, a final official transcript will be sent to the school or program the student is planning on attending. If there has been a change and the student did not inform the school or program, the student's integrity may be questioned. This may result in a rescission of an acceptance, especially if the change involved the dropping of a core subject class.

POLICIES ON ANTI-DISCRIMINATION

CHAPTER 622

An important piece of legislation affecting the public schools was passed in August of 1971. This law, Chapter 622 of the General Laws, Acts of 1971, is referred to as "An Act to Prohibit Discrimination in the Public Schools." The law reads as follows: "No person shall be excluded from or discriminated against in admission to a public school of any town, or in obtaining the advantages, privileges and courses of study of such public school on account of race, color, sex, religion or national origin. This law makes it clear that all aspects of public school education must be fully open and available to members of both sexes and of minority groups. No school may exclude a child from any course, activity, service or resource available in that public school on account of race, color, sex, religion or natural origin of such child."

On June 24, 1975, the State Board of Education approved regulations for Chapter 622. These regulations address five areas of school policy: school admission to courses of study, guidance, course content, extra-curricular, and athletic activities.

REHABILITATION ACT OF 1973 - SECTION 504

It is the policy of the Chelmsford Public Schools to comply with the regulations of the Department of Health, Education, and Welfare in implementing Section 504 of the Rehabilitation Act of 1973 which provides that:

"No otherwise qualified handicapped individual.....shall, solely by reason of his handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." The act defines a person with a handicap as anyone who:

- 1. has a mental or physical impairment which substantially limits one or more major life activities (major life activities including activities such as caring for one's self, performing manual tasks, walking, seeing, hearing, speaking, breathing, learning, and working)
- 2. has a record of such an impairment; or
- 3. is regarded as having such an impairment.

The Chelmsford Public Schools recognizes a responsibility to avoid discrimination in policies and practices regarding its personnel and students. No discrimination against any person with a handicap will knowingly be permitted in any of the programs and practices in the school system.

The school district has specific responsibilities under the Act, which include the responsibility to identify, evaluate, and if the child is determined to be eligible under Section 504, to afford access to appropriate educational services.

If the parent(s) or guardian(s) disagrees with the determination of the professional staff of the school district, he/she has the right to a hearing with an impartial hearing officer.

Inquiries regarding compliance with Section 504 may be directed to: Director of Student Services, 978-25-5100 Chelmsford Public Schools Administrative Offices, 230 North Road, Chelmsford, MA 01824

NCAA Initial Eligibility Standards



Students who plan to participate in Division I or Division II college athletics must register with the NCAA Clearinghouse. Once all materials have been submitted, the Clearinghouse issues a preliminary certification report to the college. At the end of your junior year and after you graduate, the Clearinghouse reviews your transcript to make a final certification decision according to NCAA standards. Students must also complete the amateurism questionnaire through the Eligibility Center website.

You will find throughout the course catalogue courses that have the NCAA logo (as seen above) next to the course name; these courses are NCAA approved and count towards NCAA eligibility. To be certified by the Clearinghouse, students must complete a specific number of approved core classes, attain a minimum score on the SAT or ACT, and achieve a minimum GPA. To see specific NCAA eligibility requirements, visit these sites for more information:

<u>Division I Academic Requirements</u> <u>Division II Academic Requirements</u> Division III Academic Requirements – N/A

Innovation Pathways

Chelmsford High School is currently working with the Massachusetts Department of Elementary and Secondary Education to offer <u>"Innovation Pathways"</u> for all interested students in two areas: **Business & Finance and Information Technology.**

Innovation Pathways are open to all students starting in their freshman or sophomore years and are designed to provide coursework and experience in a specific high-demand industry. Working with the MassHire Greater Lowell Workforce Board and other organizations, teachers and industry partners will expose students to career options and help them develop knowledge and skills related to their chosen field of study before they graduate high school.

With both Innovation Pathways, there are no prerequisite performance measures for acceptance, and course structures allow for students in grades 9 & 10 to "enter" or "exit" the respective Innovation Pathway while still meeting graduation requirements. Students must complete two skills-based and two advanced courses for each pathway.

We encourage students and families to speak with administration and the guidance department for further information on the opportunities the Innovation Pathways can provide. Students interested in one of these pathways must also fill out an interest form, <u>which can be found here</u>. Please feel free to refer to our <u>Innovation Pathways Frequently Asked Questions Document</u>, which we will update periodically.



Dual Enrollment with Middlesex Community College (MCC)

In the Spring of 2018 Dual Enrollment with Middlesex Community College was introduced to CHS students in grades 10 and 11 for the upcoming school year. After course selection and collaboration with MCC CHS was able to offer 5 courses during the 2018-2019 SY that awarded students who performed to the MCC standard with college credit. For the upcoming 2020-2021 SY Juniors and Seniors will be offered more courses through the MCC/CHS Dual Enrollment Program. For the 2021-2022 SY, each 9th grade student will be enrolled in a 1 credit course, Career and College Exploration I, which aligns to MCC IDS 101. This gives students a preliminary foundation for subsequent dual enrollment and career focused courses. At this time here is the list of courses, <u>pending approval</u>, that hope to run. Also look for the MCC icon next to the course in the course descriptions below.

Grade 9: Career and College Exploration I (1 credit)

This Dual Enrollment 1 credit online course is for all freshmen and provides an opportunity to obtain 1 credit from Middlesex Community College during their PLUS Block, at no cost to the student. Students learn essential success skills, behaviors, and habits of mind in this course that they are then able to apply to increase their success in high school and beyond. With an emphasis on self-assessment and reflection, students will work to generate a personalized academic plan for their time at CHS and beyond. Students will also be introduced to MCC's Institutional Student Learning Outcomes (ISLOs), and engage with the high school and college's academic, student support and co-curricular services, along with other resources, to develop and strengthen those skills and abilities.

CORE Classes: A Senior Odyssey, Chemistry CP, US History II CP, Introduction to Statistics CP,

Electives: Programming I, AP PLTW Computer Science Principles, BioTechnology I, Forensic Science Psychology I, Sociology, Introduction to Criminal Justice, Intro to Digital Photography, Graphic Design I, Studio Art 3, Introduction to Acting, Improvisational Theatre, Accounting, Business & Career Pathways, Marketing, Management, Early Childhood Development III, Writing for College. For more information on the MCC Dual Enrollment Programming please visit: https://www.middlesex.mass.edu/dualenroll/about.aspx

The AP CAPSTONE PROGRAM

AP Capstone[™] is a College Board program that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. By using the "QUEST" Framework of Questioning, Understanding/Analyzing, Evaluating, Synthesizing, and Transmitting, this program cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

AP Capstone comprises two AP courses—AP Seminar and AP Research—and is designed to complement and enhance the discipline-specific study in other AP courses. Participating schools can use the AP Capstone program to provide unique research opportunities for current AP students, or to expand access to AP by encouraging students to master the argument-based writing skills that the AP Capstone program develops.

The program fosters the research, argumentation, and communication skills that are at the core of college readiness and essential for lifelong learning. It provides a setting to build on the knowledge and rigorous coursework of AP in an interdisciplinary format. Finally, the course offers students a unique opportunity to distinguish themselves to colleges and universities.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate. AP Seminar may also be taken as a stand-alone option.

Selections from the AP Capstone Overview: <u>https://advancesinap.collegeboard.org/ap-capstone</u>

AP SEMINAR 🟻 📟

10 Credits (#06113), Open to Grades 11 and 12

Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

Exploring different points of view and making connections across disciplines are fundamental components of the AP Seminar experience. Students will consider one topic or issue through a variety of lenses and from multiple perspectives, many of which are divergent or competing. Analyzing topics through multiple lenses aids in interdisciplinary understanding and helps students gain a rich appreciation for the complexity of important issues.

In addition to in-class assignments and assessments, students are assessed with two through-course performance tasks and one end-of-course exam. All three assessments are summative and will be used to calculate a final AP score (using the 1–5 scale) for AP Seminar.

Students who successfully complete AP Seminar are encouraged to enroll in the AP Research course in their senior year. Students who successfully earn a 3 or higher in both AP Seminar and Research and 4 other AP courses will earn the AP Capstone Diploma. This signifies their outstanding academic achievement and attainment of college-level academic and research skills.

AP Capstone Guide

AP RESEARCH 🔤

10 Credits (#32013), Open to Grade 12 students who have successfully completed AP Seminar

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

In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Although the topic of each research study will vary, the course requires students to plan and conduct a study or investigation. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or exhibition of product, where applicable) and a presentation with an oral defense.

Students who successfully earn a 3 or higher in both AP Seminar and Research and 4 other AP courses will earn the AP Capstone Diploma. This accomplishment signifies their outstanding academic achievement and attainment of college-level academic and research skills.

<u>AP Capstone Guide</u>

ENGLISH

- Freshman Year
- Sophomore Year
- Junior Year
- Senior Year
- English Electives

Students at Chelmsford High School are required to take a sequential four-year program in English that is designed to encourage each student to master a successive series of skills in reading, writing, speaking, and listening. In addition, the program provides students with a background in the major literature of their country and the world. In grades 9, 10, and 11, teachers will review each student's performance and make recommendations for the next school year's placement. To meet the individual needs and interests of students, a number of one-semester courses are offered in the sophomore, junior, and senior years which may be selected in addition to the required 10-credit semester course. Under ordinary circumstances, an elective course may not be taken as a make-up for a course that a student did not pass.

FRESHMAN YEAR

The freshman English program emphasizes skills in reading and writing through a balanced exposure to a variety of literature and writing experiences. Literature will be taught through a focus on the elements of structure within each genre (short story, novel, drama, poetry and non-fiction). While many mechanical skills are a review, advanced grammatical skills are introduced to enable the student to deal with the complexity of thinking, writing, and reading.

ENGLISH 9 - H, CP 9 10 Credits (#00513, #00523), Grade 9

All levels of this course (English 9H and English 9CP) will explore similar topics, but the depth and pace of instruction will be adjusted according to the students' abilities, backgrounds, and needs. All courses will help students master the knowledge and skills articulated in the Massachusetts State Frameworks for grades 9 and 10 in reading literature, reading informational text, writing and research, speaking and listening, grammar, and vocabulary. All students will further develop their reading, writing, and analytical skills. This course includes in-depth reading of major genres of literature with an emphasis on literary elements and universal themes. Students will begin to develop the skills necessary to write effective literary analysis. Students are expected to demonstrate their understanding of literature in class discussion and will complete vocabulary assignments. Mastering the skills assessed on the MCAS exam is one goal of the curriculum. A student who successfully completes this course will have a solid foundation in English Language Arts. (*Prerequisite: Teacher Recommendation required for English 9H*)

WRITING FOR HIGH SCHOOL - CP 📟

5 Credits (#07304)

Writing for High School is a course designed to provide extra support to freshmen who could benefit from additional instruction in writing. The core of the course consists of multiple types of essay writing experiences that are essential, not only to a student's ability to demonstrate knowledge and understanding in all academic disciplines, but also to effect personal change. The course will focus on content, form, mechanics, and sentence structure. A second and equally important aspect of the course is the continuing development of the student's ability to use the writing process, especially through writer reflection and peer response, as a means to strengthen his/her performance as a writer. The focus on writer reflection and peer response will help students to develop the skills they need to reach their writing goals. Preparation for the MCAS test is another important aspect of the course. Students will write answers to narrative and text-based essays similar to those on the MCAS exam and receive critical feedback to improve their test-taking skills. Note: Students are selected for this course. Students cannot sign up for this elective on their own. Please contact a guidance counselor or the Department Coordinator with any questions.

SOPHOMORE YEAR

The sophomore English program reviews skills in reading and in writing acquired in the freshman year and exposes students to various types of literature and writing assignments. In addition to a required 10-credit semester course, a sophomore may choose from the following one-semester 5 credit Practical Art electives:

- Journalism (Practical Art)
- Public Speaking (Practical Art)

ENGLISH 10 - H, CP 📟

10 Credits (#02013, #02023), Grade 10

All levels of this course (English 10H and English 10CP) will explore similar topics, but the depth and pace of instruction will be adjusted according to the students' abilities, backgrounds, and needs. All courses will help students master the knowledge and skills articulated in the Massachusetts State Frameworks for grades 9 and 10 in reading literature, reading informational text, writing and research, speaking and listening, grammar, and vocabulary. English 10 offers students a course that strengthens reading comprehension skills while developing literature analysis skills through whole-class discussion and cooperative learning. The reading includes various literary periods and genres including essays, poems, short stories, plays, and novels. The reading is analyzed, discussed, and used as the basis of some writing assignments. An additional

objective of the writing assignments is to develop the skills to organize, write, revise, and edit narrative and text-based essays similar to those on the MCAS exam and receive feedback. Students can expect regular work in vocabulary, reading, and writing.

(Prerequisite: Teacher Recommendation required for English 10H)

JUNIOR YEAR

The junior English program reinforces the skills in reading and writing acquired in the freshman and sophomore years by providing students with an overview of major American writers, movements, and literary works. In addition to a required 10 credit semester course, a junior may elect the following one-semester 5 credit electives and/or the 10 credit AP Seminar Elective:

- AP Seminar--Capstone Program (10 Practical Art credits)
- Angels, Demons, Heaven, Hell, and Last Things
- Creative Writing
- Fairy Tales, Folklores, and Legends
- Journalism (Practical Art)
- Public Speaking (Practical Art)

AP – ENGLISH LANGUAGE AND COMPOSITION 📟

10 Credits (#04013)

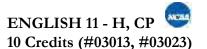
The purpose of this course is to help students become both skilled readers and confident writers. The course is organized around five units: an introductory unit, three thematic units, and a final course unit following the administration of the AP exam in May. While certain units have a thematic focus and contain seminal works of American Literature, the ultimate purpose behind each unit is to develop students' understanding of analytical strategies. Students are exposed to a variety of texts, including speeches, essays, articles, editorials, political or commentary-based cartoons, advertisements (both written and visual), passages from memoirs, plus selected poems and short fiction designed to mirror the rhetorical devices found throughout the readings of the course. By allowing students to read prose written in a variety of rhetorical contexts, they will be able to understand and employ the skills necessary to become writers who can compose for a variety of purposes (The College Board, *AP English Language and Composition Course Description*, 2010). Student writing features a series of steps, including initial drafts, self-edits, peer and teacher conferences, and final drafts. They will also study how authors take into account aspects such as audience and context. Students will learn how to arrange ideas, structure their arguments, select appropriate rhetorical devices, and master the language that will allow them to become more effective writers. *Prerequisite: Teacher Recommendation*)

The Seminar Approach

Students act as daily discussion leaders for assigned readings, first in small teams and later individually, and the instructor acts as facilitator. Students receive evaluations based on both their seminar presentations and interactions with other student presenters.

The Advanced Placement Program

The Advanced Placement Program is a collaborative effort among motivated students, dedicated teachers and committed high schools, colleges and universities that allows high school students to earn college credit or placement while still in high school. The corresponding exam for this course is the AP English Language and Composition Exam. Taking this exam is the expected outcome of taking this course; it is the culminating assessment. Additionally, students may take the AP English Language and Composition Exam without having taken the course. Although the specific college courses that AP credit will satisfy differ from college to college, each exam represents a year's college-level work (up to two semesters of credit). (*Condensed and summarized from: <u>http://apcentral.collegeboard.com</u>)*



All levels of this course (English 11H and English 11CP) will explore similar topics, but the depth and pace of instruction will be adjusted according to the students' abilities, backgrounds, and needs. All courses will help students master the knowledge and skills articulated in the Massachusetts State Frameworks for grades 11 and 12 in reading literature, reading informational text, writing and research, speaking and listening, grammar, and vocabulary. This course explores the range of American literature from the colonial period to the present in a variety of genres: novels, short stories, plays, poems, essays, and biographies. Students will have the opportunity to sample major authors' works and, with the help of small and large group discussion, will become better acquainted with the major themes in American literature. Class instruction will help students to progress from factual reading to an understanding of more complex symbols and concepts. They will continue to develop the writing skills necessary to write literary analysis essays. Preparation for the SAT exam is included. This course will include a personal essay unit, resulting in a product which could be used as a college application essay. (*Prerequisite: Teacher Recommendation required for English 11H*)

SENIOR YEAR

Students who have successfully completed the freshman, sophomore, and junior English requirements are eligible to fulfill their senior English requirement. Senior English continues to build on the reading and writing skills of previous years and broaden students' literary experiences in several areas. In addition to a required senior course, students may choose from the following one-semester 5-credit electives:

- Angels, Demons, Heaven, Hell, and Last Things
- Advanced Placement Research--Capstone Program (10 Practical Art Credits)
- Creative Writing
- Fairy Tales, Folklores, and Legends
- Journalism (Practical Art)
- Public Speaking (Practical Art)

AP ENGLISH 12 – LITERATURE AND COMPOSITION STION STICE (#05013)

The senior year Advanced Placement Program in English is quite demanding and is, by definition, equivalent to a freshman Honors English literature course in college. The course requires active reading and the perceptive examination of literature as well as the mastery of all elements of composition (structure), style, theme, and technique. Students participating in this program engage in intensive critical reading and analysis of works chosen for literary merit, complexity of thought, intricacy of structure and richness of style. Several critical and/or research-based essays focusing on literature are required; in addition, there will be exams on the units studied and in-class essays. The course is organized by genre, offering readings in fiction, poetry, and drama from around the world and from many different periods of literature (largely from the 16th century to the present). Students will strive to comprehend artistry and context (both social and historical) through several critical "lenses" and write to analyze and/or present arguments. The basic three-tiered progress of the examination of literature moves from experience to interpretation to evaluation. A seminar approach is used, but teacher-directed instruction will also take place from time to time. To prepare students for the AP Exam in English Literature and Composition, the teacher will administer an AP Exam previously given by the College Board in addition to several multiple choice and essay practice sessions provided to students over the course of the year. *(Prerequisite: Teacher Recommendation)*

The Seminar Approach

Students act as daily discussion leaders for assigned readings, first in small teams and later individually, and the instructor acts as facilitator. Students receive evaluations based on both their seminar presentations and interactions with other student presenters.

The Advanced Placement Program

The Advanced Placement Program is a collaborative effort among motivated students, dedicated teachers and committed high schools, colleges and universities that allows high school students to earn college credit or placement while still in high school. The corresponding exam for this course is the AP English Literature and Composition Exam. Taking this exam is the expected outcome of taking this course; it is the culminating assessment. Additionally, students may take the AP English Literature and Composition Exam without having taken the course. Although the specific college courses that AP credit will satisfy differ from college to college, each exam represents a year's college-level work (up to two semesters of credit). (*Condensed and summarized from: <u>http://apcentral.collegeboard.com</u>)*



A SENIOR ODYSSEY - CP 10 Credits (#06023)

This yearlong course is designed to expose students to a variety of literary themes and genres through the use of both classic and modern literature in order to provide them with a diverse learning experience. A wide range of topics and themes will be covered through genres including contemporary literature, world literature, film, graphic novels, theology, and philosophy. The core themes of this class will include, but are not limited to, ethical choices, the hero, self and society, identity, and the human response to conflict. Reading, writing, and speaking activities that relate to the works and themes studied will foster student skill development and critical thinking. Students will work individually, in pairs, in small groups, and in teacher conferences to continue their development of reading, writing, and analytical skills and to increase their understanding and appreciation of a wide variety of literature. This course may be taken for Dual Enrollment credit.

ELECTIVES

ANGELS, DEMONS, HEAVEN, HELL, AND LAST THINGS--CP 5 Credits (#06224), Open to Grades 11 and 12

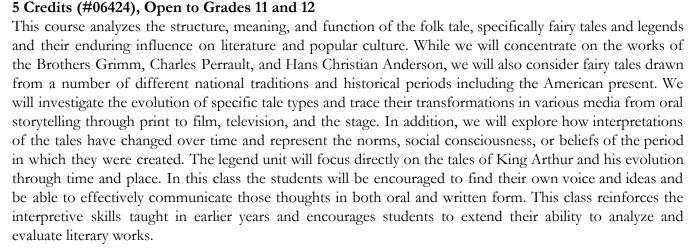
This interdisciplinary course will explore the great verbal and visual texts about "last things." Topics to be covered will include heaven, hell, purgatory, the soul, the supernatural, angels, demons, the afterlife, eternal punishment, justice, and judgment. We will examine biblical, historical, literary, artistic, and theological foundations of "last things" as well as how contemporary reconstructions and commentaries on these topics might speak to modern society. Students will examine images and stories of heaven, hell, and moral judgment from ancient Egypt to modern film. Texts, artwork, and topics may include Milton's *Paradise Lost;* Blake's *Marriage of Heaven and Hell;* Dante's *Divine Comedy* (Inferno, Purgatory, and Paradise); Hebrew and Christian biblical texts, especially the Apocalypse or Revelation; texts about heaven (Jannah), hell (Jahannam) and angels (jinn) from the Qu'ran; classical underworlds in Homer, Plato and Virgil; Michelangelo's and Bosch's paintings of last things; and the films *What Dreams May Come, The Five People You Meet in Heaven*, or *Ghost.* This course will honor multicultural worldviews and respect the contributions of multiple voices. Interfaith perspectives (Buddhist, Jewish, Christian, Muslim, Hindu, non-religious, etc.) will also be considered.

CREATIVE WRITING--CP 🕾



This semester course allows students to develop skills and techniques of creative expression in the genre of poetry, short fiction, and drama. While students are able to select their own themes and forms of expression, there are also class activities to strengthen such writing skills as selecting precise words, choosing sensory details, eliminating mechanical errors, and recognizing elements of style. Students are asked to establish deadlines for their progress, write daily, and be willing to share their work and ideas in small group discussions and teacher conferences. Students should enjoy writing and have a solid understanding of the writing process.

FAIRY TALES, FOLKLORE AND LEGENDS--CP





5 Credits (#07024), Open to Grades 10, 11, 12 (Practical Art)

JOURNALISM--CP

This course is a one-semester elective open to sophomores, juniors, and seniors. The purpose of this journalism course is two-fold. First, through learning the history of journalism and the role the media plays in society, students will be challenged to critically analyze the news media. The course will foster an environment where students can question bias and develop the ability to identify authentic and "good" (reliable) sources and information. With this information, students will also build upon the skills taught in their English courses to experience non-academic writing and writing for an audience outside of the high school community. Additionally, students will acquire the knowledge and skills to not only be published, but also to publish newspapers, understand the different story styles and requirements, execute layout and graphic design. Students will study local, metropolitan and national newspapers and magazines. They will examine the work of accomplished journalists and establish standards for their own writing. While the impact of radio, television and Internet on the news media. These units will investigate the writing behind these forms of communication and discuss the impact they have made on newspaper writing and media overall. This course may be taken for Dual Enrollment credit, pending approval.

PUBLIC SPEAKING--CP



5 Credits (#07704), Open to Grades 10, 11, 12 (Practical Art)

In this elective course, students learn the fundamentals of communication including interpersonal and group communication in addition to individual public speaking. Students are able to explore their own interests and speaking styles as they write and present speeches to the class; through rehearsal and viewing of their classmates' and their own speeches, they also gain insights as listeners. In their formal speeches, students explore the formats and nuances of verbal explanation, information, persuasion, and argumentation through debate. Participation is a vital component of the course as students work in groups, perform impromptu speeches, and critique speeches they observe. Skills developed will help students in future college and work settings.

WRITING FOR COLLEGE--CP 5 Credits (#07121), Open to Grade 12

To be successful in this class a student must be self-motivated and capable of working independently. Writing for College is a workshop in which students work to develop writing skills that will both help them with their college application process and enable them to be successful writers at the university level. During the semester, students prepare essays following the writing process from topic search to final draft. As they bring each essay to publishable form, students develop a number of skills that enable them not only to produce essays for their college admission packages, but also to meet the demands of writing in college classes. Professional and student-written models help students to define effective writing and set personal writing goals. The process of continual response and revision encourages students to work cooperatively with their peers and with their teacher to develop their personal writing strengths and to eradicate persistent problems, especially in the areas of clarity and correctness. In this class, students are expected to be active participants who contribute meaningfully to the peer response process, seek response to their work from their teacher and their peers, and, most importantly, are willing to revise, revise, revise. Students are required to attempt a number of different types of prose writing, drawing upon a variety of resources: observation, personal experience, interviews, and research. By the end of the course, students should regard and practice writing as a continuing process of drafting, feedback, and revision. Success in this class includes, but is not limited to, writing essays of personal experience, persuasion, description, definition, and social and cultural issues. This course may be taken for Dual Enrollment credit.

READING

READING FOR HIGH SCHOOL - CP

5 Credits (#08804)

Reading for High School is a course designed to provide extra support to freshmen who could benefit from additional instruction in reading and study skills. The core of the course consists of opportunities for students to improve comprehension of reading in the content areas and to understand the elements of a text book and text structure. Students will also learn and review reading strategies to promote comprehension in order to expand their study skills and improve online reading strategies. Preparation for the MCAS test is another important aspect of the course. Students will respond to fiction and non-fiction passages as well poetry similar to those on the MCAS exam and receive critical feedback to improve their test-taking skills. Note: Students are selected for this course. Students cannot sign up for this elective on their own. Please contact a guidance counselor or the Department Coordinator with any questions.

READING SKILLS AND STRATEGIES - CP

5 Credits (#08404), Grades 9 - 12

Reading Skills and Strategies is a course that explicitly teaches reading strategies that improve fluency and comprehension of fiction and non-fiction to struggling readers. Award winning novels and short reading selections are the focus of the curriculum. The course will focus instruction on effective strategies such as identifying text structure and reading strategies that improve fluency and comprehension of fiction and non-fiction. Reading Skills and Strategies is intended for students who have previously taken Reading for High School, or who struggle with comprehension. Students who have not yet met proficiency levels on the MCAS are also recommended.

SOCIAL SCIENCES

The Social Sciences program at Chelmsford High School is designed to assist students in becoming informed citizens, fully aware of the need for ensuring the dignity and worth of the individual, personally involved in improving the society they have inherited, and capable of recognizing the interdependence of all peoples. The goals of the program are developed through a variety of semester-length and full-year courses. The content of these courses draws upon the various social science disciplines. These courses develop skills necessary in gathering, analyzing and evaluating information. A student should attempt to construct a balanced program from the Social Science offerings over the four years at Chelmsford High School. In addition to satisfying graduation requirements, a student will want to select courses from the various social science electives. Thirty credits of Social Science are required for graduation from Chelmsford High School.

MODERN WORLD HISTORY H, CP 10 Credits (#32413, #32423), Grade 9

This course surveys world geography, history, and related studies from the age of Imperialism to the present. Students will focus on a thorough review of the social, economic, religious, scientific and technological factors that have shaped world history since the 1800s. Instruction includes the use of text, secondary and primary source materials designed to develop inquiry, interpretation, and critical thinking as well as a variety of print and electronic instructional materials. This course requires analytical reading and writing. Additional writing and a summer reading assignment are required in the Honors level course.

UNITED STATES HISTORY I H, CP 10 Credits (#32513, #32523), Grade 10

In United States History 1, Students examine the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras. Students review the basic framework of our Democratic Republic in order to develop a deeper understanding and appreciation of civics and civic responsibilities.



Additionally, students will investigate the cause and consequences of persistent social, economic and political changes that happened between the establishment of the Early Republic through World War I. Students will utilize a variety of resources including, primary sources and secondary sources, images, videos, maps, and data to critically consider events of the past. Students will develop the skills to respond to enduring questions and challenges in the "American Experiment". This course requires analytical reading and writing. Students in the Honors course will briefly review the eras of exploration and colonization before exploring the topics through to the Reconstruction Period. Additional writing and a summer reading assignment are required in the Honors level course.

None

AP UNITED STATES HISTORY

10 Credits (#33013), Grade 11

The Advanced Placement course in American history is a course that will provide students in their junior year with the analytic skills and facts necessary to deal critically with problems and materials in American history. Students will be prepared for intermediate and advanced college courses by the demands of the advanced placement course, which are equivalent to those of full-year introductory college courses. Students will learn to assess historical materials--their relevance to a given interpretive problem, their reliability and their importance--and to weigh the evidence and interpretations presented in historical scholarship. All students will participate in an action civics project designed to offer practice and build skills in citizenship.

UNITED STATES HISTORY II - CP 📟

10 Credits (#33523), Grade 11

In United States History II, students investigate and analyze the dynamic history of the United States from the 1920s to modern day. Students will utilize a variety of resources including primary and secondary sources, images, videos, maps, and data to critically consider events of the past. Students will continue to develop the skills to respond to enduring questions and challenges in the "American Experiment". This course requires critical thinking, analytical reading and writing. All students will participate in an action civics project designed to offer practice and build skills in citizenship. *Students must have successfully completed US History I.*

SOCIAL SCIENCE ELECTIVES

AP AMERICAN GOVERNMENT AND POLITICS 🔊

10 Credits (#38113), Grade 11 + 12

This Advanced Placement course in American Government and Politics is designed to give students a critical perspective on government and politics in the United States of America. It involves the study of general concepts used to interpret American politics and the analysis of specific case studies. It requires familiarity with various institutions, groups, beliefs and ideas that make up the American political reality.





Students will be prepared for intermediate and advanced college courses by making demands upon them equivalent to those of full year introductory college courses. Students will be prepared to take the Advanced Placement Exam in American Government and Politics.

AMERICAN HISTORY THROUGH FILM CP

5 Credits (#39124), Grade 12

This H2 course is for seniors interested in the portrayal of events of American History on the big screen. This course will examine Hollywood feature films and historical dramas <u>as historical evidence</u>. During the course, students will view movies on a span of events from the inception of the United States to present day. The Standards from the Massachusetts State Curriculum Frameworks and the Common Core Standards are an integral component of this course. Students are expected to utilize research, comparative analysis, and critical thinking skills as they determine the value of each film to the American understanding of past events. The continued development of discussion, debate and writing skills will be a central part of the course. Students will research historical events in the United States using primary and secondary sources to have a better understanding of the events they see portrayed in the films. Students will utilize and write film reviews and critical commentaries related to the films. Students will be expected to produce comparative essays in which they identify the specific events and consequences of those events with the stories and myths presented in the films.

CIVICS CP (*Practical Art*)

5 Credits (#38724), Grade 11 + 12



An educated citizenry is essential. This course is designed to help students enhance their civic knowledge and skills.. The course takes students beyond the foundational study of government structures and history and focuses on the roles and responsibilities of citizenship at the local community, state, and national levels. Students will learn how each level works in order to "promote the general welfare" and what that means with regards to legal, social and economic policy. The Town of Chelmsford and its governance will be a significant focus of our studies. Students will explore the various, often competing perspectives regarding major policy issues facing our citizens today, and how to analyze, deliberate, and discuss the issues and the arguments from those different viewpoints. We will consider the role that a "free press", media and social media play in our political past, present and future. Emphasis will be placed on a classroom community in which dialogue and respectful debate occur in order to enhance a student's capacity to communicate, as both an active speaker and listener. Students will participate in a dynamic classroom environment that encourages civil discourse, collaboration, inquiry, experiential learning (visits to the Town Hall and State House) and connects them with elected officials and community representatives.

COMMON LAW AND TRIAL PROCEDURES I-H

10 Credits (#39313), Grade 11 + 12

Common Law and Trial Procedures will provide students the opportunity to learn about the fundamentals of the American judicial system and how it can impact their lives in ways they might not otherwise imagine. The course will further students' understanding of the law, court procedures, civil liberties and the American legal system. It will also increase proficiency in basic life skills, such as listening, public speaking, rote memorization, reading, and analytical reasoning. Students are required to think independently and develop their advocacy skills regardless of which side of an issue is being presented. Most importantly, the course will promote better communication and cooperation between the student, Chelmsford High School, and the legal profession. <u>Students who take Common Law & Trial Procedures will be required to participate in the Massachusetts Bar Association's Mock Trial program.</u> This unique experience will heighten the student's consciousness of law-related professions and the academic studies which lead to those professions. Many schools in the state participate in this competition-based program, including well-known educational facilities from the private sector.

*There is an application process to be considered for enrollment in this course. Please see the Social Studies Department Coordinator or Mr. Cole for the application and information, including deadlines.

COMMON LAW AND TRIAL PROCEDURES II - H

10 Credits (#39413), Grade 12

The course will provide students the opportunity to expand their knowledge about the fundamentals of the American judicial system and how it can impact their lives in ways they might not otherwise imagine. The course will further students' understanding of the law, court procedures, civil liberties and the American legal system. It will also increase proficiency in basic life skills, such as listening, public speaking, rote memorization, reading, and analytical reasoning. Summer reading is required in this course. Students are required to think independently and develop their advocacy skills regardless of which side of an issue is being presented. Most importantly, the course will promote better communication and cooperation between the student, Chelmsford High School, and the legal profession. Students who take Common Law and Trial Procedures II will be required to participate in the Massachusetts Bar Association's Mock Trial program. This unique experience will heighten the student's consciousness of law-related professions and the academic studies, which lead to those professions. Many schools in the state participate in this competition-based program, including well-known educational facilities from the private sector. *Common Law and Trial Procedures II is available to seniors who have taken CLTP I during their junior year. There is an application process to be considered for enrollment in this course. Please see the Social Studies Department Coordinator or Mr. Cole for the application and information, including deadlines.*

THE HOLOCAUST AND GENOCIDE STUDIES: A STUDY IN HUMAN BEHAVIOR 5 Credits (#38424), Grade 11 + 12 CP

This course, open to Juniors and Seniors, will provide students with an opportunity to more deeply investigate events in Germany before, during, and after World War II related to the attempted extermination of the Jewish peoples and other ethnic and political minority groups in Europe. Appropriate print materials, films, and guest speakers will be used to help the students understand the cause, nature, and enduring consequences of the Holocaust. A sociological approach will allow students to see how individuals and small groups are influenced by man's inhumanity to man. Through a case study exploration of historical and modern genocides, students will learn to recognize the actions (subtle and overt) of individuals and institutions that seek to perpetuate racism and hate. Students will utilize dialogue and critical analysis to develop potential strategies for minimizing factors that contribute to the persistence of racism and genocide.

INTERNATIONAL RELATIONS—H



10 Credits (#38813), Grade 12

This Honors level course is for seniors interested in the United States and its role in international affairs. Students will attain a global perspective and understanding of international issues including the rise of nations, colonialism, and government practices. Students will examine world events such as environmental concerns, coups, treaties, peace accords, genocides, natural disasters, failed states, terrorism, zones of chaos, and resource wars. Through lively dialogue and debate, students will analyze and attempt to resolve conflicts and determine the role of the United States in global affairs. Students appropriate for this course should enjoy group discussions, independent research, and the complexity of international issues.

INTRODUCTION TO CRIMINAL JUSTICE CP



5 Credits (#36224), Grade 10, 11, 12

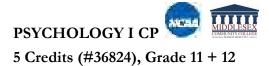
Introduction to Criminal Justice is a one semester course where students will study the legal, judicial, and correctional systems of the United States. The class will focus on the foundation of the U.S. Constitution, fundamental legal principles, court procedures, civil and criminal laws, and the laws which impact our daily lives. The goal of the course is to provide students with practical and problem-solving skills that will develop in the students understanding of key legal concepts and their ability to be civic and legal minded citizens in a law-saturated society. The course will implement the use of case studies, mock trials, guest speakers, small-group exercises, and hands-on activities.

ADVANCED PLACEMENT PSYCHOLOGY



10 Credits (#37013), Grade 12

This college level course is designed to introduce students to the biological and theoretical foundations of Psychology. The course will cover material ranging from the historical roots of this social science, the methods of research as well as the anatomical structure and function of the brain and sense organs. Emphasis will be placed on investigative research, analysis, interpretation, and writing skills. Students will explore the concepts that today's psychologists are continuing to research. Students will be expected to take on the demands of a college level course, including additional reading assignments during the summer and throughout the school year. Students are required to purchase a copy of Lauren Slater's "Opening Skinner's Box" and read the book prior to the first class meeting of the school year. Test taking and writing skills will be addressed throughout the course to prepare students for the Advanced Placement Psychology Exam in May.



This course for juniors and seniors is designed to introduce students to the biological and theoretical foundations of psychology. The course will encourage students to develop analytical skills, conduct research, investigate the mind-body connection, analyze the concepts of consciousness, evaluate the theories of personality, develop an understanding of psychological disorders, evaluate the role and effectiveness of treatments, and analyze the theories of intelligence. Students will be expected to demonstrate their understanding of psychology through various projects, discussions, and assignments.

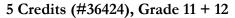


PSYCHOLOGY II CP

5 Credits (#36922), Grade 11 + 12

This semester 2 course allows students who have successfully completed Psychology I to expand their knowledge in this discipline. Students will more deeply investigate such topics as, sensation and perception, motivation and emotion, learning, human development, and personality. This course provides an in depth study of current psychological issues. Emphasis is placed on research, analysis, interpretation, and writing skills. Students planning to major in the social sciences in college should consider taking this course. *This course is open to students who have completed Psychology I*.

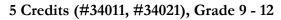
SOCIOLOGY CP 📟



Sociology is strongly recommended for college-bound juniors and seniors. It is designed to aid students in understanding today's dynamic and rapidly changing world. This course has been developed to show the complexity of social life with its interconnections between social events and conditions. It includes a study of major social institutions, socialization, social stratification and the relationship of the personality problems of youth to these social forces. Through a series of experiments and research projects, students explore some examples of the sorts of problems sociologists study utilizing the methods of sociologists.

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SPEECH AND DEBATE – H, CP (*Practical Art*)



Semester I. This course is open to freshman through seniors and is designed to introduce students to Speech and Debate. The course is ideal for those students who want to learn how to speak effectively and develop strong analytical skills. Skills developed in these events transfer into business, theater, law and government, and teaching. The class begins with an exploration of the common elements of both Speech and Debate. Every student starts in Debate, but after the first tournament students can opt to remain focused on Debate or choose from a variety of Speech events. Students select their events and prepare for their events with the guidance of the teacher. Students will engage in research, writing, preparing, editing and revising debate cases or their speech piece. Time will be given to students to practice for their presentations, where they will receive feedback and direction to improve upon the debate case or speech piece prior to tournaments. There are no textbooks, no tests, no quizzes. Students are **required** to compete in at least two Saturday Massachusetts Speech and Debate League tournaments (Think dressed up field trip!). Course grades are based on student preparation, effort, completion and participation. If a student wants Honors credit, they must compete in a third tournament within the semester, in any event of their choosing.

STEM

STEM curriculum involves 4 specific disciplines — Science, Technology, Engineering and Mathematics applied using interdisciplinary methods to solve problems. Creativity and innovation combined with basic knowledge acquired in these courses prepares students for post secondary opportunities in STEM careers. CHS offers rigorous courses in all 4 years and students are encouraged to plan a pathway beginning in 9th grade to maximize opportunities to master a concentration of academic knowledge and technical skills.

SCIENCE

The Science Department offers coursework at three academic levels. Specific placement information is listed for each course below. All AP courses are designed, audited and aligned with <u>College Board</u> and may require summer work. Level 1 Honors courses are by teacher recommendation only. The recommendation is based upon performance across Science and Mathematics as the courses are designed to fit the rigor of enrolling in a subsequent AP or college level science course. Students must complete 30 credits of lab-based science courses in order to graduate, and all courses meeting the Lab-based criteria are listed with the course description. College preparatory courses are available to all students.

ENVIRONMENTAL SCIENCE CP

10 Credits (# 26223), Grade 9, Lab - Based

This activity-based course provides a foundation for the future study of Earth Science, Biology, Chemistry, and Physics through hands-on learning experiences geared towards the understanding and application of Environmental topics. Students will understand and apply the 8 core Science Practices into a variety of community-focused projects through the demonstration of hands-on experiments and effective use of technology.

Prerequisite: Completion of Grade 8 Science

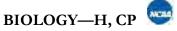


10 Credits (#22013), Grades 10, 11, 12, Lab-based

This second year Biology course will consist initially of a review and enrichment of the major concepts from first year Biology. This will be followed by a fast-paced, intensive study of selected topics in Biology as set forth by the College Board. Included among these are, but not limited to: plant and animal growth and development; embryology; cellular physiology; genetics; animal structure; biological systems and relationships. The course emphasizes the unifying themes in biology, showing the connections between the different areas of study. AP Biology is designed for highly motivated science students who intend to pursue a science related major in college. Students in this course should be prepared for some independent learning due to the volume of material covered. In addition to in-class discussions, laboratory experimentation, and independent learning, students will have an opportunity for peer share learning. The course will also emphasize techniques in preparation for the AP Biology exam in May.

Students will be required to complete summer homework prior to the beginning of the academic year. Homework Requirements: Students are expected to read chapter material prior to in-class discussions. Nightly homework will average 1 to 2 hours.

Prerequisite: Success in Honors Biology, and concurrent enrollment or credit in an Honors Chemistry Course



10 Credits (#22413, #22423), Grade 9,10, Lab-based

This first year Honors Biology course is designed to prepare students for the next generation of science standards and practices. The high school biology content standards build from middle school and allow grade 9 or 10 students to explain additional and more complex phenomena related to genetics, evolution, the functioning of organisms, and interrelationships between organisms, populations, and the environment. There is significantly higher academic expectations of students in honors level courses. Students are required to complete daily homework assignments and are expected to be more independent and highly motivated. Frequent laboratory exercises, designed to correlate with text materials, provide students with opportunities to learn and use techniques and equipment associated with biological research. Independent reading, research and writing assignments extend learning beyond the classroom. Students are expected to take the MCAS Biology assessment in the spring.

Prerequisite for Honors: Recommendation of Physical Science teacher; incoming freshmen must have teacher recommendation, Term average of 93 or higher in 8th grade science, Benchmark average in the Exceeding Range, and one of the following: placement into Honors Math or received an advanced score on the grade 7 ELA MCAS Exam.

ANATOMY AND PHYSIOLOGY—H



This biology elective is an academically rigorous course that is designed to provide a background for those students anticipating study in medical or health fields in the future, or for students with an interest in how the human body functions. Topics include: anatomical terminology, histology, and an examination of the structure, function and disease of body systems. The text is written at a college reading level and many college level lab activities are conducted. The lab activities require motivated and independent students. All students are required to be active participants in a cat dissection for this course. Students will learn how to use a stethoscope, blood pressure cuff, spirometer, and other equipment in the lab. Homework will average around one hour per night.

Prerequisite: Successful completion of Honors Biology, advanced performance in H2 Biology recommended

AP CHEMISTRY

10 Credits (#24013), Grades 11 + 12, Lab-based

After a review and enrichment of major concepts from first year chemistry, this second year Chemistry course provides an intensive study of selected topics in chemistry. Included among these are: nuclear chemistry and organic chemistry; reaction kinetics, acid/base equilibrium; thermodynamics; and electrochemistry. The student must be self-motivated and industrious. There are extensive homework assignments and frequent laboratory reports to write that will require 1-2 hours of work each day. Much of class time will be spent in the lab with time allotted for answering questions. This is a full year course. Students will be required to complete chemistry work over the summer prior to the beginning of the school year.

Prerequisite: Successful performance in Honors Chemistry

CHEMISTRY—H, CP (CP only) 10 Credits (#24213, #24223), Grades 10 + 11, Lab-based

The major focus of chemistry is on matter and its interactions. Quantitative and qualitative methods can be used to explain how matter interacts. Fundamental basics of matter are determined by the structure of atoms and the compounds they compose. Reactivity and properties of compounds are explored through a variety of inquiry-based laboratory activities. Topics covered include: atomic theory, stoichiometry, gas laws, bonding, solutions, and thermodynamics. Honors Chemistry is a full year course created for students who have demonstrated a sincere interest in the sciences with students independently using algebra skills in the context of the chemistry curriculum. Honors students should expect to have 1-2 hours of independent work per night. Chemistry CP provides a foundational understanding of chemistry and may be taken as a Dual Enrollment course with Middlesex Community College as a general science credit (CHE 121).

Prerequisite for Honors: Successful performance in Honors Biology, successful performance in an Honors level Algebra-based Mathematics course or advanced performance in CP algebra-based mathematics course, teacher recommendation.



10 Credits (#25213), Grade 11 + 12, Lab-based

This is an in-depth, mathematically rigorous, course in physics that is equivalent to the depth, time, and rigor to a first semester college course in algebra-based Physics. The course is designed to prepare students for future study in the core science areas (biology, chemistry or physics), mathematics or other professional fields such as pre-med, pre-dental, veterinary study or engineering. It is also designed for all science majors and other students wishing to demonstrate their ability to meet the challenge of an advanced placement course. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. Projects, technical writing and lab work play an important role in this course. Homework will be approximately one hour per night and will average 4 days per week.

Prerequisite: Successful completion of Honors Physics or current Science teacher recommendation, advanced performance in Algebra II H. Summer work will be required and assessed for all students. Separate additional summer work will be required and assessed for any student who has not completed a high school Physics course.

AP Physics C 📟

10 credits (#25013), Grade 12, Lab Based, Dual Enrollment

This course is for students strongly considering a degree in engineering, physics, or chemistry at the post-secondary level. Students must have completed or are enrolled in AP or Honors Calculus concurrently in order to take this course. Students must also have completed a physics course prior to enrollment. This course offers a conceptual and rigorous mathematical approach to physics, and an advanced understanding of high school math is assumed. Differential and integral calculus are applied to topics outlined by College Board for the AP Physics C: Mechanics exam. Topics included are 1- and 2-dimensional motion, forces, work, energy, power, momentum, circular motion, gravitation, rotational motion, and simple harmonic motion. Students performance will be based upon several performance tasks such as investigation reports, homework assignments, tests, quizzes, mid-year and final examinations. Participating colleges may grant credit and / or appropriate placement to those students who qualify based on the AP Exam.

Prerequisite: Successful completion of Honors Physics or AP Physics 1, placement into or completion of AP Calculus AB or BC

PHYSICS - H, CP (CP Only) 10 Credits (#25113, #25223), Grade 11 + 12, Lab-based

High School Physics standards expect students to apply a variety of science and engineering practices to three core ideas of physics:

- 1. Motion and Stability: helps students answer the question, "How can one explain and predict interactions between objects and within systems of objects?" Students are able to demonstrate their understanding by applying scientific and engineering ideas related to Newton's second law, total momentum, conservation, system analysis, and gravitational and electrostatic forces.
- 2. Energy: develops students' understanding of energy at both the macroscopic and atomic scales, and helps students answer the question, "How is energy transferred and conserved?"
- 3. Waves and their Applications: technologies for information transfer support students' understanding of the physical principles used in a wide variety of existing and emerging technologies, which helps students answer the question, "How are waves used to transfer energy and send and store information?"

Lab investigations, demonstrations, and collaborative activities are designed and structured for each level offered within the curriculum.

Prerequisite for Honors: Successful performance in-previous Honors level Science course, or advanced performance in previous H2 level science course, and successful performance in Algebra II H.

ENVIRONMENTAL STUDIES - CP 📟

10 Credits (#26123), Grade 11 + 12, Lab-based

This is a full year lab based elective course designed for students who intend to go to college as non-science majors, and replaces last year's Environmental Science course. The course focuses on local, national and world sustainability of resources, such as conservation of material cycling, human and environmental influences, succession, and environmental problems. Students will demonstrate mastery of the concepts by addressing authentic issues that affect the world today through completion of a variety of group and individual projects, presentations, and other collaborative exercises.

Prerequisite: Successful completion of Biology or Chemistry

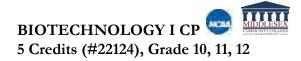
AP ENVIRONMENTAL SCIENCE

10 Credits (#26013), Grade 12, Lab-based

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Coursework is designed to prepare students for the AP Environmental Science Exam in May. Students in this course should be prepared for some independent learning due to the volume of material covered.

Homework Requirements: Students are expected to read chapter material prior to in-class discussions, complete study guides, practice exams, and complete lab reports. Nightly homework can average 1 to 2 hours. **Summer homework will be required;** see the instructor for resources before the end of the school year.

Prerequisite: Advanced performance in CP or H Biology & CP or H Chemistry; Algebra proficiency, including scientific notation and dimensional analysis



This second year Biology elective provides students with basic biotechnology laboratory skills in order to introduce them to biotechnology concepts, in addition to the business aspect of the industry. "hands-on" laboratory course, it focuses on widely used biotechnological techniques and theoretical application in biotech industry standards including biological molecule manipulation, transformation and identification. Students will learn techniques that apply to biological drug applications, bioinformatics, and Good Lab Practices (GLP), such as sterile technique and maintaining a lab notebook. Prerequisite: Successful completion of a Biology course.

BIOTECHNOLOGY II - H 5 Credits (#22114), Grade 11 + 12



Biotechnology II is an intensive course focusing on topics necessary for the understanding of the biotechnology industry and multidisciplinary skills required for careers in research. Topics will include plasmid design, protein expression, purification, storage conditions, and validation. Focus will be on knowledge of protein peptide formulation, and storage stability. Validation issues will deal with practical application of validation principles for the biotechnology industry, drug approval process, validation monitoring and regulations. In protein purification, the students will learn about or utilize techniques used in purification; different procedures in chromatography; affinity ion exchange, absorption, and reduced vs. non-reduced SDSPAGE. Students will also gain theoretical knowledge of HPLC, fluorescence, and Mass Spectrometry. Course material will be taken directly from the current, primary literature with emphasis on conduction laboratory research, student presentations, and discussion.

Prerequisites: Successful completion of Biology course, successful completion of Biotechnology I or AP Biology, concurrent enrollment and good standing in Chemistry, or successful completion of Chemistry

FORENSIC SCIENCE CP

5 Credits (#24324), Grades 10-12

Course Description: Students will explore forensic skills by integrating criminal investigative techniques with hands-on experience in the scientific procedures now used in the modern crime laboratory. Students will learn evidence collection, chemical and physical analysis of the evidence and crime scene, and focus on how modern techniques affect investigations. Students will also focus on how to present results in investigative reports both written and oral.

Prerequisite: Successful completion of Biology

INTRODUCTION TO ORGANIC CHEMISTRY CP

5 Credits (#24424), Grades 11-12

Course Description: Organic chemistry is a second year chemistry course that provides an introduction to carbon-containing compounds. The course is focused on the chemical structure of hydrocarbons and their derivatives. The course will cover organic nomenclature, mechanisms, stereochemistry, IR Spectroscopy, Mass Spectroscopy and NMR analysis. The continued development of laboratory skills - including small molecule synthesis and analysis - and the multiple ways to report results will also be a major focus of the course.

Prerequisite: Successful completion of Chemistry

TECHNOLOGY

CHS technology courses develop students STEM concepts in Computer Programming, Robotics and Technology (IT). These in-demand careers require specific technology skill sets and these courses give students a solid foundation while developing student enthusiasm for those fields. Students in these courses have access to environments such as the CHS Tv studio, state of the art engineering software and hardware or computer science coding simulations and a knowledge base rich in technical expertise. Each of these courses is considered a practical art credit under CHS graduation requirements.



PROGRAMMING 1 – CP 10 Credits (#17723), Grades 10, 11, + 12

Programming 1 is a Dual Enrollment 4 credit lab course with Middlesex Community College. This course is a project based course designed to provide students with an introduction to the processing of information by the computer, computer logic, memory, input/output processing, and programming in the C/C++ language. This course emphasizes the programming problem-solving process, problem organization, algorithms, coding, debugging and the elements of good programming style. Programming problems will include a wide variety of numeric and non-numeric applications. No prior programming experience necessary. This course is considered a practical art. Prerequisite: Algebra 1

PLTW AP COMPUTER SCIENCE PRINCIPLES 10 Credits (#17613) Open to Grades 10, 11, + 12



The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data as well as working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computer apps based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems as well as discuss and write about the impacts these solutions could have on their community, society, and the world. Prerequisites: Algebra 1

Note: Visit College Board Advanced Placement online to see a complete list of topic

AP COMPUTER SCIENCE A

10 Credits (#17513), Grade 11 + 12

This course prepares students for the AP Computer Science A exam by emphasizing object-oriented programming methodology through problem solving and algorithm development and is meant to be the equivalent of a first-semester course in computer science. It also includes the study of data structures and abstraction. The course will cover Object-Oriented Program Design, Program Implementation, Program Analysis, Standard Data Structures, Standard Algorithms, and Computing in Context. This course is considered a practical art. Prerequisite: Completion of Programming 1, teacher recommendation and summer work

Note: Visit College Board Advanced Placement online to see a complete list of topic

ROBOTICS – CP

5 Credits (#69824), Grade 9 - 12

Robotics is a one semester course that focuses on creative problem solving and machine behaviors. The robots are built with VEX V5 Clawbots and can be programmed in blocks, Python or C++. Each class will be presented with the similar components and programming exercises, but the challenges that students will solve will vary from term to term. This Robotics course ties in with the after school Robotics Club and all course students can participate in the competitions if they wish. The general types of exercises will include: following a wall or a line, knocking things over, picking up and moving objects. The challenges will be inspired by real world problems that robots face—search and rescue, moving of hazardous waste, warehouse management, etc. This course may be used for Practical Arts credit. *Prerequisite: None*

COMMUNICATION/MEDIA1-CP

5 Credits (#81004) Open to Grades 9-12

Communication/Media 1 is project based and includes direct instruction as well as experience in producing and TV broadcasting. This course ties into the CHSTv Club, a student driven group that that showcases all the great events that are part of CHS The topics include:

- Overview of Mass Media (Radio, TV, Internet)
- News Media
- Pod Casting
- Impact and Effect of Advertising on Media
- Ownerships of Various Media
- Public Service Announcements
- Introduction to Multi-camera Production
- Visual Effects from the Fine Arts Angle
- Script writing
- Subject Lighting
- Conducting and Taping Interviews
- Journalism

Prerequisites: None

TV & BROADCASTING - CP 5 Credits (#81204) Open to Grades 9-12

This course provides students the knowledge and skills to produce television broadcast programs. Typically, students prepare and produce short programs, learning the technical aspects of the operation and how to evaluate programming and assess audience reaction and impact. This course ties into the CHSTv Club, a student driven group that showcases all the great events that are part of CHS.

Prerequisites: #81004 Communication/Media 1

TECHNOLOGY TROUBLESHOOT AND REPAIR - CP

5 Credits (#68021) Open to grades 10-12

Do you want to learn how to troubleshoot and repair computers? Students will learn the steps and processes needed to fix computers in a help desk environment. The class will focus on technologies at Chelmsford High School such as Chromebooks, Chromeboxes, ClearTouch panels, Chrome operating system, Chrome browser, and troubleshooting of other platforms. Pupils will learn about hard drives, fixing printing issues, and troubleshooting WiFi. Find out how technologies are deployed and maintained at Chelmsford High School. Design process thinking will be applied to fixing technologies in real-world settings. This course will prepare you to work on a Student Help Desk and give valuable information technology skills. *Prerequisites: Enrollment is limited.*

STUDENT HELP DESK INTERNSHIP - CP - Spring Semester 5 Credits (#68024) Open to grades 10-12

Do you want to be part of an exciting technology opportunity where you will work with computer technicians and other students to be the first point of contact for students, staff and faculty seeking assistance for technology issues at CHS? Apply skills learned in the Technology Troubleshoot and Repair class(#68021) to technology issues in Chelmsford Public Schools equipment. Diagnose, repair and replace equipment as assigned while working in conjunction with CPS technicians. Learn more while working in a guided learning situation. *Prerequisites: Enrollment is limited. Teacher approval.*

ENGINEERING

CHS Engineering courses provide an engaging hands-on application of STEM skills and immerse students in exciting experiences which empower students to move into engineering careers. The classes are project based and showcase student products by providing opportunities in CAD, parts design, 3D printing, architectural design, mechanical and electrical engineering.

Engineers solve problems by using their own innovative ideas and applying them to authentic problems to create a new reality. Engineering skills are in high demand and CHS courses engage students in compelling, real-world challenges to develop a problem solving mindset which will serve them well in college and beyond. Project Lead the Way (PLTW) courses add an additional dimension of competitions, scholarships and internships.

PLTW: INTRODUCTION TO ENGINEERING DESIGN - CP (pending MCC approval) 10 Credits (#25323) Open to Grades 9-12

This full year Science course is ideal for students who want to dig deeper into the engineering design process, applying math, science, and engineering standards to hands-on projects. Students work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work. The Project Lead the Way (PLTW) courses engage students in hands-on activities, projects and problems, empower them to develop in-demand knowledge and skills, and inspire them to reimagine and see themselves as successful in STEM fields. *Prerequisites: None*

PLTW: PRINCIPLES OF ENGINEERING — H (pending MCC approval) 10 Credits (#25413) Open to Grades 9-12

In this full year Science course students are engaged in challenging problems, exploring a broad range of engineering topics including mechanisms and automation, then apply what they know to take on challenges like designing a self-powered car. Students develop skills in problem solving, research, and design skills while learning strategies for design process documentation, collaboration, and presentation. The Project Lead the Way (PLTW) courses engage students in hands-on activities, projects and problems, empower them to develop in-demand knowledge and skills, and inspire them to reimagine and see themselves as successful in STEM fields.

Prerequisites: None

INTRODUCTION TO WOODWORKING AND DESIGN - CP

10 Credits (#69223), Grade 9 - 12

This course is designed to give students hands-on learning opportunities to gain basic skills operating tools and machines to implement and construct furniture and or modular projects in the Technology shop. 21st Century manufacturing technology, material processing and measurement system theory concepts will be integrated. Students will evaluate furniture design criteria of the past, present and future. They will learn technical drawing techniques; solve geometric layouts, scale, proportion and perspective drawing. There will be opportunities for students to work and contribute in collaborative groups as well as individual project work. Understanding and adhering to Industrial Safety Standards is a primary requirement for each student. Both the student and parents must sign a safety contract for participation in this course to help ensure a personal commitment to safety procedures. Grades will be based on the safety contract and student conduct as well as class participation, project work, technical drawings and design. Written tests will include vocabulary, machine safety, measurement and industrial concepts in current manufacturing practice.

INTERMEDIATE WOODWORKING AND DESIGN - CP 10 Credits (#69323), Grade 10 - 12

This course is a continuation of Introduction Woodworking Design and in teams or individually, is intended to cover a variety of concepts and systems within the construction industry. Project work will be done in the technology shop and the CADD lab. The related theory covers design process, technical drawing techniques, automation, material properties and machine technology. Competency Based Skills will be continually assessed on the proper and safe use of tools and machines. A progression into the utilization of CAD/CAM software (Carbide Create, Autodesk, VectorWorks) with CNC wood machining equipment enables students to develop custom projects in conjunction with the Business and Marketing courses for sales and distribution. Students can also expect other assessments including; chapter work, safety quizzes, presentations, CAD and technical drawings; plus hands-on projects and models.

Prerequisite: Successful completion of Introduction to Woodworking and Design

ADVANCED WOODWORKING AND DESIGN - CP

10 Credits (#69423), Grade 11 - 12

This course is a continuation of Intermediate Woodworking and Design. Students are expected to explore more advanced methods of design and residential construction, with an emphasis on methods, practices and management. Construction or manufacturing engineering research projects outside of class with a presentation of proficiency are required. Design drawings and project work will continue to progress from the introductory level. Design Challenges with a variety of materials and ideas requiring more complex designs and drawings will be the ultimate goal.

Prerequisite: Successful completion of Intermediate Woodworking and Design (#69323) or competency determination

INTRODUCTION TO ARCHITECTURE AND CIVIL ENGINEERING - CP 10 Credits (#69523), Grade 9 - 12

Architecture and Civil Engineering is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, stormwater management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. (*See Articulation Agreement between area colleges and Chelmsford High School*) *Prerequisite: None*

INTERMEDIATE ARCHITECTURE AND CIVIL ENGINEERING - CP

10 Credits (#69623), Grade 10 - 12

This course is designed as an advanced continuation of Introduction to Architecture and Civil **Engineering CP.** A combination of architectural models, engineering drawings and design concepts will be explored in greater depth. Students will analyze, design and build electronic and physical models of residential and commercial facilities. While implementing these designs students will continually hone their interpersonal skills, creative abilities and understanding of the design process. A specific focus on new trends in green construction, alternative energy, and new materials will take place. Students can expect assessments including chapter work, tests, quizzes, research papers, CADD drawings and 1-2 hours of homework a week.

Successful completion of Introduction to Architectural and Civil Engineering (#69523) or competency Prerequisite: determination

ADVANCED ARCHITECTURE AND CIVIL ENGINEERING - CP 10 Credits (#69723), Grade 11 + 12

This course is designed as an advanced continuation of Intermediate Architectural and Civil Engineering. The aim of this course is to complete a Capstone Project; an architectural project that is a demonstration of the student's readiness and capacity to engage in the possibility a obtaining a degree of higher learning in architecture or civil engineering. As third-year students in Architecture and Civil Engineering, students are expected to execute work relative to a precise theoretical and practical hypothesis or proposition, communicate intentions and results clearly, proceed according to a pertinent program, employ appropriate research methods, adhere to a coherent schedule, and formulate criteria for determining the success of the project.

Prerequisite: Successful completion of Intermediate Architecture and Civil Engineering (#69623) or competency determination

MATHEMATICS

In order to address the individual needs of students at Chelmsford High School, the mathematics program offers a wide range of courses which vary in content and level of difficulty. All courses will be taught using a variety of instructional strategies and appropriate, available technology. Various forms of assessment will also be used in all classes. All courses will be 10 credit full year courses except where noted. In order to be sure to select the most appropriate course, students are urged to confer with their current mathematics teacher, mathematics coordinator and/or guidance counselor. All students who would like to move up must have the recommendation of their current teacher and should have an A+ in the current course

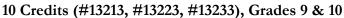
ALGEBRA I – H, CP, CP2 🐸



10 Credits (#12213, #12223, #12233), Grade 9

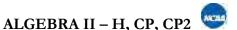
This Algebra I course covers Expressions, Equations, and Functions; Solving, Writing, and Graphing Linear Equations and Inequalities; Systems of Equations and Inequalities; Exponential Functions; Polynomials and Factoring; Quadratic Equations; Data Analysis; and Probability. Students will be required to keep a notebook, read and interpret the algebra text and some independent work. Emphasis will be placed on investigating and solving real world problems that will include open-ended and open-response questions to assist in preparing students for the MCAS exam. Since the course will advocate and encourage the proper use of technology, the purchase of a TI-nSpire CAS CX graphing calculator is recommended.

GEOMETRY – H, CP, CP2 📟



All levels (Geometry—H, Geometry—H2, and Geometry) will cover similar topics but the depth and pace of coverage will be adjusted according to the students' abilities, background, and needs. The Geometry H course focuses more heavily on proof-writing than the other levels of geometry offered. This course is designed to develop geometric thinking starting with the visual and progressing to the analytical, then developing concepts inductively and finally moving to deductive reasoning by using a variety of activities and investigations. Students will work in a variety of settings and configurations to continue the development of mathematical thinking and problem solving skills. They will use the language of geometry to study and form conjectures about geometric figures and concepts in both 2 dimensional and 3 dimensional space, as well as apply their knowledge to practical, real-life problems, which involve measurement, formulas, inductive reasoning, and deductive reasoning. This course can be taken simultaneously with Algebra II. Since the course will advocate and encourage the proper use of technology, the purchase of a TI-nSpire CAS CX graphing calculator is recommended.

Prerequisite for Honors: Algebra I H a grade of 85%.



10 Credits (#14213, #14223, #14233), Grades 10 + 11

This Algebra II course covers Linear Functions (review), Quadratic Functions, Complex Numbers, Polynomial Functions, Rational Exponents and Radical Functions, and selected lessons from Rational Functions. Students will be required to keep a notebook, read and interpret the algebra text and some independent work. Emphasis will be placed on investigating and solving real world problems that will include open-ended and open-response questions to assist in preparing students for the MCAS exam. Since the course will advocate and encourage the proper use of technology, the purchase of a TI-nSpire CAS CX graphing calculator is recommended.

Prerequisite for Honors: Algebra I H grade of 85%, Algebra 1 CP grade of 95% or higher and the recommendation of your teacher.

Quantitative Reasoning and Problem Solving– CP 10 Credits (#14433), Grades 11 + 12

This two semester yearly course is designed for students who have successfully completed Algebra II. The objective of this course is to enable students to see modern usage of mathematical applications in the real world. One semester will focus on topics which include: mathematical decision making with regard to stocks, car interest rates, inflation, personal finance and budget. The remaining semester will focus on researching home market data analysis to make conjectures for logical progression of market trends, calculate mortgage rates & loans, calculate commission percentages, taxes and proration, escrow, closing costs, down payment and residency budget. This course will help students develop college and career skills such as collaborating and conducting research which will prepare them for real world math application. *Prerequisite: Algebra II (14233)*



10 Credits (#15213), Grade 11

Honors Pre-Calculus is designed to cover those topics essential to the study of calculus and it will complete the student's preparation to meet the requirements for the SAT II Math II Exam. Students taking this course will pursue an in-depth study of functions which are used to model the data we encounter when solving real world problems. There is special emphasis on exponential, logarithmic, and trigonometric and inverse trigonometric functions as well as sequences and techniques in data analysis. Additionally, students will learn how to graph in the polar coordinate plane. The Ti-nSpire CAS CX calculator will be used regularly to enhance and facilitate the understanding of solutions to problems. Students will learn how and when to use available technology, but will also be made aware of its limitations.

Prerequisite: Algebra II H with a grade of 85% or higher or Algebra II H2 with a grade of 95% or higher and Teacher Recommendation

PRE-CALCULUS CP & CP2 🐸

10 Credits (#15223, #15233), Grade 11 + 12

This course will provide students an applications-oriented, investigative mathematics curriculum. The curriculum will emphasize functions and how they can be used as models for real world behavior. Linear, exponential, logarithmic, periodic, polynomial and trigonometric functions will be investigated with the use of graphing calculators, computers, and data collection devices. How and when to use technology as well as its limitations will be discussed. Graphing calculators (TI-nSpire CAS CX) will be used on a daily basis in class and for homework.

For students interested in taking AP calculus, successful completion of pre-calculus honors is necessary.

Prerequisite: Algebra II

INTRODUCTION TO STATISTICS – CP 10 Credits (#15423), Grades 11 + 12

This full-year course is designed for students who have successfully completed Algebra II. The course will introduce students to statistical reasoning and methods that are relevant in the fields of medicine, business, education, political science, psychology and entertainment. Topics will include design of experiments and sampling techniques, data analysis and displays, probability and counting principles, discrete probability distributions, normal probability distributions, confidence intervals, and hypothesis testing. Students will be required to keep an organized notebook, read and interpret the textbook, and do independent work. Emphasis will be placed on investigating and solving real world problems that will include open response questions for a variety of applications.

Prerequisite: Algebra II H or CP



10 Credits (#15413), Grades 11-12 predominantly, with special exceptions for Grade 10

Advanced Placement Statistics is a yearlong course for students who are interested in studying statistics in depth. The AP Statistics course will prepare students to take the AP Statistics exam. Emphasis will be given to real-world applications in a variety of disciplines, including medicine, business, education, political science, psychology, sports, and entertainment. Major topics will include:

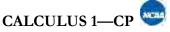
- · Exploring Data observing patterns and departures from patterns
- · Sampling and Experimentation planning and conducting a study
- · Anticipating Patterns producing models using probability theory and simulation
- · Statistical Inference estimating population parameters and testing hypotheses

Students will be required to keep an organized notebook, read and interpret the textbook, and do independent work. Homework will require students to identify appropriate methods for solving problems, show detailed work to support their answers, and provide thorough explanations of their results. In communicating results to problems, particular attention will be given to the proper use of statistical vocabulary and accurate explanations of statistical concepts and methods.

The TI Nspire CX CAS graphing calculator is used for this course. Students will also use statistical software to practice and strengthen their understanding of statistical concepts. In addition to frequent assessments that include both multiple choice and open response type questions, there will be 1-2 projects per term. Projects will provide students an opportunity to gain hands-on experience and make connections between different parts of the course.

Prerequisite: Teacher recommendation and completion of summer work is required for all students. Additionally, Algebra I H and Algebra II H students must have a grade of 80% or higher, and Algebra II CP students must have a grade of 90% or higher.

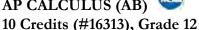
Note: Visit College Board Advanced Placement online to see a complete list of topics.



10 Credits (#16523), Grade 12

This is a problem driven course. Practical, real world problems considered from a geometrical, numerical, and algebraic point of view guide this course. In this context students study differential calculus. Since this course will advocate and encourage the proper use of technology, the purchase of a TI-nSpire CAS CX graphing calculator is strongly recommended as a way of helping students to think mathematically and to connect their learning to the real world.





Advanced Placement Calculus is a year-long course for students who have a thorough knowledge of algebra, geometry, analytic geometry, and the properties of functions. Students will receive an introduction to the differential and integral calculus of elementary functions, including algebraic, trigonometric, exponential functions and their inverses. Additional topics include L'Hôpital's Rule, integration by parts, slope fields, rotational volume, and solving differential equations. Concepts will be pursued from multiple points of view, with algebraic, geometric, and numerical approaches given to the understanding of the concepts of calculus and their applications. The level of theory and rigor is that prescribed by the Advanced Placement Program of the College Board, and the use of graphing technology is required. This course will prepare a student to take the Calculus AB test.

Prerequisite: Pre-Calculus—Honors(#15213), Teacher Recommendation and Completion of a summer work is required for all students. For both AB and BC AP Calculus.

Note: Visit College Board Advanced Placement online to see a complete list of topics. For both AB&BC AP Calculus.



10 Credits (#16413), Grade 12

Advanced Placement Calculus (BC) is a year-long course for students that have a thorough knowledge of algebra, geometry, and the properties of functions. Students will complete the above course description for AP Calculus (AB). AP Calculus (BC) builds upon and extends the concepts explored in Advanced Placement Calculus (AB). Topics covered include the calculus of vector and polar functions, logistic

differential equations, integration by partial fractions, and Newton's method. Additionally, series and polynomial approximations, including Taylor series and test for convergence, will be a major area of study. This course will prepare a student to take the Calculus BC test. Students who take the Calculus BC test will also receive a Calculus AB score.

WORLD LANGUAGE

The World Language Department offers classes that develop and refine communication skills, promote intellectual curiosity, and broaden cultural awareness. In order to prepare our graduates to become citizens of the world, students at Chelmsford High School are required to study two sequential years of language, but are strongly recommended to study a third and fourth year. A variety of instructional strategies, visual and print media sources, and technology tools are used to recreate an authentic learning environment. Active participation in class discussion and completion of assignments beyond classroom instruction are essential aspects to being successful and achieving proficiency in another language.

AMERICAN SIGN LANGUAGE 1 CP 😎



10 credits (#48123) Grades 9, 10, 11

This course is an introduction to American Sign Language (ASL) and the Deaf Community. Through this course, students will learn basic ASL vocabulary, grammar, sentence structure, and the cultural foundations of ASL. Students will learn the manual alphabet (i.e., fingerspelling), numbers, and basic ASL vocabulary (e.g., vocabulary related to family, occupations, clothing). Students will work on developing both an expressive and receptive understanding of WH questions, Yes/No questions, basic sentence structure, directional verbs, and the use of imperatives. Conversational skill practice will be emphasized throughout the course. Students will also have an opportunity to view and discuss cultural information related to both ASL and the Deaf Community.

It is recommended that students who choose ASL 1 CP on the course selection sheet also make an alternative language selection. Enrollment in this year long course counts towards the two year requirement for world language credit.

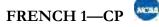
AMERICAN SIGN LANGUAGE 2 CP 😎



10 credits (#48123) Grades 10, 11, 12

This course is a continuation of ASL 1. Students will continue to develop proficiency in the three modes of communication: interpretore, and presentational. Students will continue to practice and refine their fingerspelling and signing skills and expand their knowledge of the Deaf community and culture. Conversational skill practice will be emphasized throughout the course. Students will communicate about topics relating to holiday gatherings, food preparation, daily routines, and academic choices. Students will also have an opportunity to view and discuss cultural information related to both ASL and the Deaf Community.

Students must have completed ASL 1 in the 2020-21 academic year in order to enroll in this course. Enrollment in this year long course counts towards the two year requirement for world language credit.



10 Credits (#41023), Grades 9-12

This introductory course is designed to expose students to the language and cultures of the French-speaking world. Students will develop basic proficiency in the three modes of communication: interpersonal,

interpretive, and presentational. In highly structured and contextualized situations, students will learn to ask and answer simple questions as they communicate about themselves, their families, and their friends. They will hold basic conversations about school, food preferences, fashion trends, and vacation plans, and they will respond to written prompts about their daily lives and responsibilities. There is a strong emphasis on vocabulary acquisition at this level. French will be used as much as possible during classroom instruction.

It is recommended that students who choose French 1 CP on the course selection sheet also make an alternative language selection. For incoming Grade 9 students who studied French in middle school, participation in this course is by teacher recommendation.



10 Credits (2H - #41313; 2CP - #41323), Grades 9-12

This level is designed for students who have successfully completed Grade 8 French at the middle school level or introductory French at Chelmsford High School. Students will continue to develop proficiency in the three modes of communication: interpersonal, interpretive, and presentational. In structured and culturally contextualized situations, students will use the language practically and creatively to describe, gather and clarify information, and express opinions. Students will converse and write about topics relating to holiday gatherings, food preparation, daily routines, and academic choices. They may discuss and analyze the fairytales of Charles Perrault. Students will continue to expand their vocabulary base and increase their knowledge of verb conjugation and time frame. Class will be conducted primarily in French. *Participation in the Honors level is by teacher recommendation*.

FRENCH 3 📟

10 Credits (3H - #41513; 3CP - #41523), Grades 10-12

This intermediate level is designed for students who have successfully completed French 2. Students will continue to develop proficiency in the three modes of communication: interpersonal, interpretive, and presentational. In more open-ended and culturally relevant situations, students will use the language practically and creatively to complete a variety of tasks relating to childhood memories, entertainment, and healthy lifestyles. To expand the number and type of situations in which students can function using the language, students will continue to broaden their vocabulary base and expand their knowledge of verb tense and conjugation to express events in the past, present, and future. Students will read and discuss typical childhood antics in the stories of *Le petit Nicolas*. They may analyze excerpts from the works of Marcel Pagnol as well as select fables by La Fontaine. Class will be conducted in French. *Participation in the Honors level is by teacher recommendation*.



10 Credits (4H - #42013; 4CP - #42023), Grades 11-12

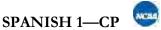
This intermediate level is designed for students who have successfully completed French 3. Students will continue to build proficiency in the three modes of communication: interpersonal, interpretive, and presentational. In open-ended and culturally contextualized situations, students will narrate and discuss, question and debate, and reach consensus on topics which explore the question of individual identity in relation to society. Themes to be explored include education and career choices, current events, advertising and the media, art and technology, and health. Students will watch select audio visual clips, discuss news articles, and analyze authentic literary sources spanning several centuries. Vocabulary acquisition will be guided by topics discussed in class and grammar explanations will highlight exceptions. Class will be conducted exclusively in French.

Participation in the Honors course is by teacher recommendation.

AP FRENCH LANGUAGE AND CULTURE 🧏



This course is designed for students who have successfully completed French 4 Honors and prepares students to take the AP French Language and Culture exam at the end of senior year. Students will continue to build proficiency in the three modes of communication: interpersonal, interpretive, and presentational. Elaborating upon themes studied in previous courses, students will continue to explore the question of identity and how it is conveyed across a range of domains including politics and government, family and ancestry, literature and music, and the environment. Students will watch select film clips, analyze fiction and nonfiction texts, and interpret data. They will evaluate and synthesize information from a variety of print and media sources and will respond verbally and in writing to culturally-contextualized concepts, themes, and ideas introduced in class. AP French Language and Culture is the equivalent of a third year college conversation and composition class. This course will be conducted exclusively in French. *Participation in this course is by teacher recommendation*.



10 Credits (#43023), Grades 9-12

This introductory course is designed to expose students to the language and cultures of the Spanish-speaking world. Students will develop basic proficiency in the three modes of communication: interpretore, and presentational. In highly structured and contextualized situations, students will learn to ask and answer simple questions as they communicate about themselves, their families, and their friends. They will hold basic conversations about their homes, favorite restaurants, fashion preferences, and vacation destinations, and they will respond to written prompts about their daily lives and responsibilities. There is a strong emphasis on vocabulary acquisition and communication at this level. Spanish will be used as much as possible during classroom instruction.

It is recommended that students who choose Spanish 1-CP on the course selection sheet also make an alternative language selection. For incoming Grade 9 students who studied Spanish in middle school, participation in this course is by teacher recommendation.

SPANISH 2 📟

10 Credits (2H - #43313; 2CP - #43323), Grades 9-12

This level is designed for students who have successfully completed Grade 8 Spanish at the middle school level or introductory Spanish at Chelmsford High School. Students will continue to develop proficiency in the three modes of communication: interpersonal, interpretive, and presentational. In structured and culturally contextualized situations, students will use the language practically and creatively to describe, gather and clarify information, and express opinions. Students will converse and write about topics relating to daily routines, healthy lifestyles, and residential life. They may discuss and analyze authentic legends from a variety of Spanish-speaking regions. Students will continue to expand their vocabulary base and increase their knowledge of verb conjugation and time frame. Class will be conducted primarily in Spanish. *Participation in the Honors level is by teacher recommendation*.



10 Credits (3H - #43513; 3CP - #43523), Grades 10-12

This intermediate level is designed for students who have successfully completed Spanish 2. Students will continue to develop proficiency in the three modes of communication: interpresonal, interpretive, and presentational. In more open-ended and culturally relevant situations, students will use the language practically and creatively to complete a variety of tasks relating to childhood memories, shopping, and the environment. To expand the number and type of situations in which the students can function using the language, students will continue to broaden their vocabulary base and expand their knowledge of verb tense and conjugation to express events in the past, present, and future. Students may read and discuss excerpts from select short stories and novels. Class will be conducted in Spanish.

Participation in the Honors level is by teacher recommendation.



10 Credits (4H - #44013; 4CP - #44023), Grades 11-12

This intermediate level is designed for students who have successfully completed Spanish 3. Students will continue to build proficiency in the three modes of communication: interpersonal, interpretive, and presentational. In open-ended and culturally contextualized situations, students will narrate and discuss, question and debate, and reach consensus on a variety of topics which relate to social relationships, education, government, and technology. Students will consider a variety of authentic text sources and watch select film and video clips. Students will continue to build their vocabulary and expand their knowledge of verb tenses and other grammatical topics relevant to the themes discussed in class. Class will be conducted exclusively in Spanish.

Spanish 4H prepares students to take AP Spanish Language and Culture as a senior. Participation in the Honors course is by teacher recommendation.

AP SPANISH LANGUAGE AND CULTURE 💐

10 Credits (#44913), Grade 12

This course is designed for students who have successfully completed Spanish 4 Honors and prepares students to take the AP Spanish Language and Culture exam at the end of senior year. This course will continue to build proficiency in the three modes of communication: interpersonal, interpretive, and presentational. Students will read and analyze selected literary excerpts and be exposed to authentic resources to increase their knowledge of Spanish language, history and culture. Students will learn to evaluate and synthesize information from a variety of media sources. Students will respond verbally and in writing to culturally-contextualized concepts, themes, and ideas presented in class. AP Spanish Language and Culture is the equivalent of a third year college conversation and composition class. This course will be conducted exclusively in Spanish.

Participation in this course is by teacher recommendation.

World Language Electives

INTRODUCTION TO AMERICAN SIGN LANGUAGE (ASL) 1

5 Credits (#48124), Grades 11, 12

In this semester elective course students will be introduced to the basics of ASL: the hand shapes that comprise the numerical and linguistic system, grammar and syntax, vocabulary, fingerspelling, numbers, visual-manual communication, and Deaf culture. "Deafness", Deaf culture and history will be introduced with an emphasis on making comparisons and connections to one's own culture. Students will learn conversational strategies which help maintain a conversation in ASL through interactive activities which allow them to rehearse what they've learned. Topics include: introducing oneself, exchanging personal information, talking about where you live, talking about family, and talking about everyday activities. Class participation required and voicing in English limited, so that visual and manual skill development can be maximized.

FRENCH CONVERSATION AND CULTURE SEMINAR 5 Credits (#42923) Grades 11 and 12

This semester elective course is designed for students who are passionate about French language and culture but are not pursuing AP French. This course is largely communication based and will allow students to practice and refine their interpersonal and presentational communication skills. Students will discuss current events in a variety of media, including newspapers, podcasts, movies, and television shows. Class will be conducted in French.

Students must complete two years of a world language before enrolling in this course.

SPANISH CONVERSATION AND CULTURE SEMINAR

5 Credits (#44923) Grades 11 and 12

This semester elective course is for students who are passionate about Spanish language and culture but are not pursuing AP Spanish. This course is largely communication based and will allow students to practice and refine their interpersonal and presentational communication skills in Spanish. Students will discuss current events in a variety of media including newspapers, podcasts, movies, and television shows. Class will be conducted in Spanish.

Students must complete two years of a world language before enrolling in this course.

FINE AND PERFORMING ARTS

The Fine and Performing Arts Department believes that we are dependent on a visually and aurally literate society that has the ability to cope with multifaceted information and experiences. Students live in a society filled with increasingly complex images and sounds. It is crucial that a Fine Arts education encourage students to take risks, investigate, question, redefine, and invent. Most importantly, the Arts have intrinsic value and are worth learning for their own sake. They possess their own unique body of knowledge, skills, and ways of thinking. There can be no substitute for learning the Arts, and any education that omits the Arts is incomplete. The mission of the Fine Arts Department is to develop life-long participants in, and consumers of, music, visual art, dance, and theater.

'In dance, music, theater, and the visual arts, people express ideas and emotions that they cannot express in language alone. In order to understand the range and depth of the human imagination, one must have knowledge of the arts." Core Concept, Massachusetts Arts Curriculum Framework, October 1999.

APPRECIATING THE ARTS – CP

5 Credits (#51924) Open to Grades 9-12

This is a hands-on, introductory course for students interested in learning about the history of art through a wide range of activities including group discussions, written assignments, and a vast number of studio art projects. Come and explore why and with what materials artists create their art. Go back in time as we explore early Greece and Rome, and create your own clay vessel and mosaic tile. Visit the Renaissance world of Michelangelo and Leonardo da Vinci, and create your own present-day Mona Lisa! Pour your own plaster for a fresco painting, and explore the architecture of the Romanesque and Gothic buildings of the past with simple stain glass creations. Become an Impressionist artist using strokes of colors to capture the light as Claude Monet did in the late 1800s, and then jump into the modern world of Jackson Pollack and splatter an abstract work of controlled chaos. This course will help you become a life-long learner of the arts while also gaining an appreciation for the materials and art of each time period.

No previous art course or experience is required.

STUDIO 1 -FOUNDATION COLOR AND DRAWING - CP

5 Credits (#51224) Open to Grades 9-12

Studio 1 Art Class is designed to introduce basic skills, concepts, and techniques for students to create two-dimensional artwork. An emphasis is on drawing, painting, and color. Studio 1 is the prerequisite for Studio 2. Studio 1 and Studio 2 serve as the prerequisite for Studio 3 Art Class.

No previous art course or experience is required.

Studio 1 and 2 may not be taken during the same semester.

STUDIO 2 — FOUNDATION 2D AND 3D - CP 5 Credits (#51524) Open to Grades 9-12

This class is for all students who wish to continue to develop their artistic skills with an emphasis on 2-dimensional and 3-dimensional artwork (sculpture). Studio 1 and Studio 2 serve as the prerequisites for Studio 3 Art Class.

Prerequisite: Studio 1(#51224). Studio 1 and 2 may not be taken during the same semester.



10 Credits (#51623) Open to Grades 10-12

This class is for all students who wish to continue to develop their artistic skills. Projects will involve extensions of knowledge and skills learned in Studio 1 and Studio 2 as related to drawing, painting, and 3-dimensional art.

Prerequisite: Studio 2(#51524)

ART SCULPTURE STUDIO – CP

5 Credits (#51124) Open to Grades 9-12

This course applies hands-on activities to explore how space, mass, balance, and form combine to create forms and structures. Instruction may include, but is not limited to, sculpture, ceramics, or assemblage. Media may include, but are not limited to, clay, wood, plaster, and paper maché. Cultural and historical connections will be made, along with career and real world applications. Prerequisites: Studio 1(#51224).

HONORS ART PORTFOLIO 1 – H

10 Credits (#53013) Open to Grades 11-12

This class is for all students who wish to further their artistic skills and those students who may be considering majoring or minoring in art in college. Students will be encouraged to develop and advance their artistic skills with various materials and to create a portfolio of their work in drawing, painting, and sculpture.

Prerequisite: Studio 3(#51623) and teacher recommendation

AP ADVANCED ART PORTFOLIO 2: DRAWING

10 Credits (#53513) Open to Grades 11-12

This course is designed for the serious study of art. It is strongly recommended for all students attending art school or pursuing an art-related major or minor in college (fine arts, illustration, graphic design, communications, interior design, architecture, computer graphics, fashion design, etc.). The first semester of this course is dedicated to the preparation, development and presentation of each student's individual portfolio as defined by the College Board and various art schools, colleges and universities. The second semester is designed to encourage the student to initiate, develop and carry out an in-depth independent project focusing on a particular area of concentration (a series of pieces developed out of a cohesive area of study, based on a coherent plan, underlying idea that investigates an individual interest, growth and discovery.) Nightly homework will be mandatory. Summer work is also mandatory.

Prerequisite: Studio 3(#51623), and/OR Honors Art Portfolio(#53013), teacher recommendation, and a 5-piece art portfolio from previous art courses submitted to the AP Art teacher in March prior to enrolling in the class.

AP ADVANCED ART PORTFOLIO 2: 2D DESIGN

10 Credits (#53413) Open to Grades 11-12

This course is designed for the serious study of art. It is strongly recommended for all students attending art school or pursuing an art-related major or minor in college (fine arts, illustration, graphic design, communications, interior design, architecture, computer graphics, fashion design, etc.). The first semester of this course is dedicated to the preparation, development and presentation of each student's individual portfolio as defined by the College Board and various art schools, colleges and universities. The second semester is designed to encourage the student to initiate, develop and carry out an in-depth independent project focusing on a particular area of concentration (a series of pieces developed out of a cohesive area of study, based on a coherent plan, underlying idea that investigates an individual interest, growth and discovery.) Nightly homework will be mandatory. Summer work is also mandatory.

Prerequisite: Studio 3(#51623), and/OR Honors Art Portfolio(#53013), teacher recommendation, and a 5-piece art portfolio from previous art courses submitted to the AP Art teacher in March prior to enrolling in the class.

INTRODUCTION TO DIGITAL PHOTOGRAPHY – CP

5 Credits (#53824) Open to Grades 9-12 This course will focus on incorporating the principles and elements of art into digital photography. Students will learn how digital cameras work, the history of photographic technologies and artists, as well as Photoshop editing skills. Students will be required to complete weekly assignments and will create a portfolio of their work by the end of the course. It is strongly recommended that students use their own digital camera for this course. *Prerequisites: None*

DIGITAL PHOTOGRAPHY II – CP

5 Credits (#53924) Open to Grades 9-12 with Prerequisite

This class will enhance understanding of the elements of art, principles of design and compositional strategies and continue to build a foundation for creating successful original photos. Assignments will focus on developing photographic series around specific conceptual and visual challenges while reinforcing

technical skills and encouraging individual expression. Students will have the creative freedom to explore and build upon their personal style through the photographing and editing processes. *Prerequisite: Intro to Digital Photography(#53824)*

GRAPHIC DESIGN I – CP



5 Credits (#54224) Open to Grades 9-12 with Prerequisite

This class will give students a basic understanding and application of Adobe Illustrator and Adobe Photoshop programs. Using the elements of art and principles of design, students will learn color theory, typography, branding and layout while learning to solve creative problems. Students will learn the design skills of researching, sketching and idea development before using the computer as their final design tool. *Prerequisite: Studio Art I(#51224) or Intro to Digital Photography(#53824)*

GRAPHIC DESIGN II – CP

5 Credits (#54424) Open to Grades 10-12 with Prerequisite.

This class will offer students more experience in creative problem solving and the practical implementation of those solutions across multiple areas of graphic communications. The course will build student knowledge of the Adobe design programs through real-world assignments that simulate experiences of those in the design industry.

Prerequisite: Graphic Design I(#54224)

ANIMATION DESIGN (Animation I) – CP

5 Credits (#54324) Open to Grades 9-12 with Prerequisite

In this class, students will learn the basic principles of animation through exposure to both 2D and 3D design programs and processes. Throughout the class, we will discuss the history and evolution of animation and explore varying techniques and approaches to this exciting multimedia course. *Prerequisite: Studio Art I(#51224) or Introduction to Digital Photography(#53824)*

ANIMATION II – CP

5 Credits (#54524) Open to Grades 10-12 with Prerequisite.

This class will expand upon the skills and knowledge learned in Animation I and will offer students the opportunity to do more independent work to further develop a personal design style.

Prerequisite: Animation Design (Animation I)(#54324)

MUSIC

The Music Department at Chelmsford High School provides students with many opportunities to develop self-expression and aesthetic sensitivity. Course selections vary from large group performance ensembles to more individualized, non-performance courses.



MUSIC THEORY 1 – CP 10 Credits (#54623) Open to Grades 9-12

In Music Theory 1 students will learn the fundamentals of note reading, chord structure, chord progressions, scales, key and key signatures. Beginning ear training is introduced. This course is recommended for students seeking basic, fundamental music enrichment. Limited work is assigned outside of class.

AP MUSIC THEORY

10 Credits (#56513) Open to Grades 10-12

AP Music Theory is designed for students who require theory for career study as well as those who desire it for enrichment. Emphasis is placed on music of Western tonality from 1600-1900. Geared toward preparation for the AP Music Theory exam, the course includes advanced ear training, melodic and rhythmic dictation, sight singing, figured bass analysis, extensive four-part harmonic composition, and basic formal analysis. Significant work is required outside of class.

Prerequisite: Successful completion of Music Theory I(#54623) with teacher recommendation or completion of a theory knowledge assessment (see Department Coordinator)

HONORS TRACK PERFORMANCE ENSEMBLES:

BAND - H (#57013) – Open to grade 9-12 TREBLE CHOIR - H (#57513) – Open to treble voices grades 9-12 CONCERT CHOIR - H (#57413) – Open to tenor/bass voices grade 9-12/treble voices grade 11-12 ORCHESTRA - H (#58013) Open to grade 9-12

See individual course descriptions below

Band, Treble Choir, Concert Choir, and Orchestra may be taken as a Level 1 (Honors) course with the approval of the instructor and the Fine Arts Coordinator if the student agrees to complete the following requirements.

Student must:

- 1) Meet grade level performance expectations as indicated by the ensemble director.
- 2) Perform for a Faculty Jury once a semester during finals.
- 3) Maintain an Honors Portfolio.
- 4) Prepare and audition for the Junior (Grade 9) or Senior (Grades 9-12) District Ensembles or equivalent adjudicated experience at the approval of the director
- 5) Honors students are strongly encouraged to participate in other performance music activities outside of school.
- 6) While not required, private lessons on your voice or instrument are HIGHLY recommended.
- 7) Students must earn a grade of 90 or higher in their ensemble to enter or continue in Honors Level.

Only scheduled students in their performance ensemble may audition for the Northeastern District Festival and All-State, with the recommendation of their Director.

BAND – CP

10 Credits (#57023) Open to Grades 9-12

The Band program is open to all students who play a wind instrument. Students enrolled in this course will participate in Marching Band and Symphonic Band. Students are also given the opportunity to audition for Jazz Ensemble and participate in other extracurricular musical activities such as Athletic Pep Band, Woodwind & Brass Choir or various other chamber ensembles. Attendance at all performances is a course requirement. Only scheduled Band students may audition for the Northeast District Festival and All State Festival with the recommendation of the director. There is also an honors option for this course (see description above).

Prerequisite: None

TREBLE CHOIR – CP

10 Credits (#57523) Open to treble voices in grades 9-10

The Treble Choir is a performing vocal ensemble open to sopranos and altos in grades 9 through 12. Treble Choir is an inclusive class with no prerequisite or audition required. Students from all levels of vocal experience are encouraged to sign up for this fun class! The Treble Choir performs three to four times per year at concerts showcasing a variety of classical and contemporary music. Attendance at these concerts is a course requirement. This course satisfies the prerequisite for membership in select after-school ensembles and eligibility to audition for Northeastern Senior and Junior District festivals. Students desiring a more challenging choral experience are encouraged to sign up for the optional Honors track (TREBLE CHOIR H, # 57513).

Prerequisite: None

CONCERT CHOIR – CP

10 Credits (#57423) Open to bass/tenor voices Grades 9-12, soprano/alto voices Grades 11-12

The Concert Choir is a performing vocal ensemble open to tenors and basses in grades 9 through 12 as well as sopranos and altos in grades 11 and 12. Concert Choir is an inclusive class with no prerequisite or audition required. Students from all levels of vocal experience are encouraged to sign up for this fun class! The Concert Choir performs three to four times per year at concerts showcasing a variety of classical and contemporary music. Attendance at these concerts is a course requirement. This course satisfies the prerequisite for membership in select after-school ensembles and eligibility to audition for Northeastern Senior and Junior District festivals. Students desiring a more challenging choral experience are encouraged to sign up for the optional Honors track (CONCERT CHOIR H, <u>#57413</u>). *Prerequisite: None*

ORCHESTRA – CP

10 Credits (#58023) Open to Grades- 9-12

This performance ensemble is for students who wish to perform advanced orchestral repertoire. Attendance at all concerts is a requirement. Instruments include violin, viola, cello, and bass. Only scheduled string students may audition for the Northeastern District Festival and All-State, with the recommendation of the Orchestra Director. There is also an honors option for this course (see description, above). *Prerequisite: None*

EXPLORING POPULAR MUSIC – CP

5 Credits (#58224) Open to Grades 9-12

This course is open to ALL students, musicians and non-musicians alike! It requires listening, sharing, and discussion. What are the elements of music? What makes music important and relevant in our lives? How has American popular music changed over the years? How do musicians earn a living in today's economy? How has music been used to inspire social and political change? These and other topics will be addressed, and examples of music will be played, listened to, and discussed. *Prerequisite: None*

MUSIC IN A DIGITAL WORLD- CP

5 Credits (#58324) Open to Grades 9-12

This course will focus on incorporating the principles and elements of music with current technology programs such as Garage Band and SoundTrap. Students will explore technology to create, edit, and notate music.

Prerequisite: None

GUITAR 1 - CP

5 Credits (#59024) Open to Grades 9-12

This introductory guitar course is for the beginning guitarist with little or no experience. It is also for guitarists who need to improve their note reading skills and theory. The course will cover 14 basic chords with application to folk and modern pop styles, guitar structure, tuning, elementary rhythms applied to strumming, blues form, first position melody playing, trios, and accidentals. Students may bring their own guitars to class, or use the guitars provided by the school.

Prerequisite: None

ADVANCED GUITAR – CP

5 Credits (#59124) Open to Grades 9-12 with Prerequisite

This course is a continuation of Guitar 1. Initially, this course will be a review of Guitar One's curriculum – reviewing chords and note reading. It will then pick up to major scale construction and playing, key signatures, development of the right hand position with application to scales and accompaniment, arpeggio playing, tab, natural notes up the fretboard, transposition, trios and ensemble playing in many styles: blues, country, classic and rock.

Prerequisite: Guitar 1 (#59024)

THEATRE



INTRO TO ACTING AND PLAY PRODUCTION – CP

5 Credits (#59724) Open to Grades 9-12

This course will be designed to meet the needs of the beginning actor or student who is also interested in technical elements of theater. Course work will include aspects of both acting and play production. The chief area of concentration will be in the basic tools an actor needs (projection, diction, eye contact, theater games). Students will also work on scenes for the beginning actor. In addition, students will learn the basics of stage makeup and design, hair, set design, lighting design and sound design. This course is extremely hands-on, and trips to the CHS Performing Arts Center will be integral to the study. *Prerequisite: None.*

ADVANCED ACTING – CP

10 Credits (#59823) Open to grades 10-12

Advanced Acting offers the student who has already completed Intro to Acting the opportunity to explore much more. Plays will be read, playwrights will be studied. Students will perform in a minimum of eight scenes from various plays. Students will begin to explore role building from the inside out: methods of acting will be taught and explored. These methods include the teachings of Stanislavsky, Meisner, Lee Strasberg, Robert Cohen, Uta Hagen and others. Students will write their own scenes, helping them further understand the playwright and character development.

Prerequisite: Intro to Acting(#59724)

IMPROVISATIONAL THEATER – CP

5 Credits (#59824) Open to Grades 9-12

Students will learn and explore some of the core fundamentals and principles of improvisational acting through theater games and exercises. Students will explore movement as an actor using Anne Bogart's VIEWPOINTS. Commedia Del Arte, Italy's oldest Improvisational style of theater will be explored. In addition, social issues of today will be examined through improvisational scenes created by the class. Basic

tenets of acting will be examined including: active listening, character, status, making your scene partner look good and "yes, and". Improvisation as it is used today (audience participation theater, auditioning for film and television, playwriting, improv for social consciousness) will be part of this class. In addition, an introduction to Shadow Puppetry as a unit will help students not only physically make and perform shadow puppets, but use improv for scenes to make their own creations come to life! Each class will begin with an improv game/warm up and will close with one! Prerequisite: None.

DIGITAL FILMMAKING: WRITING, ACTING IN, AND PRODUCING SHORT OR FULL



LENGTH FEATURE FILMS - CP 5 Credits (#59624) Open to Grades 9-12

This course is designed for all students interested in film and video production. From concept to storyboard to production elements and cinematography, this course is a true hands-on experience. Many short students films will be created by students, including: silent comic film, mystery suspense film, documentary and public service announcements. The course will also examine the historical roots of film and study the films that have had a major impact on the industry. Contributions of famous directors (Charlie Chaplin, Buster Keaton, Orsen Welles, D. W. Griffith, Alfred Hitchcock, Stanley Kubrick, Stephen Spielberg, Spike Lee, Christopher Nolan) will be viewed, analyzed and discussed. Students will learn elements of production including writing original scripts, creating a storyboard, creating a production staff, choosing locations, casting actors, the role of the casting director, and filming their original works. The course will also present guest speakers from the film industry.

Prerequisite: None

WELLNESS (PE/HEALTH)

PHYSICAL EDUCATION

Grade 9/10 ELECTIVES

YOGA AND FITNESS - CP 5 Credits (#76404)

This is a freshman elective course that will integrate the principles of yoga, cardio, and strength training. The course is designed to build strength and endurance, improve balance, increase flexibility, improve cardio health and meld movement and breath. This course will work on building self confidence, communication skills, and teamwork while working on adventure activities and the low ropes course. In this course you will have an opportunity to explore your own personal fitness levels and goals while working towards achieving these goals in and outside of school.

LIFETIME SPORTS - CP 5 Credits (#77124)

This is a freshman elective class that will focus on sports/activities that use a net. This course will be centered on the sports of badminton, pickleball, triangleball, disc golf, volleyball, and tennis. A great deal of emphasis is placed upon demonstrating good sportsmanship and character qualities, practicing appropriate behaviors, and developing the skills necessary to participate in these sports. This class will also include an introduction to personal fitness with a focus on learning about the basics of strength and conditioning.

Grade 10 REQUIRED

Please choose ONE of the following courses to fulfill the Grade 10 Physical Education requirement.

EXERCISE AND CONDITIONING 10 - CP

5 Credits (#76354)

This course is designed to give students the opportunity to learn the components of fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will learn how to safely use various exercise equipment, the basic fundamentals of strength training, aerobic training, and overall fundamentals of fitness training and conditioning in the Fitness Center and Gymnasium. Principles of strength training, elements of cardiovascular health, basic anatomy and physiology, and the elements of a personal fitness plan are topics covered during the course. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. Students will learn how to use polar heart rate monitors in this course as well as how to assess their own heart rate data while performing various types of physical exercise. Students will also have the opportunity to obtain a two-year American Heart Association's HeartSaver First Aid CPR AED Provider certification.

TEAM GAMES 10 - CP

5 Credits (#77154)

This class is designed for students who enjoy participating in team sports (i.e., basketball, capture the flag, soccer, ultimate Frisbee, floor hockey, etc.). In team games the curriculum is designed to help students develop positive self-esteem with regard to their physical skills and knowledge of the rules and strategies

through different games and sports. A great deal of emphasis is placed upon demonstrating good sportsmanship and character qualities, while developing the skills necessary to participate in both competitive and different high and low ropes course challenges. Students will also have the opportunity to obtain a two-year American Heart Association's HeartSaver First Aid CPR AED Provider certification.

WELLNESS ACTIVITIES 10 - CP

5 Credits (#77924)

This class is designed to improve muscular strength, endurance, flexibility, posture, balance, and relaxation techniques. Students will gain an in-depth understanding of yoga postures, benefits associated with yoga, along with the benefits, organization, implementation, and evaluation of a balanced aerobic fitness program utilizing walking as the primary activity. This course will also include cooperative games, elementary games, and work on building self confidence, communication skills, and team cooperation while working on adventure activities and the low ropes course. Students will also have the opportunity to obtain a two-year American Heart Association's HeartSaver First Aid CPR AED Provider certification.

Grade 11 REQUIRED

Please choose ONE of the following courses to fulfill the Grade 11 Physical Education requirement.

TEAM GAMES 11 - CP

5 Credits (#77824)

This class will provide students with opportunities to enjoy traditional team sports and games (i.e., floor hockey, basketball, volleyball, team handball, etc.) as well as some non-traditional activities like disc golf, low ropes course, high ropes course, etc. In this class, the curriculum is designed to advance students' positive self-esteem with regard to their physical skills and knowledge of the rules/strategies of games so that they will choose to remain physically active beyond graduation. A great deal of emphasis is placed upon demonstrating good sportsmanship and character qualities, practicing appropriate behaviors and developing the skills necessary to participate in game play as well as the high and low ropes courses. *Prerequisite: Passing grade in Sophomore Physical Education Class*

WELLNESS ACTIVITIES 11 - CP

5 Credits (# 77624)

This class is designed to improve muscular strength, endurance, flexibility, balance, and relaxation techniques. Students will gain a more in depth understanding of yoga postures, benefits associated with yoga, along with the benefits, organization, implementation, and evaluation of a balanced aerobic fitness program utilizing fitness walking activities as the primary activity. This course will also include the low ropes adventure course, cooperative games and elementary games which will work on building self-confidence, self-esteem, problem solving skills and communication skills.

Prerequisite: Passing grade in Sophomore Physical Education Class

STRENGTH AND CONDITIONING 11 - CP

5 Credits (#76304)

This course is designed to give students a deeper look into the components of fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will learn advanced fundamentals of strength training, aerobic training, and overall fundamentals of fitness training and conditioning in the Fitness Center and Gymnasium. Principles of strength training, elements of cardiovascular health, anatomy and physiology, and the elements of a personal fitness plan will be worked on in this course. Students will be empowered to make healthy choices, meet challenges, and develop

positive behaviors in fitness, wellness, and movement activity for a lifetime. Polar heart rate monitors will be used in this course in order to assess their own heart rates data through movement. *Prerequisite: Passing grade in Sophomore Physical Education Class*

Grade 11/12 ELECTIVES

ADVANCED PHYSICAL EDUCATION (PE) - CP

5 Credits (#76204)

This is an elective option for juniors and seniors who enjoy participating in team sports (i.e., basketball, capture the flag, soccer, ultimate Frisbee, mat ball, floor hockey, etc.). In Advanced PE, the curriculum is designed to help students develop positive self-esteem with regard to their physical skills and knowledge of the rules and strategies of the games so that graduates will choose to remain physically active beyond graduation. A great deal of emphasis is placed upon demonstrating good sportsmanship and character qualities, and developing the skills necessary to participate in different team sports, lifetime sports, as well as the high and low ropes courses.

TECHNIQUES AND PRINCIPLES IN ATHLETIC TRAINING - CP

5 Credits (#77524)

The purpose of this class is to prepare students in skills used in the fields of Sports Medicine-and-Athletic Training. The course includes the history of the athletic training profession, ethics, proper recording of injuries, taping, and principles of athletic training. The content includes, but is not limited to, roles and responsibilities of team members, emergency and non-emergency procedures, anatomy and physiology, injury evaluation, equipment and modalities of rehabilitation, injury and disease prevention, and protective equipment.

UNIFIED PHYSICAL EDUCATION - CP

5 Credits (#77724)

Unified physical education is an elective course designed for students interested in working with students who have special needs. Throughout the course, students will work one-on-one with students who have cognitive and physical disabilities in an active setting. The physical education curriculum will be taught by the physical education instructor, which will be assisted by students working one-on-one with these students as a support to help guide them through the following lifetime activities: cooperative games, locomotor skills and patterns, striking, throwing, short and long handed implements, and fitness. Students in this course will learn how to provide a positive movement learning experience to students with special needs; increase their knowledge on different disabilities; learn strategies to support students in the development of movement skills in the areas of gross motor patterns, manipulative skills, striking skills, and fitness; and help foster a positive learning and social environment for students with special needs.

HEALTH and WELLNESS Grade 9 Required Course

LIFE MANAGEMENT SKILLS - CP 5 Credits (#73024)

This course is designed to assist students in making positive choices related to physical, mental/emotional, and social health. This class focuses on developing students' skills in the areas of: accessing valid & reliable information; analyzing influences; interpersonal communication skills; decision making skills; goal setting; and advocacy. The content of this course will focus on: leading causes of death and prevention; stress management, time management, and mental health; dating, relationships; substance, use, abuse, and addiction; nutrition and fitness; and responsible social media use. Consistent points of interest include self-concept, respect, responsibility, positive communication and actions, and safety. This course will help build the life skills necessary to make wise choices related to personal health and the health of others. *A positive parent permission slip will be required for the Human Sexuality portion of the course*.

Grade 11/12 Electives and Grade 12 Required*

Junior/Senior Courses*

Please choose 1 of the two following health and wellness courses listed below to fulfill the graduation requirement. A second course can still be taken as elective outside of this graduation requirement.

REALITY CHECK 2.0 - CP

5 Credits (#75024)

The Reality Check course is opened to juniors and seniors in High School who want to gain the health skills and tools necessary to move on to the next step of their lives after high school and to set the foundation for a lifetime of health and wellness. This course will focus on the reality of today and assist students in identifying the skills necessary to navigate through that reality. They will build skills in:

- Understanding and analyzing influences on one's health behaviors;
- Using interpersonal communication for their personal and family's health and wellness;
- Making decisions that improve health outcomes;
- Setting goals for a health-enhancing lifestyle;
- Managing oneself to better health;
- Becoming an advocate for one's own health and wellbeing.

Students are invited into a classroom environment geared toward each of them building their own skills while gaining and refining their personal skills in order to become an effective member of their Reality Check Team.

Prerequisite: Passing grade in Life Management Skills Class

THE POWER OF CHOICE - CP

5 Credits (#66524)

Do you wonder how to "Fuel the Teen Machine"? Students interested in becoming empowered with the tools necessary to make healthy lifestyle decisions will benefit from this course. You will find the answers to: How do you gain nutritional balance to maintain the energy for family, school, friends, and...life? How do you detect myth from fact in choosing the components of your diet? How do you use current resources to create your personal plan to perform at your optimal level? In this class, students will develop the following skills all within the context of nutrition: goal setting; your personal nutritional needs; food labeling;

measurement and portion control; fuel analysis; meal prep and meal planning; and fitness planning. The Power of Choice is yours!

Prerequisite: Passing grade in Life Management Skills Class

FAMILY AND CONSUMER SCIENCES

All Family and Consumer Sciences Courses are aligned with the Massachusetts Health Curriculum Frameworks.

Family and Consumer Sciences courses prepare students for multiple roles in the home, work and the community as well as offer training for many diverse professions including day-care worker, babysitter, and with further education, a preschool, elementary, middle school, or high school teacher. By coordinating classroom theory with hands-on experience, students develop and enhance their creative skills, and their problem-solving skills necessary for successful living now and in the future. All Family and Consumer Science courses are aligned with the Massachusetts Health Curriculum Frameworks. Each of these courses is considered a practical art.

Grades 9, 10, 11, & 12

EXPLORING EARLY CHILDHOOD 1 - CP 5 Credits (#67024)

This semester course combines classroom instruction with hands-on participation working with children in the Lion's Den Preschool (the in-house preschool) and with school-age children in the Extended Day Program at Harrington School in the morning. Theory of Child Development is studied throughout the course, including the physical, social, emotional, and cognitive development of children from age three to twelve. With knowledge gained in the classroom, students have the opportunity to create and develop developmentally appropriate activities for the young children they will be working with. Students also have the opportunity to explore careers in this field. Students who are 18 years old will be asked to fill out a C.O.R.I. form and provide photo identification before they begin working with the young children. This course is considered a practical art.

Grades 10, 11, & 12

EXPLORING EARLY CHILDHOOD 2 - CP 5 Credits (#67424)

This semester course is a sequel to Exploring Early Childhood 1. Students will continue to work with children in the Lion's Den Preschool (the in-house preschool) and with school-age children in the Extended Day Program at Harrington School in the morning. Again, theory of Child Development is studied throughout the course, including the physical, social, emotional, and cognitive development of children from age three to twelve. However, pregnancy, prenatal development, and the birth process are discussed at great length. Students will have the opportunity to simulate parenthood in this course. Students will also have the opportunity to plan an entire day in the Lion's Den Preschool by creating several developmentally appropriate activities for the preschool children. Students who are 18 years old will be asked to fill out a C.O.R.I. form and provide photo identification before they begin working with the young children. This course is considered a practical art.

Prerequisite: Exploring Early Childhood 1.

EXPLORING EARLY CHILDHOOD 3/DIRECTED STUDY - CP

This year-long advanced course is a continuation of Exploring Early Childhood 1 and 2. This course gives high school students a more comprehensive understanding of the day-to-day operations of a preschool, kindergarten, elementary or middle school classroom. Throughout the course, students work as teacher assistants with a mentor teacher within the school system. With the help of the mentoring teacher, each student will be expected to teach at least six lessons to the young students they are working with. Students will also do independent research on early childhood theorists. The final assessment of the course is the completion of a portfolio. Students who are 18 years old will be asked to fill out a C.O.R.I. form and provide photo identification before they begin working with young children. This course is designed for students pursuing a career working with children. This course is considered a practical art. *Prerequisite: Exploring Early Childhood 2.*

BUSINESS EDUCATION

Would you like to earn college credit for your high school courses? Many courses in the Business Department are optional Dual Enrollment and for a small fee those courses will earn 3 credits which can be transferred into some colleges. Just look for the <u>MCC</u> symbol next to the course name.

The Business department faculty seeks to provide all students with current conceptual and technology skills necessary to meet students' future career goals. The Business courses, and courses develop valuable skills needed in every business such as creativity, critical thinking, problem solving, communication, and collaboration skills sought by business leaders when hiring. The Business curriculum combines the key elements of academic and 21st Century themes, while exposing students to today's global economic concepts. We utilize modern technology to explore the vast world of business, develop expertise, and to provide a foundation for further collegiate study. We also offer membership in Distributive Education Club of America (DECA.org) and a Retail Internship.

The Marketing, Accounting, Management and Business Career Pathways courses are part of the Innovations Pathways, an exciting opportunity that is new this year and gives students four courses to build valuable business skills in preparation for college or career. Grades 9 and 10 concentrate on Marketing and Accounting while Grades 11 and 12 take the advanced Management and Career Pathways to explore all facets of business.



5 Credits (#61324) Open to Grades 10-12

BUSINESS ETHICS - CP

This course provides an introduction to corporate social responsibility and ethics in strategic business settings. Through examining traditional and contemporary ethical philosophies, we look to gain a better understanding of how ethics is applied in business activities. To accomplish this, students will have to

examine their own moral decision making in determining right and wrong. This course will develop the ability of each student to read and reason critically.

Students will:

- Differentiate the legal point of view from ethical point of view
- Demonstrate an awareness of the primary governmental restraints on
- morality in business, and to anticipate common occupational hazards
- Read closely, critically analyze and construct arguments
- Communicate effectively via written and oral discourse
- Students will identify the diversity and commonality of moral values across cultures

Students in this Business Ethics course are also eligible for DECA. *Prerequisites: None*

BUSINESS & CAREER PATHWAYS-CP

5 Credits (#62024) Open to Grades 9-12

Where do you see yourself in five years? This is a common interview question and most students won't have an answer. In addition the American Economy is changing at a rapid pace and we're educating students for careers that aren't even invented yet. No matter what path our students choose they will require business skills and knowledge to survive. In this course we will investigate various industries and careers within those industries through research, speakers and field trips. We will gain a general understanding of the major disciplines of business in the 21st century, such as US and Global Business Environments, Entrepreneurship, and Personal and Business Finance, through the use of hands-on, enjoyable, and challenging activities. Lastly, students will develop skills essential to success in any career such as time management, communication, leadership, social media etiquette, public speaking and accountability. Students in this course are also eligible for DECA.

Prerequisites: None



ACCOUNTING 1— CP MIDDLESEX 5 Credits (#62424) Open to Grades 9-12

Accounting 1—CP is a one semester course open to all students. Students will explore the fundamental concepts of Financial Accounting. High emphasis is placed on computerized Accounting practices. Students will complete a variety of short and long term projects using *Aplia Online Working Papers* and customized Google Sheets spreadsheet templates. Students will also get a taste of authentic Accounting in action as they observe and assist in the bookkeeping activities of DECA's Lions Locker School Store and Custom Apparel business. Accounting Students are eligible for DECA team and competition. *Prerequisites: None*

ENTREPRENEURSHIP - CP (pending MCC approval)

5 Credits (#64124) Open to Grades 10-12

This course will introduce individual components of entrepreneurship and their implications for society. Special emphasis is placed on decision-making and problem solving in society through an understanding of opportunity recognition, economic/financial models, value creation, and basic entrepreneur-related concepts.

This course also introduces students to the theory of entrepreneurship and its practical implementation. Students will have the opportunity to use state of the art software and apparel decoration equipment to aid in the learning process. Centered around a mixture of theoretical exploration as well as case studies of real-world examples and guest lectures, students will develop an understanding of successes, opportunities and risks of entrepreneurship. Students will also develop skills in written business communication and oral presentations that allow students to integrate entrepreneurship concepts and interact with business experts. Students in this course are eligible for DECA team and competition. *Prerequisites: None*

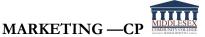
MONEYSMART - CP (Course exists we are just waiting on approval as DE by MCC) 5 Credits (#61424) Open to Grades 9-12

In today's unstable economic and financial climate, it is essential that students become financially literate citizens who will understand the concepts of financial security today and in the future. They will develop knowledge, skills, and confidence to begin assuming responsibility for their financial future. Students will develop critical thinking skills with respect to financial planning concepts as they relate to their own individual situations. Topics will include:

- Education and Employment
- Financing a car loan
- College Financing
- Credit Cards and Debit Cards
- Budgeting
- Saving and Investing Basics
- Impacts of Credit Use
- Consumer Decision Making
- Insurance

Students will take part in a variety of realistic experiences throughout the semester including the H&R Block Virtual Business Personal Finance Simulation as well as a customized Investopedia stock market game. Banking professionals will engage the students in several interactive presentations. Financial Planning students are eligible for DECA competition.

Prerequisites: None



5 Credits (#65024) Open to Grades 9-12

A college oriented course designed to cover key topics such as: the role of marketing in our economy; consumer behavior; market planning; the development of the marketing mix; market segmentation; pricing strategies; selling and advertising. Discussions, case studies, oral presentations, and writing assignments will be a part of the required coursework. Computer simulation programs will be used to enhance student understanding in multiple areas. Students are eligible for and are encouraged to participate in DECA and compete with other students in specific areas of study they are interested in: concert/event promotion, fashion buying, displaying and showcasing. Students will explore the determination of target markets, the psychological influences that cause people to buy, and the appropriate advertising methods used to reach the appropriate audiences. Students will be encouraged to participate in DECA competitions and events where they will have a chance to successfully apply their knowledge in a variety of academic and hands-on settings.

Prerequisites: None



MANAGEMENT—CP MIDDLESEX 5 Credits (#65424) Open to Grades 9-12

This semester course introduces basic functions and how organizations/businesses are owned, managed, and controlled. The managerial roles of planning, leading, organizing and controlling provide the framework

that course materials are built around. Areas of concentration include legal and ethical considerations in management, decision-making and communication skill development, and leadership principles. Computer simulations are utilized to enhance student understanding. Students are eligible and encouraged to participate in DECA competitions and events where they will have a chance to successfully apply their knowledge in a variety of academic and hands-on settings. *Prerequisites: None*

GOOGLE - ADVANCED APPS - CP



5 Credits (#62324) Open to Grades 9-12

Success in the modern workplace requires the ability to communicate effectively and efficiently. This communication can take many forms, written words, charts, and/or spreadsheets. This class will allow you to become proficient in using these Apps individually and collaboratively to become workplace ready. Tools used will include:

- Docs
- Sheets
- Slides
- Drive
- Calendar
- Meet
- Sites
- Groups

Students will have the option of certification testing at the end of this course. This course is fully compatible with the Chromebooks students have been receiving. *Prerequisite:* NONE

E-COMMERCE MARKETING - CP (pending MCC approval)

5 Credits (#65124) Open to Grades 9-12

This CP level course is ideal for students interested in exploring how to conduct business online. Students will study how implementing technology can engage cardholders, merchants, issuers, payment gateways and other parties in electronic transactions. The importance of proper integration between an e-commerce website and various social media promotions will be a heavy focus of this course.

In this experiential learning students will evaluate and update a working internet commerce site for the Lions Locker, CHS school store. Students will learn the importance of positioning a retail brand against target consumers, choosing category assortment, negotiating certain terms with vendors, setting prices and promotions, managing inventories, developing messaging and advertising through traditional methods as well as social media marketing while factoring in competition, and constructing a viable online business model. The creative outlets for students in the class are endless. DECA eligible course. *Prerequisites: None*

RETAIL INTERNSHIP - CP

5 Credits (#64324) Open to Grades 9-12

Students will work in the CHS DECA School Store under the supervision of CHS business department faculty. Students learn the fundamentals of inventory management, customer relations, retail merchandising,

and basic bookkeeping. Students will also be involved in the production of custom apparel products using state of the art heat press and vinyl cutting equipment.

Prerequisites: Successful completion of 1 Business Education Dept. Class and Instructor Approval

MICROSOFT OFFICE CERTIFICATION- CP(pending MCC approval)

5 Credits(#61524) Open to Grades 9-12)

Demonstrate that you have the skills needed to get the most out of Microsoft Office by earning a Microsoft Office Certification in a specific Office program. Master the Office 2016 Word, PowerPoint, Excel and Access in this hands-on course where instructor demonstrations and directions guide you through the tips and techniques of optimal use of these software packages. While it is not required, students can take the optional Microsoft Office certification test (for an additional fee) at the completion of the course if they wish or they can just learn the programs for use in school and future career.

Prerequisites: None

Senior Capstone Experience

Starting in the Spring of 2020, Seniors at Chelmsford High School will be granted the opportunity to embark on a Senior Capstone Experience. Seniors are encouraged to participate in the 4th quarter experience in one of the following ways:

- **Internships:** Unpaid work experience for students that is structured to help demonstrate practical applications for academic learning. These experiences help students focus on career goals, motivate them in school, and may even lead to future employment.
- <u>Community Service</u>: Students volunteer their time in hospitals, nursing homes, or other community agencies. Previous sites include volunteering the Cameron Senior Center, Lowell Humane Society or Habitat for Humanity. At least half of the student's weekly community service hours must be spent in direct contact with the organization for which they are volunteering.
- <u>The Project:</u> (Only for students enrolled in at least two AP courses) In-depth research on an approved topic of choice. With the help of a faculty advisor and site supervisor in the community, the student plans and carries out an in-depth study of a particular topic, such as scientific research or developing a computer program. Research projects can take one of the two following forms:
 - **Research Paper:** Must be 15-20 pages in length (depending on number of AP courses). Paper must address a specific, focused essential question. The paper must cite a minimum of 10 sources; at least half must be print sources (ex: journal article or book). Paper must contain in-text citations as appropriate and follow MLA or APA format.
 - **Research Projects:** Students engage in extensive research on a detailed topic that is then translated into a tangible final product. Past examples have included: a portable UV sanitizer, iPhone app development, and kinetic sculpture.

Please speak to your counselor about this opportunity!

GUIDANCE

Questions about course selections and/or levels for students in the *Class of 2025* should be directed to the counselors at the student's middle school.

McCarthy Middle School	Ms. Jessica Vining	978-251-5122	viningj@chelmsford.k12.ma.us
Parker Middle School	Ms. Mellissa MacIsaac	978-251-5133	macisaacm@chelmsford.k12.ma.us

Questions about course selections and/or levels for students in the *Classes of 2022, 2023, and 2024* should be directed to the student's courselor at the high school. Courselor assignments are according to the student's last name and house assignment at Chelmsford High School (978) 251-5111:

Emerson House	A through K	Ms. Mariclare O'Neal	Ext. 5522
Emerson House	L through Z	Ms. Kara Kelley	Ext. 5519
Hawthorne House	A through K	Ms. Tammy Leary	Ext. 5585
Hawthorne House	L through Z	Ms. Christine Lima	Ext. 5603
Whittier House	A through K	Ms. Jennifer Orsini	Ext. 5547
Whittier House	L through Z	Ms. Jamie Hill	Ext. 5560

DEPARTMENT COORDINATORS

Curriculum-related questions should be directed to the corresponding Department Coordinator (978) 251-5111 at the following extensions:

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English	Abbey Dick	Ext. 5667	dicka@chelmsford.k12.ma.us
Fine & Performing Arts	Christina Whittlesey	Ext. 5602	whittleseyc@chelmsford.k12.ma.us
Guidance	TBD	Ext. 5601	
Mathematics	Matthew Beyranevand	Ext. 5552	beyranevandm@chelmsford.k12.ma.us
Physical Education,	Kathryn Simes	Ext. 5553	simesk@chelmsford.k12.ma.us
Family and Consumer			
Science, Health &			
Wellness			
Practical Arts:	Marilyn Sweeney	Ext. 5639	sweeneym@chelmsford.k12.ma.us
Technology			
Business & Media			
Reading and ESL	Kelly Rogers	Ext. 5546	rogersk@chelmsford.k12.ma.us
Science and	Jonathan Morris	Ext. 5659	morrisj@chelmsford.k12.ma.us
Technology/Engineering			
Social Studies	Stephanie Quinn	Ext. 5520	quinns@chelmsford.k12.ma.us
Special Education	Shawna Mottram	Ext. 5584	mottrams@chelmsford.k12.ma.us
World Language	Jessica Nollet	Ext. 5686	nolletj@chelmsford.k12.ma.us

PROGRAM OF STUDIES ~ 2020 – 2021 Practical Arts Courses



COMPUTER PROGRAMMING COURSES

Programming 1 CP	10 Credits (Dual Enrollment)	#17723	Grades 10, 11, + 12	Prerequisite: Completion of Algebra 1
PLTW AP Computer Science Principles	10 Credits (Dual Enrollment)	#17524	Grades 10, 11 + 12	Prerequisite: None
AP Computer Science A	10 Credits	#17513	Grade 11 + 12	Prerequisite: Completion of Computer Programming 1 and Teacher Recommendation

FAMILY AND CONSUMER SCIENCES

Exploring Early Childhood	5 Credits	#67024	Grades 10, 11, 12	Prerequisites: None
1—СР				
Exploring Early Childhood	5 Credits	#67424	Grades 10, 11, 12	Prerequisite: Exploring Early
2— CP				Childhood 1
Exploring Early Childhood	10 Credits	#67623	Grade 11 + 12	Prerequisite: Exploring Early
3/Directed Study — CP	(Dual			Childhood 2
	Enrollment)			

BUSINESS EDUCATION

Business & Career Pathways CP	5 Credits (Dual Enrollment)	#62024	Grades 9-12	Prerequisites: None
Business Ethics CP	5 Credits	#New	Grades 10-12	Prerequisites: None
Accounting 1 CP	5 Credits (Dual Enrollment)	#62424	Grades 9-12	Prerequisites: None
Entrepreneurship CP	5 Credits	#New	Grades 10-12	Prerequisites: None
Marketing CP	5 Credits (Dual Enrollment)	#65024	Grades 9-12	Prerequisites: None
MoneySmart CP	5 Credits	#61424	Grades 9-12	Prerequisites: None
Management CP	5 Credits (Dual Enrollment)	#65424	Grades 9-12	Prerequisites: None
Google Advanced Apps CP	5 Credits (Dual Enrollment)	#62324	Grades 9-12	Prerequisites: None
E-Commerce Marketing CP	5 Credits	#New	Grades 9-12	Prerequisites: None

Microsoft Office	5 Credits	#61524	Grades 9-12	Prerequisites: None
Certification CP				
Retail Internship CP	5 Credits	#64324	Grades 9-12	Prerequisites: None
Communication/Media 1 CP	5 Credits	#81004	Grades 9-12	Prerequisites: None
TV & Broadcasting- CP	5 Credits	#81204	Grades 9-12	Prerequisites: None

DIGITAL LITERACY

Technology Troubleshoot and Repair CP	5 Credits	#68024	Grades 9-12	Prerequisites: None
Student HelpDesk Internship CP	5 Credits	#68124	Grades 9-12	Prerequisites: None

TECHNOLOGY/ENGINEERING

Introduction to Furniture and	10 Credits	#69223	Grade 9 – 12	Prerequisites: None
Construction Management				
Intermediate Furniture and	10 Credits	#69123	Grade 9 – 12	Prerequisites: #69223
Construction Management				
Advanced Furniture and	10 Credits	#69723	Grade 10 – 12	Prerequisites: #69723
Construction Management				
Introduction to Architecture and	10 Credits	#69523	Grade 9 – 12	Prerequisites: None
Civil Engineering				
Intermediate Architecture and	10 Credits	#69623	Grade 10 – 12	Prerequisites: #69523
Civil Engineering				
Advanced Architecture and Civil	10 Credits	#69923	Grade 11 + 12	Prerequisite: Teacher
Engineering				recommendation
Robotics- CP	5 Credits	#69724	Grade 9 - 12	Prerequisites: None
PLTW: Introduction to	10 Credits	#25323	Grade 9 - 12	Prerequisites: None
Engineering Design -CP				
PLTW: Principles of Engineering	10 Credits	#25423	Grade 9 - 12	Prerequisites: None
- H				

English

Journalism	5 Credits	# 07024	Grade 10 – 12	Prerequisites: None
Public Speaking	5 Credits	# 07704	Grades 10 - 12	Prerequisites: None
AP Seminar	10 Credits	#06113	Grade 11	Prerequisites: None

Social Studies

Speech and Debate	5 Credits	# 34021	Grades 10 - 12	Prerequisites: None
Civics	5 Credits	#38724	Grades 11-12	Prerequisites: None
AP Research	10 Credits	#06213	Grade 12	Prerequisites: AP Seminar





Directions:

- Log on to your STUDENT X2 account.
- Click the "My Info" top tab and then "Requests" left side tab

Graduation Progress - Be sure to check your Graduation Progress prior to making your course selections

Primary Requests (70 credits)

- 1. Review your teacher recommendations.
 - a. Exit Entry Mode (The button is located under the word Reports)
 - i. Review all of your teacher's recommendations
 - ii. All AP and Honors courses require a teacher recommendation.
 - b. Select the box next to each department to make additional requests.
 - c. If you disagree with any of the recommendations, contact your teacher
 - d. If you wish to remove a teacher recommendation for an AP or Honors Course Write a note in the "notes for counselor" section at the bottom
- 2. Select your Elective Courses
 - Select enough courses to have a total of 70 credits

Alternate Requests

- 1. You are required to select 4 Alternate Courses.
- 2. Rank the courses 1 to 4 in the "Alternate Priority" Column. Select OK

Check your work! You should have 4 Alternate Requests and 70 Credits

Notes to your counselor

Use the "Notes" section to give your counselor any additional information they may need.

Post Your Selections

Clicking the "Post" button will save your work and share it with your counselor.





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	GRADE 9 ENGLISH			GRADE 9 MATHEMATICS	
00513	ENGLISH 9 H	10	12213	ALGEBRA 1 H	10
00523	ENGLISH 9 CP	10	12223	ALGEBRA 1 CP	10
92033	LIT & LANG 1	10	12233	ALGEBRA 1 CP2	10
94053A	ENGLISH 9	10	13213	GEOMETRY H	10
07304	WRITING FOR HIGH SCHOOL	5	13223	GEOMETRY CP	10
08804	READING FOR HIGH SCHOOL	5	13233	GEOMETRY CP2	10
	GRADE 9 SOCIAL SCIENCES		94253A	MATH 9	10
32413	MODERN WORLD HISTORY H	10		GRADE 9 SCIENCE	
32423	MODERN WORLD HISTORY CP	10	26223	ENVIRONMENTAL SCIENCE CP	10
94653A	MODERN WORLD HISTORY	10	22413	BIOLOGY H	10
	GRADE 9 WORLD LANGUAGE			HONORS ELECTIVE RECOMMEND	ATIONS
41023	FRENCH 1 CP	10	57013	BAND H	10
41313	FRENCH 2 H	10	57513	TREBLE CHOIR H	10
41323	FRENCH 2 CP	10	57413	CONCERT CHOIR H	10
42023	SPANISH 1 CP	10	58013	ORCHESTRA H	10
43313	SPANISH 2 H	10		REQUIRED COURSE	
43323	SPANISH 2 CP	10	73024	LIFE MANAGEMENT SKILLS CP	5
48123	AMERICAN SIGN LANGUAGE 1 CP	10		SPECIAL EDUCATION	
			91001	STUDY SKILLS	10

TEACHER RECOMMENDATIONS

DUAL ENROLLMENT COURSES: All course numbers labeled with **DE** are **Dual Enrollment** courses. If you are interested in college credit, please select the **DE** course only.

DE624	DE ACCOUNTING 1	5	DE614	DE MONEY SMART	5
DE620	DE BUSINESS CAREER PATHWAYS	5	DE253	DE PLTW INTRO TO ENGINEERING	10
DE651	DE E-COMMERCE MARKETING	5	DE254	DE PLTW PRINCIPLES OF ENGINEEING	10
DE641	DE ENTREPRENEURSHIP	5	DE596	DE DIGITAL FILMMAKING	5
DE623	DE GOOGLE - ADVANCED APPS	5	DE542	DE GRAPHIC DESIGN 1	5
DE654	DE MANAGEMENT	5	DE598	DE IMPROVISATIONAL THEATER	5
DE650	DE MARKETING	5	DE597	DE INTRO TO ACTING & PLAY	5
DE615	DE MICROSOFT OFFICE CERT	5	DE538	DE INTRO TO DIGITAL PHOTOGRAPH	5
			DE546	DE MUSIC THEORY	10





ALTERNATE COURSES: In addition to the elective credits required to fill your schedule, please select an additional 4 – 6 alternate courses.

	GRADE 9 ELECTIVES						
	PRACTICAL ART	CR		FINE AND PERFORMING ART	CF		
62424	ACCOUNTING 1 CP	5	54324	ANIMATION DESIGN CP	5		
62024	BUSINESS CAREER PATHWAYS CP	5	51924	APPRECIATING THE ARTS CP	5		
81004	COMMUNICATIONS/MEDIA 1 CP	5	51124	ART SCULPTURE STUDIO CP	5		
62124	DESIGN & PRODUCTION CP	5	53924	DIGITAL PHOTOGRAPHY II CP	5		
67024	EXPLORE EARLY CHILDHOOD 1 CP	5	54224	GRAPHIC DESIGN 1 CP	5		
62324	GOOGLE ADVANCED APPS CP	5	53824	INTRO TO DIGITAL PHOTOGRAPHY CP	5		
69523 INTRO ARCHITECTURAL DRAWING & CIVIL ENGINEERING CP		10	51224	STUDIO 1 - FOUNDATION COLOR AND DRAWING CP	5		
69223	INTRO TO WOODWORKING AND DESIGN CP	10	51524	STUDIO 2 - FOUNDATION 2D AND 3D CP	5		
65424	MANAGEMENT CP	5	59024	GUITAR 1 CP	5		
65024	MARKETING CP	5	59124	ADVANCED GUITAR	5		
61424	MONEY SMART CP	5	57423	CONCERT CHOIR CP	10		
25323	PLTW: INTRODUCTION TO ENGINEERING CP	10	58224	EXPLORING POPULAR MUSIC CP	5		
25413	PLTW: PRINCIPLES OF ENGINEERING H	10	58023	ORCHESTRA CP	10		
64224	RETAIL MARKETING MANAGEMENT CP	5	57023	BAND CP	1(
69724	ROBOTICS CP	5	58324	MUSIC IN A DIGITAL WORLD CP	5		
34021	SPEECH AND DEBATE I CP	5	54623	MUSIC THEORY 1 CP	10		
81204	TV & BROADCASTING CP	5	57523	TREBLE CHOIR CP	10		
	WORLD LANGUAGE		59624	DIGITAL FILMMAKING CP	5		
41023	FRENCH 1 CP	10	59824	IMPROVISATIONAL THEATER CP	5		
43023	SPANISH 1 CP	10	59724	INTRO TO ACTING & PLAY PRODUCTION CP	5		
49023	AMERICAN SIGN LANGUAGE CP	10		WELLNESS			
	READING		76404	YOGA & FITNESS	5		
08404	READ SKILLS AND STRATEGIES	5	77124	LIFETIME SPORTS	5		

INNOVATION PATHWAYS

Innovation Pathways are open to all students starting in their freshman or sophomore years and are designed to provide coursework and experience in a specific high-demand industry.

Business and Finance Pathway: DE620 Business Career Pathways

Information Technology Pathway: 69724 Robotics

TOTAL RECOMMENDED CREDITS:

TOTAL ELECTIVE CREDITS:

TOTAL CREDITS: 70 CREDITS





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		ENGLISH	CR		GRADE 10 SOCIAL STUDIES	CR
	02013	ENGLISH 10 H	10	32513	US HISTORY 1 H	10
	02023	ENGLISH 10 CP	10	32523	US HISTORY 1 CP	10
	92133	LIT & LANG 2	10	34011	SPEECH AND DEBATE H	10
4	94063A	ENGLISH 10	10	94663A	US HISTORY 1	10
02		MATHEMATICS			WORLD LANGUAGE	
S	12233	ALGEBRA 1 CP2	10	41023	FRENCH 1 CP	10
\mathcal{O}	13213	GEOMETRY H	10	41313	FRENCH 2 H	10
of	13223	GEOMETRY CP	10	41323	FRENCH 2 CP	10
100000	13233	GEOMETRY CP2	10	41513	FRENCH 3 H	10
SS	14213	ALGEBRA 2 H	10	41523	FRENCH 3 CP	10
a	14223	ALGEBRA 2 CP	10	42023	SPANISH 1 CP	10
_	14233	ALGEBRA 2 CP2	10	43313	SPANISH 2 H	10
U	15413	AP STATISTICS	10	43323	SPANISH 2 CP	10
	94263A	MATH 10	10	43513	SPANISH 3 H	10
		SCIENCE		43523	SPANISH 3 CP	10
	22013	AP BIOLOGY	10	48123	AMERICAN SIGN LANGUAGE 1 CP	10
	22413	BIOLOGY H	10	48223	AMERICAN SIGN LANGUAGE 2 CP	10
	22423	BIOLOGY CP	10		HONORS RECOMMENDATIONS	
	24213	CHEMISTRY H	10	57013	BAND H	10
	24223	CHEMISTRY CP	10	57513	TREBLE CHOIR	10
		SPECIAL EDUCATION		57413	CONCERT CHOIR H	10
	91101	STUDY SKILLS 10	10	58013	ORCHESTRA H	10
		READING		56513	AP MUSIC THEORY	10
	95353	READING 10	10			

TEACHER RECOMMENDATIONS

TOTAL RECOMMENDED CREDITS:

TOTAL ELECTIVE CREDITS:

TOTAL CREDITS: 70 CREDITS





ALTERNATE COURSES: In addition to the elective credits required to fill your schedule, please select an additional 4 – 6 alternate courses.

	additional 4 – 6 alternate co		0 ELECTIVE	6	
	Student Reques	P 4		The second	1
	PRACTICAL ART/ELECTIVES	CR	10W. 21201	FINE & PERFORMING ART	CF
62424	ACCOUNTING 1 CP	5	59823	ADVANCED ACTING CP	10
22124	BIOTECHNOLOGY 1 CP	5	59625	ADVANCED ACTING CP	
62024	BUSINESS CAREER PATHWAYS CP	5	54324	ADVANCED GOITAR ANIMATION DESIGN CP	5
		5	54524		
61324	BUSINESS ETHICS CP	in product action gives		ANIMATION 2 CP	5
81002 65124	COMMUNICATIONS/MEDIA 1 CP	5	51924	APPRECIATING THE ARTS	
64124	E-COMMERCE MARKETING CP ENTREPRENEURSHIP CP	5	57023	ART SCULPTURE STUDIO CP	5
67024	ENTREPRENEORSHIP CP	5	57423	BAND CP CONCERT CHOIR CP	1
67424	EXPLORE EARLY CHILDHOOD 2 CP	5	59624	DIGITAL FILMMAKING CP	5
24324	FORENSIC SCIENCE CP	5	53924	DIGITAL PHOTOGRAPHY II CP	5
62324	GOOGLE ADVANCED APPS CP	5	58224	EXPLORING POPULAR MUSIC CP	5
69523	INTRO ARCHITECTURAL DRAWING & CIVIL ENGINEERING CP	10	54224	GRAPHIC DESIGN 1 CP	5
69623	INTERMEDIATE ARCHITECTURAL DRAWING & CIVIL ENGINEERING CP	10	54424	GRAPHIC DESIGN 2 CP	5
69223	INTRO TO WOODWORKING AND DESIGN CP	10	59024	GUITAR 1 CP	5
69323	INTERMEDIATE WOODWORKING AND DESIGN CP	10	59824	IMPROVISATIONAL THEATER CP	5
36224	INTRO TO CRIMINAL JUSTICE CP	5	53824	INTRO TO DIGITAL PHOTOGRAPHY CP	
	1	1			
07024	JOURNALISM CP	5	59724	INTRO TO ACTING AND PLAY PRODUCTION CP	
65424	MANAGEMENT CP	5	58224	MUSIC APPRECIATION CP	
65024	MARKETING CP	5	58324	MUSIC IN A DIGITAL WORLD CP	
61.424			E4600		
61424	MONEY SMART CP	5	54623	MUSIC THEORY 1 CP	1
17613	PLTW AP COMPUTER SCIENCE PRINCIPLES	10	58023	ORCHESTRA CP	1
25323	PLTW: INTRODUCTION TO ENGINEERING DESIGN CP	10	51224	STUDIO 1 CP	5
25413	PLTW: PRINCIPLES OF ENGINEERING H	10	51524	STUDIO 2 CP	5
17723	PROGRAMMING 1	10	51623	STUDIO 3 CP	1
07704	PUBLIC SPEAKING CP	5	57523	TREBLE CHOIR CP	1
08404	READ SKILLS AND STRATEGIES	5			
64324	RETAIL INTERNSHIP CP	5		1	
69724	ROBOTICS CP	5		WELLNESS (REQUIRED - PICK 1)	
	1	· · · · · · · · · · · · · · · · · · ·	76054		
34021	SPEECH AND DEBATE I CP	5	76354	EXERCISE AND CONDITIONING 10	
68024	STUDENT HELP DESK INTERNSHIP CP	5	77154	TEAM GAMES 10	5
68021	TECHNOLOGY TROUBLESHOOT & REPAIR CP	5	77924	WELLNESS ACTIVITIES 10	5
81201	TV & BROADCASTING CP	5		<u> </u>	
	DUAL ENROLLMENT COURSES: All cour If you are interested in college credit, please sele				
DE624	DE ACCOUNTING 1 CP	5	DE538	DE INTRO TO DIGITAL PHOTOGRAPHY CP	
DE620	DE BUSINESS CAREER PATHWAYS CP	5	DE538	DE JOURNALISM CP	5
DE613	DE BUSINESS ETHICS CP	5	DE654	DE MANAGEMENT CP	5
DE242	DE CHEMISTRY CP	10	DE650	DE MARKETING CP	5
DE596	DE DIGITAL FILMMAKING CP	5	DE615	DE MICROSOFT OFFICE CERTIFICATION 1	5
DE651	DE E-COMMERCE MARKETING CP	5	DE613	DE MORE SMART CP	5
DE641	DE ENTREPRENEURSHIP	5	DE614	DE MUSIC THEORY 1 CP	10
DE243	DE FORENSIC SCIENCE - CP	5			10
	DE GOOGLE - ADVANCED APPS - CP	5	DE176	DE PLTW AP COMPUTER SCIENCE PRINCIPLES	
DE623		dd	DE253	DE PLTW: INTRO TO ENGINEERING DESIGN CP	10
DE542	DE GRAPHIC DESIGN I CP	5	DE254	DE PLTW: PRINCIPLES OF ENGINEERING H	10
DE598	DE IMPROVISATIONAL THEATER CP	5	DE177	DE PROGRAMMING 1	10
DE597	DE INTRO TO ACTING AND PLAY PRODUCTION CP DE INTRO TO CRIMINAL JUSTICE CP	5	DE516	DE STUDIO 3	10





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			TEACH	ER RECO	MMENDED	COURSES	
			ENGLISH	CR		SOCIAL STUDIES	CR
	0401	3	AP ENGLISH LANGUAGE + COMPOSITION	10	33013	AP US HISTORY 2	10
	0301	3	ENGLISH 11 H	10	38113	AP AMERICAN GOVT & POLITICS	10
	0302	3	ENGLISH 11 CP	10	33523	US HISTORY 2 CP	10
	9253	3	LIT & LANG 3	10	34011	SPEECH AND DEBATE H	10
	9407	ЗA	ENGLISH 11	10	94673A	US HISTORY 2 CP	10
~~			MATHEMATICS			WORLD LANGUAGE	1
023	1421	3	ALGEBRA 2 H	10	41313	FRENCH 2 H	10
	1422	3	ALGEBRA 2 CP	10	41323	FRENCH 2 CP	10
ŝ.	1423	3	ALGEBRA 2 CP2	10	41513	FRENCH 3 H	10
ſ	9427	'3A	MATH 11	10	41523	FRENCH 3 CP	10
	1541	3	AP STATISTICS	10	42013	FRENCH 4 H	10
	1443	3	QUANTITATIVE REASONING	10	42023	FRENCH 4 CP	10
of 2023	1521	3	PRECALCULUS H	10	42023	SPANISH 1 CP	10
	1522	3	PRECALCULUS CP	10	43313	SPANISH 2 H	10
L	1523	3	PRECALCULUS CP2	10	43323	SPANISH 2 CP	10
	1542	3	INTRO TO STATISTICS	10	43513	SPANISH 3 H	10
			SCIENCE	T T	43523	SPANISH 3 CP	10
I	2201	3	AP BIOLOGY	10	44013	SPANISH 4 H	10
	2211	.4	BIOTECH 2 H	10	44023	SPANISH 4 CP	10
I	2301	3	ANATOMY & PHYSIOLOGY H	10	48123	AMERICAN SIGN LANGUAGE 1 CP	10
	2401	3	AP CHEMISTRY	10	48223	AMERICAN SIGN LANGUAGE 2 CP	10
	2421	3	CHEMISTRY H	10		AP AND HONORS TEACHER RECOMMENDATIONS	
	2422	3	CHEMISTRY CP	10	17513	AP COMPUTER SCIENCE A	10
	2521	.3	AP PHYSICS 1	10	56513	AP MUSIC THEORY	10
	2511	3	PHYSICS H	10	53413	AP ADVANCED ART PORTFOLIO: 2D DESIGN	10
	2522	3	PHYSICS CP	10	53513	AP ADVANCED ART PORTFOLIO 2: DRAWING	10
I	2612	3	ENVIRONMENTAL STUDIES	10	53013	HONORS ART PORTFOLIO 1 H	10
			READING		57013	BAND H	10
	9537	3	READING 11	10	57413	CONCERT CHOIR H	10
			SPECIAL EDUCATION		58013	ORCHESTRA H	10
	912	201	STUDY SKILLS	10	57513	TREBLE CHOIR H	10

DUAL ENROLLMENT COURSES: All course numbers labeled with **DE** are **Dual Enrollment** courses. If you are interested in college credit, please select the **DE** course only.

DE154	DE INTRO TO STATISTICS CP	10
DE221	DE BIOTECH 1	5
DE242	DE CHEMISTRY CP	10
DE243	DE FORENSIC SCIENCE CP	5
DE335	DE US HISTORY II CP	10
DE176	DE PLTW AP COMP SCI PRINC	10
DE177	DE PROGRAMMING 1 CP	10
DE253	DE PLTW INTRO TO ENGINEER	10
DE254	DE PLTW PRINC OF ENGINEER H	10
DE361	DE INTRO TO CRIMINAL JUSTICE	5
DE364	DE SOCIOLOGY CP	5
DE516	DE STUDIO 3 CP	10
DE538	DE INTRO TO DIGITAL PHOTO	5
DE542	DE GRAPHIC DESIGN 1 CP	5

DE546	DE MUSIC THEORY 1	10
DE596	DE DIGITAL FILMMAKING CP	5
DE597	DE INTRO TO ACTING	5
DE598	DE IMPROVISATIONAL THTR	5
DE613	DE BUSINESS ETHICS CP	5
DE614	DE MONEY SMART CP	5
DE615	DE MICROSOFT OFFICE CERT 1	5
DE620	DE BUSINESS CAREER PATHWAY	5
DE623	DE GOOGLE-ADV APPS CP	5
DE624	DE ACCOUNTING 1	5
DE641	DE ENTREPRENEURSHIP	5
DE650	DE MARKETING	5
DE651	DE E-COMMERCE MARKETING	5
DE654	DE MANAGEMENT CP	5





ALTERNATE COURSES: In addition to the elective credits required to fill your schedule, please select an additional 4 – 6 alternate courses.

	Student Requ		11 ELECTIVE ow: 2/20/2	2021 - 3/7/2021	1
	PRACTICAL ART/ELECTIVES	CR		WELLNESS (REQUIRED - PICK 1)	CR
62424	ACCOUNTING 1 CP	5	76304	STRENGTH AND CONDITIONING 11	5
06224	ANGELS, DEMONS, HEAVEN, HELL, & LAST THINGS CP	5	77624	WELLNESS ACTIVIES 11	5
22124	BIOTECHNOLOGY 1 CP	5	77824	TEAM GAMES 11	5
62024	BUSINESS CAREER PATHWAYS CP	5		FINE & PERFORMING ART	CR
61324	BUSINESS ETHICS CP	5	59823	ADVANCED ACTING CP	10
38724	CIVICS CP	5	59124	ADVANCED GUITAR	5
81002	COMMUNICATIONS/MEDIA 1 CP	5	54324	ANIMATION DESIGN CP	5
07624	CREATIVE WRITING CP	5	54524	ANIMATION 2 CP	5
65124	E-COMMERCE MARKETING CP	5	51924	APPRECIATING THE ARTS	5
64124	ENTREPRENEURSHIP CP	5	51124	ART SCULPTURE STUDIO CP	5
67024	EXPLORE EARLY CHILDHOOD 1 CP	5	57023	BAND CP	10
67424	EXPLORE EARLY CHILDHOOD 2 CP	5	57423	CONCERT CHOIR CP	10
06424	FAIRYTALES, FOLKLORE, & LEGENDS CP	5	59624	DIGITAL FILMMAKING CP	5
24324					5
	FORENSIC SCIENCE CP GOOGLE ADVANCED APPS CP	5	53924	DIGITAL PHOTOGRAPHY II CP EXPLORING POPULAR MUSIC CP	5
62324	INTRO ARCHITECTURAL DRAWING & CIVIL	5	58224	EXPLORING FOPULAR MUSIC CP	
69523	ENGINEERING CP	10	54224	GRAPHIC DESIGN 1 CP	5
69623	INTERMEDIATE ARCHITECTURAL DRAWING & CIVIL ENGINEERING CP	10	54424	GRAPHIC DESIGN 2 CP	5
69223	INTRO TO WOODWORKING AND DESIGN CP	10	59024	GUITAR 1 CP	5
69323	INTERMEDIATE WOODWORKING AND DESIGN CP	10	59824	IMPROVISATIONAL THEATER CP	
69723	ADVANCED ARCHITECTURAL & CIVIL ENGINEER CP	10	53824	INTRO TO DIGITAL PHOTOGRAPHY CP	
36224	INTRO TO CRIMINAL JUSTICE CP	5	59724	INTRO TO ACTING AND PLAY PRODUCTION CP	
07024	JOURNALISM CP	5	58224	MUSIC APPRECIATION CP	
65424	MANAGEMENT CP	5	58324	MUSIC IN A DIGITAL WORLD CP	
65024	MARKETING CP	5	54623	MUSIC THEORY 1 CP	
61524	MICROSOFT OFFICE CERTIFICATION 1 CP	5	58023	ORCHESTRA CP	
61424	MONEY SMART CP	5	51224	STUDIO 1 CP	
17613	PLTW AP COMPUTER SCIENCE PRINCIPLES	10	51524		
1/015	PLTW: INTRODUCTION TO ENGINEERING DESIGN	10	51524	STUDIO 2 CP	
25323	CP	10	51623	STUDIO 3 CP	
25413	PLTW: PRINCIPLES OF ENGINEERING H	10	57523	TREBLE CHOIR CP	13
17723	PROGRAMMING 1	10	1	WELLNESS (REQUIRED – PICK 1)	1
36824	PSYCHOLOGY 1 CP	5	66524	THE POWER OF CHOICE, CP	
36922	PSYCHOLOGY 2 CP	5	75024	REALITY CHECK 2.0	
07704	PUBLIC SPEAKING CP	5			
14433	QUANTITATIVE REASONING PROBLEM SOLVING CP	10			
08404	READ SKILLS AND STRATEGIES	5			
64324	RETAIL INTERNSHIP CP	5			
69724	ROBOTICS CP	5		1	
36424	SOCIOLOGY CP	5		-	
34021	SPEECH AND DEBATE I CP	5		1	
68024	STUDENT HELP DESK INTERNSHIP CP	5		[
68021	TECHNOLOGY TROUBLESHOOT & REPAIR CP	.5			
81201					
38424	TV & BROADCASTING CP THE HOLOCAUST & GENOCIDE STUDIES CP	5		1	k





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	7	ENGLISH	CR		SOCIAL SCIENCE	CR
	05013	AP ENGLISH 12 LIT + COMP	10	33013	AP US HISTORY	10
	06023	A SENIOR ODYSSEY CP	10	38113	AP AMERICAN GOT & POLITICS	10
	92733	LIT + LANG 4	10	37013	AP PSYCHOLOGY	10
	94083A	ENGLISH 12	10	34011	SPEECH AND DEBATE H	10
222		MATHEMATICS		38813	INTERNATIONAL RELATIONS H	10
1	15413	AP STATISTICS	10		AP RESEARCH	10
Student 2022	14433	QUANTITATIVE REASONING	10		AP SEMINAR	10
o N	15213	PRECALCULUS H	10		WORLD LANGUAGE	
D N	15223	PRECALCULUS CP	10	42913	AP FRENCH LANG & CULTURE	10
2 2	15233	PRECALCULUS CP2	10	41523	FRENCH 3 CP	10
2 0	15423	INTRO TO STATISTICS CP	10	42013	FRENCH 4 H	10
5 0	16313	AP CALCULUS AB	10	42023	FRENCH 4 CP	10
n	16413	AP CALCULUS BC	10	44913	AP SPANISH LANG & CULTURE	10
of Jo	16523	CALCULUS CP	10	43523	SPANISH 3	10
N O		SCIENCE		44013	SPANISH 4 H	10
- v	22013	AP BIOLOGY	10	44023	SPANISH 4 CP	10
e s		BIOTECH 2 H	5	48123	AMERICAN SIGN LANGUAGE 1CP	10
0 5	23013	ANATOMY & PHYSIOLOGY H	10	48223	AMERICAN SIGN LANGUAGE 2 CP	10
uradı Cla	24013	AP CHEMISTRY	10	AP AND	HONOR TEACHER RECOMMENDATIONS	
	25113	PHYSICS CP	10	17513	AP COMPUTER SCIENCE A	10
	25013	AP PHYSICS C	10	56513	AP MUSIC THEORY	10
F	26013	AP ENVIRONMENTAL SCIENCE	10	53413	AP ADV ART PORTFOLIO: 2D DESIGN	10
	26123	ENVIRONMENTAL STUDIES	10	53513	AP ADV ART PORTFOLIO" DRAWING	10
		READING		53013	HONORS ART PORFOLIO	10
	95383	READING 12	10	57013	BAND H	μo
		SPECIAL EDUCATION		57413	CONCERT CHOIR H	10
	91301	STUDY SKILLS 12	10	58013	ORCHESTRA H	10
				57513	TREBLE CHOIR H	10

TEACHER RECOMMENDATIONS

DUAL ENROLLMENT COURSES: All course numbers labeled with DE are Dual Enrollment courses. If you are interested in college credit, please select the DE course only.

DE060	DE SENIOR ODYSESSY	10
DE070	DE JOURNALISM	5
DE154	DE INTRO TO STATISTICS CP	10
DE221	DE BIOTECH 1	5
DE242	DE CHEMISTRY CP	10
DE243	DE FORENSIC SCIENCE CP	5
DE335	DE US HISTORY II CP	10
DE176	DE PLTW AP COMP SCI PRINC	10
DE177	DE PROGRAMMING 1 CP	10
DE253	DE PLTW INTRO TO ENGINEER	10
DE254	DE PLTW PRINC OF ENGINEER H	10
DE361	DE INTRO TO CRIMINAL JUSTICE	5
DE364	DE SOCIOLOGY CP	5
DE516	DE STUDIO 3 CP	10
DE538	DE INTRO TO DIGITAL PHOTO	5

DE542	DE GRAPHIC DESIGN 1 CP	5
DE546	DE MUSIC THEORY 1	10
DE596	DE DIGITAL FILMMAKING CP	5
DE597	DE INTRO TO ACTING	5
DE598	DE IMPROVISATIONAL THTR	5
DE613	DE BUSINESS ETHICS CP	5
DE614	DE MONEY SMART CP	5
DE615	DE MICROSOFT OFFICE CERT 1	5
DE620	DE BUSINESS CAREER PATHWAY	5
DE623	DE GOOGLE-ADV APPS CP	5
DE624	DE ACCOUNTING 1	5
DE641	DE ENTREPRENEURSHIP	5
DE650	DE MARKETING	5
DE651	DE E-COMMERCE MARKETING	5
DE654	DE MANAGEMENT CP	5
DE071	WRITING FOR COLLEGE	5

TOTAL RECOMMENDED CREDITS:

TOTAL ELECTIVE CREDITS:

TOTAL CREDITS: 70 CREDITS





ALTERNATE COURSES: In addition to the elective credits required to fill your schedule, please select an additional 4 – 6 alternate courses.

DUAL ENROLLMENT COURSES: All course numbers labeled with DE are Dual Enrollment courses. If you are interested in college credit, please select the DE course only.

	PRACTICAL ART/ELECTIVES	CR	38424	THE HOLOCAUST & GENOCIDE STUDIES CP	5
62424	ACCOUNTING 1 CP	5	68024	TECHNOLOGY TROUBLESHOOT & REPAIR C#	5
39124	AMERICAN HISTORY THRU FILM CP	5	81204	TV & BROADCASTING CP	5
06113	ANGELS, DEMONS, HEAVEN, HELL	5	07121	WRITING FOR COLLEGE	5
				FINE & PERFORMING ART	CR
22124	BIOTECHNOLOGY 1 CP	5	59823	ADVANCED ACTING CP	10
62024	BUSINESS CAREER PATHWAYS CP	5	59124	ADVANCED GUITAR	5
38724	CIVICS	5	54324	ANIMATION DESIGN CP	5
81002	COMMUNICATIONS/MEDIA 1 CP	5	54524	ANIMATION 2 CP	5
07624	CREATIVE WRITING	5	51924	APPRECIATING THE ARTS	5
62124	DESIGN & PRODUCTION CP	5	51124	ART SCULPTURE STUDIO CP	5
67024	EXPLORE EARLY CHILDHOOD 1 CP	5	57023	BAND CP	10
67424	EXPLORE EARLY CHILDHOOD 2 CP	5	57423	CONCERT CHOIR CP	10
67623	EXPLORING EARLY CHILDHOOD 3	10	59624	DIGITAL FILMMAKING CP	5
06424	FAIRYTALES, FOLKLORE AND LEGENDS - CP	5	53924	DIGITAL PHOTOGRAPHY II CP	5
24324	FORENSIC SCIENCE CP	5	58224	EXPLORING POPULAR MUSIC CP	5
62324	GOOGLE ADVANCED APPS CP	5	54224	GRAPHIC DESIGN 1 CP	5
69523	INTRO ARCHITECTURAL DRAWING CP	10	54424	GRAPHIC DESIGN 2 CP	5

59623	INT ARCHITECTURAL DRAWING CP	10	59024	GUITAR 1 CP	5
69723	ADVANCED ARCHITECTURAL DRAWING	10	59824	IMPROVISATIONAL THEATER CP	5
69223	INTRO TO WOODWORKING AND DESIGN CP	10	59724	INTRO TO ACTING AND PLAY PRODUCTION CP	5
69523	INTERMEDIATE WOODWORKING AND DESIGN CP	10	53824	INTRO TO DIGITAL PHOTOGRAPHY CP	5
69423	ADVANCED WOODWORKING AND DESIGN CP	10	51224	STUDIO 1 CP	5
15423	INTRO TO STATISTICS CP	10	51524	STUDIO 2.CP.	5
48124	INTRO TO AMERICAN SIGN LANGUAGE 1 CP	5	51623	STUDIO 3 CP	10
48224	INTRO TO AMERICAN SIGN LANGUAGE 2 CP	5	58224	MUSIC APPRECIATION CP	5
07024	JOURNALISM CP	5	58324	MUSIC IN A DIGITAL WORLD CP	5
65424	MANAGEMENT CP	5	54623	MUSIC THEORY 1 CP	10
65024	MARKETING CP	5	58023	ORCHESTRA CP	10
61424	MONEY SMART CP	5	57523	TREBLE CHOIR CP	10
17613	PLTW AP COMPUTER SCIENCE PRINCIPLES	10			
25323	PLTW: INTRODUCTION TO ENGINEERING DESIGN CP	10			1
25413	PLTW: PRINCIPLES OF ENGINEERING H	10			
07704	PUBLIC SPEAKING CP	5	1	WELLNESS (REQUIRED - PICK 1)	
36824	PSYCHOLOGY 1 CP	5	66524	THE POWER OF CHOICE, CP	5
36922	PSYCHOLOGY 2 CP	5	75024	REALITY CHECK 2.0	5
14433	QUANTITATIVE REASONING CP	10		WELLNESS(OPTIONAL)	
08404	READ SKILLS AND STRATEGIES	5	76204	ADVANCED PHYSICAL EDUCATION	5
64224	RETAIL MARKETING MANAGEMENT CP	5	77524	TECHNIQUES & PRINCIPLES IN ATHLETIC TRAINING	5
64324	RETAIL INTERNSHIP CP	5	77724	UNIFIED PHYSICAL EDUCATION	5
69724	ROBOTICS CP	5			
34021	SPEECH AND DEBATE I CP	5	1		1
36424	SOCIOLOGY	5			1
68024	STUDENT HELP DESK INTERNSHIP CP	5	1		1