

Chelmsford High School



Dual Enrollment and Associate Degree Student/Family Information Guide



Chelmsford High School

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Mr. Stephen Murray, Principal

Ms. Christina Mitza, Dean

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Dear Students and Families,

Over the last 5 years, Chelmsford High School has developed a strong and collaborative partnership with Middlesex Community College to enhance programming opportunities for our students. Our professional staff of teachers includes a number of individuals who hold adjunct faculty status with MCC, allowing students to earn college credit on our campus with these highly qualified instructors. The number of instructors and courses offered at CHS is unique, giving Chelmsford students opportunities that other schools cannot yet replicate.

In addition to a number of PLTW and AP courses at CHS where students can earn college credit, we offer three tiers of early college access based on the interests of students: **1 credit courses, Dual Enrollment, and an Associate Degree Path.**

1 Credit courses: To support initial preparedness for high school and college coursework, all 9th grade students may register for an online, self-paced 1 credit course, Career and College Exploration I, which aligns to MCC IDS 101. Sophomores who have completed the first course may register for Career and College Exploration II, the second self-paced course, which aligns with MCC IDS 106. Students will not incur any costs for these 1 credit courses as they are funded through a grant provided by Middlesex Community College.

Dual Enrollment: Eligible CHS students can register for Dual Enrollment courses approved by a local partnering college while they are still attending Chelmsford High School. Credit for these courses applies both to Chelmsford High School and Middlesex Community College transcripts. Since our initial offerings in SY2019, Dual Enrollment programming at CHS has grown considerably and we now offer over 30 different courses for DE credit for students in grades 9-12. Students will request these courses during the CHS scheduling process and will register with MCC once the semester of enrollment begins. Students are responsible for the cost of college credits, which is offered at a **significantly discounted rate**. For more information about Dual Enrollment benefits, eligibility and requirements, please review our Dual Enrollment FAQ on the CHS website. Look for the MCC icon next to the course descriptions throughout the [Program of Studies](#) of already approved courses. On a yearly basis, we look to add more courses to our DE program and more may become available as MCC approves them.

Associate Degree Path: Due to the number of course offerings at CHS students have the opportunity to complete the majority of their coursework (60 credits) towards a Liberal Arts and Sciences Associate Degree. Students will need to work closely with their guidance counselor and the Career and College Readiness Facilitator to follow a [prescribed path of course](#) that allows for completion of the required courses by the end of Senior year. Students/families are responsible for the cost of each of the dual enrollment courses towards the degree.

We recognize the increasing costs associated with a college education and have established these programs to not only enhance academic opportunities for our students but to also provide ways to reduce the overall cost of a degree for our students.

Please review this handbook to learn more about our early college access programming. Further information can be found on our [website](#) and/or by contacting our [Career and College Readiness Center](#).

Sincerely,

Stephen D. Murray

Table of Contents

[MISSION STATEMENT](#)

[EARLY ACCESS TO COLLEGE PROGRAMMING](#)

[3 TYPES OF EARLY ACCESS PROGRAMMING](#)

[MASS TRANSFER](#)

[ADMISSIONS](#)

[TUITION & FEES](#)

[STUDENT SUPPORTS](#)

[CHANGE OF PROGRAMMING](#)

[PRELIMINARY COLLEGE COURSE OFFERINGS](#)

[DUAL ENROLLMENT COURSE OFFERINGS](#)

MISSION STATEMENT

Our mission is to cultivate inspired, creative, and well-rounded lifelong learners who possess the integrity and self-direction necessary to be contributing community members.

The Chelmsford Public Schools provide all students with multiple **pathways** to optimize their own potential for academic excellence, leadership, and social and emotional wellness.

Chelmsford High School pursues opportunities for the development of college and career pathways designed to build the competencies and foundational knowledge necessary for future success in a variety of industries.

EARLY ACCESS TO COLLEGE PROGRAMMING

In addition to our robust Advanced Placement course offerings, **Dual Enrollment courses and the Associate Degree Path** are designed to create strong partnerships with our public institutions of higher education in order to expose students to the academic rigors of college while they are still in high school. The design of our offerings is modeled on the 5 principles of Massachusetts Department of Education Innovation Pathways and Early College programs.



EQUITABLE ACCESS



GUIDED ACADEMIC PATHWAYS



ENHANCED STUDENT SUPPORT



CONNECTION TO CAREER



EFFECTIVE PARTNERSHIPS

Equitable Access: Dual Enrollment courses and the Associate pathway is offered to all CHS students who meet the eligibility requirements. Over 90% of the courses are offered on the Chelmsford High School campus, removing transportation as a barrier to access. We are committed to exploring and identifying opportunities to partner with local businesses and associations to help us find ways in which to reduce the overall cost of the programming.

Guided Academic Pathways: Students are eligible to register for any of our dual enrollment offerings as long as they meet the identified requirements of the course. Students may opt to take 1, 2 or more courses for dual enrollment credit in any subject area offered. We can also provide students with a prescribed path towards an Associate Degree in Liberal Arts and Sciences. Additionally, several DE courses can be bundled together to start students on a career path of interest or simply exploration such as Criminal Justice and Education. Please see the Career and College Readiness Facilitator for more information on specific pathway programming.

Enhanced Student Supports: Students will be guided through the process with the help of their guidance counselor and the Career and College Readiness Facilitator. In addition to the traditional support services provided by CHS, students who enroll in any of our DE courses gain access to a wealth of resources offered by and on the Middlesex Community College campuses in Lowell, Bedford and online. These resources may include the ACE program for tutoring, the SASS program for disability services, and all access to the librarians and resources of the Middlesex Community College library.

Connection to Career: CHS is committed to expanding our partnerships with local businesses in order to facilitate learning and skill development that will support a vibrant local economy for years to come. Our Career and College Readiness Facilitator works with local industry to establish workshop and internship opportunities to help students explore and engage in a number of fields of interest.

Effective Partnerships: Chelmsford High School and Middlesex Community College have worked together for the past 5 years to build a dual enrollment program like no other in the state. Our expert secondary teachers are vetted and identified as highly qualified adjunct faculty for MCC. They have access to the resources, supports and professional development opportunities that their peers on campus have, enriching opportunities for all students at CHS.

3 TYPES OF EARLY ACCESS PROGRAMMING

1 CREDIT INTRODUCTORY COURSES: College and Career Exploration I and College and Career Exploration II are online self-paced courses through the Edgenuity platform. Students will learn essential student success skills, behaviors, and habits of mind that can be applied to increase success now and in the future. Both College and Career Exploration I & II are FREE of charge for CHS students through our partnership with Middlesex Community College.

DUAL ENROLLMENT: Dual enrollment courses allow students to make progress towards their high school graduation requirements AND earn college credits at the same time. Approved courses taught at and by Chelmsford High School faculty who also serve as Adjunct faculty for Middlesex Community College. Students who are enrolled in the specified DE courses at CHS may register and pay for College Credit from Middlesex Community College.

CHS currently offers 2 guided academic pathways that allow students to earn between 12-25 credits towards an associate degree in Criminal Justice and Education.

ASSOCIATE DEGREE PATH: CHS students who would like to earn the 61-63 college credits towards an [Associate Degree in Liberal Arts and Sciences](#) may do so by following the prescribed course of study outlined in appendix A, register and pay for each of the required courses, and apply for the Associate Degree in the Spring of their junior year or fall of their senior year.

MASS TRANSFER

All state colleges and universities in Massachusetts have an agreement that allows students to earn credits and/or an associate degree at a Massachusetts community college and transfer those credits to the 4 year institution. Students can begin to earn credits at a local community college or through a dual enrollment program and then transfer those credits towards their bachelor degree at these **public institutions**. Some private schools will accept credits earned as well but you will need to directly communicate with the admissions/registrar office at any private or out of state institution you wish to attend. For more information regarding the Mass Transfer program and additional college savings opportunities, please visit the [Mass Transfer website](#).

ADMISSIONS

1 Credit Introductory Courses: 9th grade students who wish to enroll in Career and College Exploration I and 10th grade students who wish to enroll in Career and College Exploration II may do so January each year. Students will access the course through Edgenuity and complete tasks in SCOIR. To register, students will need to:

- Complete [THIS APPLICATION](#)
- Complete [THIS COURSE REGISTRATION](#) form
- Complete the MULTIPLE MEASURES form for [ENGLISH](#)
- Request a TRANSCRIPT from their high school Guidance Counselor
- Turn COMPLETE Dual Enrollment forms into Alex Cunningham in the Career Center.

Dual Enrollment: Students in good standing* are eligible to register for any Dual Enrollment course offered at CHS as long as they meet the grade level and pre-requisite requirements for the course. For more information about specific courses, please refer to the CHS Program of Studies. The first time a student registers for a Dual Enrollment course, they will need:

- Complete [THIS APPLICATION](#)
- Complete [THIS COURSE REGISTRATION](#) form
- Complete the MULTIPLE MEASURES form for [ENGLISH](#) and/or [MATH](#) (course dependent)
- Request a TRANSCRIPT from their high school Guidance Counselor
- Turn COMPLETE Dual Enrollment forms into Alex Cunningham in the Career Center.
- After the initial enrollment, students will ONLY need to complete a Course Registration form for every dual enrollment class they take following their first.

Associate Degree Path Enrollment: Students interested in committing to earning 60 credits towards an Associate Degree in Liberal Arts and Sciences while earning their high school diploma must take the following steps *prior to second semester of 10th grade*:

- Meet with Guidance Counselor, Career and College Readiness Facilitator and parent/guardian.
- Complete [THIS ASSOCIATE DEGREE INTEREST FORM](#).
- Follow the steps above for all Dual Enrollment courses.
- Seniors in the Associate Degree Pathway will need to complete an MCC Application applying for Middlesex Community College Associate's degree in Liberal Arts & Sciences.

Students who intend on applying or would like more information about the path and acceptance criteria can set up a meeting with the College and Career Readiness Facilitator, Alex Cunningham by emailing: cunninghamalex@chelmsford.k12.ma.us. The Associate Degree interest form will be available to all students in grades 9-10 in early January.

*Students are eligible to apply and participate in early college access programs when they are in good standing. A student in good standing has a minimum gpa of 2.0, no more than 6 unexcused absences per semester, and no violations of the [student handbook](#) and/or [honor code](#) (p.41). Continued participation in the program also requires that students do not violate the [Middlesex Community College Code of Conduct](#).

TUITION & FEES

Students/families are responsible for the cost of all dual enrollment courses after a student registers with Middlesex Community College. Billing and payment are handled by Middlesex Community College and CHS is not responsible for communications regarding billing and payment. There are NO fees for these classes. However, tuition costs \$126 per credit. Most classes offered at CHS are 3 credits or \$378 total. Some of the science courses are 4 credit classes and will cost \$504 total. The cost of tuition is subject to change annually. For more information regarding billing and payment with [MCC, please contact the student accounts department](#).

Payments must be made in entirety before enrolling in subsequent dual enrollment classes.

Enrollment in either of our 1 credit courses- IDS 101 (Career and College Readiness I) or IDS 106 (Career and College Readiness II) is free to students. Middlesex Community College uses grant funding to pay the tuition costs for these courses only.

While students are in high school, they are not eligible for financial aid. We are committed to work with local businesses and associations to find alternative sources of funding that may help reduce the costs of courses for individual students and their families. However, at this time, there is no grant or scholarship funding in place.

DUAL ENROLLMENT COST COMPARISON *based on Massachusetts Residency

Institution	Cost per Credit	Total cost (including fees)
CHS/MCC Dual Enrollment	\$126	3 credit course: \$378 4 credit course: \$ 504 *There are no fees for DE courses
UMass Lowell	\$385.00	3 credit course:\$1155.00 4 credit course: \$1540.00. *Includes registration and fees
UMass Amherst	\$708.50	3 credit course:\$2125.50 4 credit course: \$2834.00

***Pricing is based on the 23-24 academic year and is subject to change**

ASSOCIATES' DEGREE COST COMPARISON *based on Massachusetts Residency

Institution	Cost per Credit	Total cost (estimates-may not include all fees)
CHS/MCC Dual Enrollment	\$126	Based on 60-63 credits \$7560-\$7938
UMass Lowell	\$385.00	\$23,100 (does NOT include housing/meal plan-based on 2 years to complete 60 credits)
UMass Amherst	\$708.50	\$42,510 (does not include housing/meal plan-based on 2 years to complete 60 credits)

***Pricing is based on the 24-25 academic year and is subject to change**

STUDENT SUPPORTS

Contacts

Students and their families will have access to a wide range of support services. The following individuals will support the experience and will serve as the point person for various needs.

Role	Description
CHS Career and College Readiness Facilitator	The lead individual and point of contact working with students who are enrolled in the Associate Degree Path at CHS.
CHS Guidance Counselors	Guidance Counselors are also involved in the career and college readiness process and are a great asset to the students. Students in the Early Access Programming will meet with their counselors regularly. Guidance Counselors have the best understanding of how to utilize SCOIR to keep record of accomplishments towards the pathway as well as what still needs to be completed. Guidance will work with their students and families to support their use of the platform to help guide their work throughout the entirety of the pathway experience.
CHS Teachers/Adjunct	Teachers of courses tied to each of the Early Access programs will also be a significant source of support for students and families. Teachers have a list of each student in the

Instructors	cohort connected to their department so that they may regularly check in with students in their pathway required courses. In addition to individual extra help sessions, our schedule includes a PRIDE block during the school day. PRIDE is a dedicated time for students to connect with teachers for additional support, questions or feedback.
CHS Special Services Teachers	If assigned, Special Services Teachers support individual students participating in the program including Special Education students and English Language Learners. These individuals are constantly monitoring the progress of their students in their academic classes and communicate regularly with other teachers who support the students as well as with the students and their families concerning student progress towards goals. Students will have expanded access to student services available through Middlesex Community College (see the SASS program description below).
MCC SASS Program	The collegiate experience at Middlesex, on the campus and in the classroom, is open to students of varying abilities and levels of adaptive skills. Supportive faculty and staff as well as fellow students encourage all students to participate in extracurricular and class activities. The SASS office provides services and resources to empower each student to attain the highest level of academic success and learning independence.
MCC College Advisor	Assistant Director of Admissions: Kristie Faletra Faletrak@middlesex.mass.edu Director of Concurrent and Dual Enrollment: Melissa Chandonnet: Chandonnetm@middlesex.mass.edu
MCC ACE Program	The Academic Centers for Enrichment (ACE) provide individual and group tutoring and study skills support, both online and in person. The ACE department also provides Supplemental Instruction (SI) for most STEM, Health, English Language Learners (ELL), and English Composition I courses. Supplemental Instruction (SI) Leaders provide weekly study groups for students enrolled in targeted science, computer science, engineering and mathematics (also known as STEM) courses.

Supports Available to All Students

In addition to the specialized support systems within the Early Access Program, Chelmsford High School utilizes a house system to organize students into three houses for the purpose of scheduling and support. Within each house, there are two guidance counselors and one dedicated psychologist. All students have access to a PLUS block multiple times a week in which they can connect with the same teacher over their 4 years at CHS, building relationships and having time built in their day to debrief, catch up on assignments, and learn more about their school community. Several PRIDE blocks are also built into the weekly schedule, allowing time for extra help or support in any course. Additionally, teachers provide additional help sessions after school on a weekly basis.

MYCAP Information

All students at Chelmsford High School begin their road to college and career readiness their freshman year. This is achieved through the freshman health class where students meet with their guidance counselor to receive their login information for SCOIR. SCOIR is a career and college readiness tool that assists students with researching colleges, careers, scholarships, financial aid information, colleges with disability service programs. Students and parents have access to SCOIR for all four years of their high school career. Students meet with their counselor in group and individual settings over their four years to go over necessary graduation requirements, career and post high school planning as well as specific application assistance depending on

what the student wants to do after high school. Guidance counselors also work with students to ensure post-secondary planning is aligning with course load and selection.

All students have access to the Career and College Center. The Career and College Center will sponsor a variety of workshops, programs, information sessions, etc. for all grade levels throughout the school year. Annual events include College Admissions Counselor Visits, Reverse College Day, NACAC College Fair, Options Fair, career and college panels and speakers. Students can also set up one on one meetings for resume, interview and cover letter support as well as career and college guidance.

Students who wish to complete their Associate Degree will have an individualized MYCAP plan which outlines the course requirements for each year along with additional programming and support from MCC that will ensure successful completion of their Associate Degree by the end of their senior year.

CHANGE OF PROGRAMMING

The following steps only apply to dual enrollment coursework in which a student has registered for dual enrollment credit with Middlesex Community College. Standard procedures for adding/withdrawing from all other courses at CHS are outlined in the [CHS student/family handbook](#).

A) Withdrawing from a Dual Enrollment Course

After completed registration has occurred with Middlesex Community College and students need to withdraw from a Dual Enrollment course, the student must:

1. Communicate with their DE course instructor and guidance counselor that they need to withdraw from the dual enrollment course.
2. Communicate with the Career and College Facilitator who will then inform Middlesex Community College.
3. Complete and submit an MCC Registration Withdrawal form signed by the parent, guidance counselor and student. **Refunds will not be issued for withdrawals after 10/30/24 for the fall/full year course or 3/12/25 for the spring semester courses.**
4. Refer to [Middlesex Community College's policies on withdrawals and refunds](#) or payment reductions for specific requirements. Please be aware of specific deadlines for the withdrawal process.

B) Pausing or Withdrawing from the Associate Degree Path

If the student has not officially applied to Middlesex Community Colleges' Associate Degree Program, the student simply needs to follow the steps described above to withdraw from any current dual enrollment course.

If a student chooses to withdraw their dual enrollment registration within the program or pause/withdraw from the Associate path they must

1. Meet with their school counselor and the Career and College Readiness Facilitator to complete an exit interview.
2. Notify the College in writing, in person, online or by calling 1-800-818-3434. Official Withdrawal forms are available at each campus Student Information Center or by emailing withdrawal@middlesex.mass.edu Refunds are only issued to students who withdraw courses by the posted schedule adjustment deadlines.

APPENDIX

A. [Sample Schedule \(grades 9-12\) for the Associate Degree](#)

B. PRELIMINARY COLLEGE COURSE OFFERINGS

FREE INTRODUCTORY 1 CREDIT COURSES:
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Both IDS 101 and IDS 106 are required for students who have applied to complete their Associate Degree. The courses are open to all students in grades 9 and 10 who are interested in earning college credit. CHS does not provide credit for these courses.

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

MCC 1 First Year Experience IDS 101

[Syllabus Career and College Exploration I](#)

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 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.

Grade 10: Career and College Exploration II (1 credit)

MCC Career Exploration IDS 106

[Syllabus Career and College Exploration II](#)

Beginning in the fall of 2023, this online course is for all sophomores and juniors who have successfully completed Career and College Exploration I. Students can work through this self-paced course during their PLUS Block. This course will introduce students to the main components of identifying interests aligned with career paths. Through self-assessment, students will explore their work interests, personality, skills, values and life goals in order to find purpose in their academic curriculum. This course will include career 10 mapping and organization research to formulate a real-world perspective on current jobs and the requirements needed to achieve them. Students will self-assess their competency with MCC's Institutional Student Learning Outcomes (ISLOs) and engage with CHS and MCC's academic, student support and co-curricular services, along with other resources, to develop and strengthen skills and abilities.

DUAL ENROLLMENT COURSE OFFERINGS

ARTS:

INTRODUCTION TO DIGITAL PHOTOGRAPHY – CP (DE)

CHS: 5 Credits (#53824) Open to Grades 9-12

MCC: 3 Credits (Introduction to Digital Photography ART 144)

[Introduction to Digital Photography Syllabus](#)

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

STUDIO 3 – CP (DE)

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

MCC: 3 Credits (Drawing I ART 121)

[Studio 3 Syllabus](#)

In Studio 3, students will continue to develop their artistic skills while expressing their own ideas and creating work that is both personal and follows project guidelines. Students will create both 2-dimensional and 3-dimensional work with a variety of materials including drawing mediums, watercolor, acrylic, collage, printmaking, clay, etc.

Prerequisite: Studio 2(#51524)

BUSINESS:

BUSINESS & CAREER PATHWAYS—CP, (DE)

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

MCC: 3 Credits (Introduction Business BUS 110)

[Syllabus Business Career Pathways DE](#)

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

MICROSOFT OFFICE CERTIFICATION- CP (DE)

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

MCC 3 Credits (Microsoft Office CAP 101)

[Syllabus Microsoft Office Certification](#)

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 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*

MONEYSMART - CP (DE)

CHS 5 Credits (#61424) Open to Grades 9-12

MCC 1 Credit (Gen. Ed. Sem. Money Matters IDS 120)

[Syllabus for Money Smart DE](#)

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

ACCOUNTING 1— CP (DE)

5 Credits (#62424) Open to Grades 9-12

MCC 3 Credits (Financial Account BUS 221)

[Syllabus Accounting DE](#)

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 the DECA team and competition.

Prerequisites: No prerequisite for CHS Credit. Prerequisite for DE Credit is Microsoft Office Certification course #61524

MARKETING –CP (DE 5 Credits (#65024) Open to Grades 9-12

MCC 3 Credits (Principles of Marketing BUS 240)

[Syllabus Marketing DE](#)

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 (DE)

5 Credits (#65424) Open to Grades 9-12

MCC 3 Credits (Principles of Management BUS 210)

[Syllabus Management DE](#)

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

E-COMMERCE MARKETING - CP (DE)

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

MCC 3 Credits (E-Commerce Marketing BUS 141)

[Syllabus E-Commerce Marketing](#)

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

ENTREPRENEURSHIP - CP (DE)

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

MCC 3 Credits (Introduction to Entrepreneurship BUS 130)

[Syllabus Entrepreneurship](#)

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

COMPUTER TECHNOLOGIES:

PLTW: INTRODUCTION TO ENGINEERING DESIGN - CP, H (DE)

CHS 10 Credits (#25323) Open to Grades 9-12

MCC 3 Credits (Engineering EGR 101)

[Syllabus PLTW Introduction to Engineering Design](#)

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

ENGLISH:

ENGLISH 11 - CP (DE)

10 Credits (#03013, #03023)

MCC 3 Credits (Modern American Literature ENG 161)

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. English 11CP may be taken for Dual Enrollment credit, (Prerequisite: Teacher Recommendation or Department Coordinator-approved override required for English 11H)

MODERN WORLD LITERATURE- CP

CHS10 Credits (#05023)

MCC 3 Credits (Modern World Literature ENG 141)

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.

WRITING FOR COLLEGE-CP

5 Credits (#07121), Open to Grades 10, 11, and 12

[MCC 3 Credits \(English 101 ENG 101\)](#)

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.

JOURNALISM-CP

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

MCC 3 Credits (Introduction to Journalism COM 150)

[Journalism Syllabus](#)

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 course will focus primarily on journalistic writing for newspaper and magazine, students will investigate 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

FAMILY AND CONSUMER SCIENCES:

CHILD GROWTH AND DEVELOPMENT - CP

CHS 5 Credits (#67024)

MCC Credits 3 (Child Growth and Development EDU 122)

[Child Growth & Development Syllabus](#)

This course provides a chronological overview of the theory and principles of child growth and development from birth through age twelve, exploring the interrelationships between theory, research, and practice. Students will also learn about understanding children with special needs and keeping young children safe and healthy. The focus of this course is to prepare the student with knowledge of growth and development to enhance their ability to provide educational experiences. This course is especially designed for students interested in pursuing course work or careers in education, health, or human services fields. Throughout the course, students will work, on a rotating basis, in the in-house preschool, Lion's Pride North. Students who are 17 & 18-years-old will be asked to fill out a C.O.R.I. form before they begin working with the young children. This course is considered a practical art.

DISCOVER TEACHING - CP

CHS 5 Credits (#67424)

MCC Credits 3 (Discover Teaching EDU 150)

[Discover Teaching Syllabus](#)

This course will explore the major aspects of teaching and learning, and is intended to help students decide if they want to pursue a career in Prek-12 education. Course topics will focus on the field of education as it relates to curriculum development, lesson planning, assessment, licensure as well as an overview of historical and theoretical foundations of education. Students will be introduced to the curricula used in the Chelmsford Public Schools: Math Expressions, Foundations, and Fountas and Pinnell. Included will be discussions around diversity, equity, and inclusion and will provide students with time to combine classroom instruction with hands-on participation working with preschool children in the Lion's Pride North Preschool (our in-house preschool). Students who are 17 & 18-years-old will be asked to fill out a C.O.R.I. form before they begin working with the young children.

Prerequisite: Successful completion of Child Growth and Development.

SUPERVISED EDUCATION PRACTICUM AND SEMINAR- CP

CHS 10 Credits (#67623)

MCC Credits 3 (Introduction to Early Childhood Education EDU 100)

[Practicum Syllabus](#)

In this full-year field-based practicum, students will progress from observing, to working with individuals and small groups, to applying what has been learned through coursework and fieldwork experiences in a Prek-8 classroom within the Chelmsford Public Schools. With the help of the supervising teacher and by working with the students in their chosen classroom, students will gain a more comprehensive understanding of the day-to-day operations of teaching. In this course, students will have an opportunity to talk with current educators and administrators in the field of education to broaden their knowledge and help support them in their next steps. The seminar portion of the course will serve as an open forum to self-assess, discuss, and reflect what has been learned from practicum experiences. This course is especially designed for students interested in pursuing course work or careers in education, health, or human services fields. Students who are 17 & 18-years-old will be asked to fill out a C.O.R.I. form before they begin working with children in the classroom.

Prerequisite: Discover Teaching

HEALTH:

NUTRITION: THE POWER OF CHOICE - CP (DE)

CHS 5 Credits (#66524)

MCC 3 Credits (Nutrition BIO 108)

[Nutrition Syllabus](#)

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 53 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

MATH:

INTRODUCTION TO STATISTICS – CP (DE)

CHS 10 Credits (#15423), Grades 11 + 12

MCC 3 Credits (Statistics MAT 177)

[Syllabus Introduction to Statistics](#)

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

SCIENCES:

CHEMISTRY—H, CP (DE)

CHS 10 Credits (#24213, #24223), Grades 10 + 11, Lab-based

MCC 4 Credits (Introduction to Chemistry CHE 121)

[Syllabus for Chemistry CP \(DE\)](#)

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.

Prerequisite: None

BIOTECHNOLOGY I CP (DE)

CHS 5 Credits (#22124), Grade 10, 11, 12

MCC 3 Credits (Introduction to Biology BIO 120)

[Syllabus Biotechnology](#)

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. A “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

Prerequisite: A Biology Course

ENVIRONMENTAL STUDIES - CP (DE)

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

MCC 4 Credits (Environmental Studies ENV 115)

[Syllabus Environmental Studies](#)

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

FORENSIC SCIENCE CP (DE)

CHS 5 Credits (#24324), Grades 10-12 Lab-based

MCC 4 Credits (Forensic Science SCI 130)

[Syllabus Forensic Science CP](#)

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*

SOCIAL SCIENCES:

INTERNATIONAL RELATIONS—H (DE)

CHS 10 Credits (#38813), Grade 12

MCC 3 Credits (International Policy GOV 115)

[Syllabus International Relations](#)

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. Students must successfully complete US History II or APUSH to take this course.

INTRODUCTION TO CRIMINAL JUSTICE CP (DE)

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

MCC 3 Credits (Introduction to Criminal Justice CRJ 111)

[Syllabus Introduction to Criminal Justice](#)

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.

Pre-requisites: Completion of World History

SOCIOLOGY CP (DE)**CHS 5 Credits (#36424), Grade 11 + 2****MCC3 Credits (Introduction to Sociology SOC 101)**[Syllabus Introduction to Sociology](#)

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.

Pre-requisites: Completion of both World History and US I

UNITED STATES HISTORY I - CP (DE)**CHS 10 Credits (#32523), Grade 10)****MCC 3 Credits (United States Before 1876 HIST 121)**[Syllabus US History I](#)

In United States History 1, students examine the historical and intellectual origins of the United States from 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. 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 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.

Pre-requisites: Completion of World History

UNITED STATES HISTORY II - CP (DE)**CHS 10 Credits (#33523), Grade 11****MCC 3 Credits (United States After 1876 HIST 122)**[Syllabus US History II](#)

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.

Pre-requisites: Completion of World History and US History I

WORLD LANGUAGE:**FRENCH 4****10 Credits (4H - #42013), Grades 11-12****MCC 3 Credits (French 4 and Culture LAN 212)**[Syllabus French IV H](#)

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.

SPANISH 4

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

MCC 3 Credits (Spanish 4 and Culture LAN 252)

[Syllabus Spanish IV H](#)

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. Participation in the Honors course is by teacher recommendation.