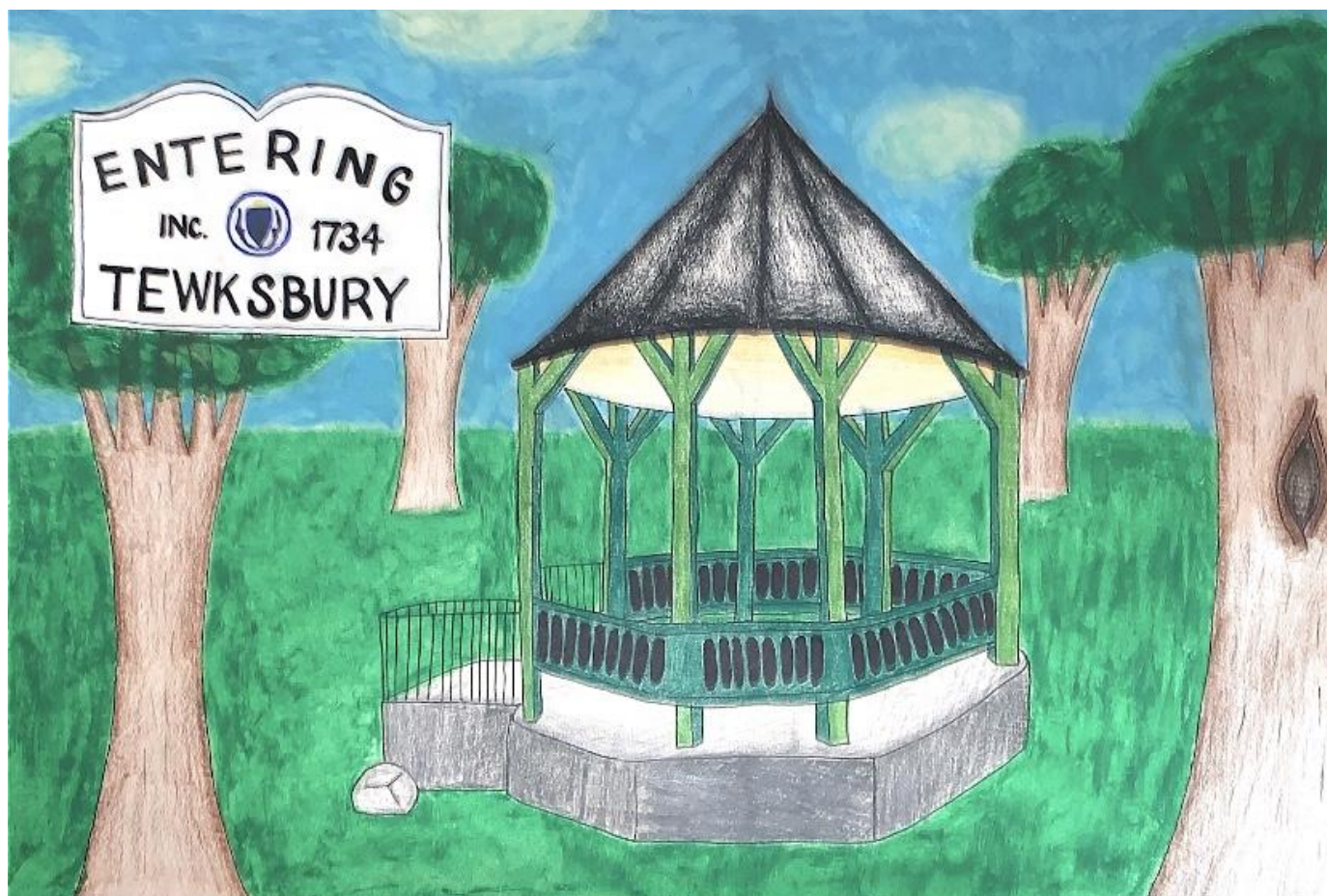


Tewksbury Memorial High School Program of Studies 2021-2022



Madison Pierce (2021)

Tewksbury High School

Mission Statement

Tewksbury Memorial High School provides students with an experience that promotes academic excellence, intellectual curiosity, respect for others, and self-confidence. We foster the development of communication and problem-solving skills necessary to become successful, contributing members of society.

Civil Rights Notification

No person shall be excluded 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, gender identity, religion, national origin, **native language (or language other than English)**, sexual orientation, **homelessness**, or disability.

Any questions should be directed to the Assistant Superintendent of Schools, 139 Pleasant Street, Tewksbury MA, 01876, 978-640-7800

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HOW TO USE THE PROGRAM OF STUDIES

High school is your last chance to take advantage of a free, public education. Make the most of your years here! Take as many challenging courses as possible and explore new areas of interest. As you select your courses for next year:

1. Review the Table of Contents of the Program of Studies so that you know what kinds of information it contains.
2. Select courses to fill every block, typically five 5-credit courses and four 2.5-credit courses, while remaining aware of our graduation requirements.
3. Talk with your guidance counselor about your plans for your schedule and ask your counselor any questions you may have.

Think of the graduation requirements as a starting point. Note, for example, that the minimum admissions requirements for Massachusetts state colleges and universities include two years in a single world language. If you are able, however, to take more years of a world language, we urge you to do so.

Expectations for Student Learning

We **RISE** at TMHS

All members of the TMHS community will RISE and demonstrate:

RESPECT for self, others, property, and the community

INTEGRITY by being honest, ethical, and responsible

SKILLS necessary to pursue their goals in and out of the classroom

ENGAGEMENT in academic and co-curricular activities

TMHS Students will:

- Communicate effectively by gathering information and presenting ideas in a clear, articulate manner
- Solve complex problems using a variety of higher order thinking skills
- Work independently and collaboratively as an engaged learner
- Respect the rights of others

GRADUATION REQUIREMENTS

All students must earn a **minimum of 120 credits** to graduate from Tewksbury Memorial High School*. These credits must include the following minimum requirements:

English	4 courses* (one each year)	20 credits
Mathematics	4 courses* (one each year)	20 credits
Science	3 years of a lab science	15 credits
Social Studies	3 years (World History I & II and US History I/II)	15 credits
World Languages	2 years of the same language	10 credits
Physical Education	4 semesters (one each year)	10 credits
Health	2 semesters (9th and 11th)	5 credits
Fine Arts	1 course	2.5 credits
Performing Arts	1 course	2.5 credits
Career, Technology and Business Education (CTBE)	2 courses* (Beginning with the Class of 2022, one course must be a computer class)	5.0 credits*

***NOTES**

- All students must pass certain MCAS tests in order to graduate from any public high school in Massachusetts.
- Electives can include a variety of courses. However, please be aware that all students at Tewksbury Memorial High school must take courses to fulfill the Fine Arts, the Performing Arts and the Career, Technology and Business Education requirements.
- Pursuant to MA Gen Law Chapter 71 Section 3, all students at Tewksbury Memorial High School must take at least one semester of physical education each year.
- TMHS Graduation Requirements meets or exceeds all [MassCore Requirements](#).
- English and math courses must be full-year 5-credit courses.
- Students must take a minimum of two courses to fulfill the CTBE requirement. Beginning with the Class of 2022 one of these courses must be a computer class. The courses can be either 2.5 or 5.0 credits.

PROMOTION REQUIREMENTS

Grade 9 to Grade 10 -- 30 Credits

Grade 10 to Grade 11 -- 60 Credits

Grade 11 to Grade 12 -- 90 Credits

COURSE OFFERINGS

The course offerings described in the Program of Studies specify the course number, the number of credits to be earned and the level of the course. There is also a brief description of the course content and expectations.

COURSE LEVEL DESCRIPTION

College Preparatory (CP) Courses offer coverage for college bound students with highly developed study skills. Classroom activities are mostly student directed. Course content tends to be abstract and conceptual. Students are expected to work collaboratively and independently on inquiry, problem solving, critical thinking, and reading and writing within each content area. Outside reading and research are required, and students will work well beyond mere memorization. Emphasis in these courses is on the ability to think logically and to write and communicate effectively.

Honors (H) Courses at this level indicate a great degree of challenge and are taught in great depth for college bound students with highly developed study and subject skills. Course content demands critical, relative, and analytical thinking. Course requirements may include any or all of the following: a major research project, formal oral presentations, and frequent substantive, critical written responses to material studied. It is recommended that students desiring to remain in this sequence should be earning grades of B or better and 90% attendance.

Advanced Placement (AP) The designation “Advanced Placement” indicates the greatest degree of difficulty. These courses are taught in compliance with the AP curriculum recommended in each subject area by the [CollegeBoard™](#). All AP courses require extensive summer work that will be assessed at the beginning of the school year. Courses are rigorous and taught at an accelerated pace and in greater depth. Students work independently on inquiry, problem solving, critical thinking, and reading and writing within each content area. Teacher recommendations and/or a signed AP contract may be required prior to enrollment. Students enrolled in the AP program must pay for and take the [CollegeBoard™](#) AP Exam. The AP exam fee can be found at the [CollegeBoard™ website](#). It is recommended that students choosing these courses should be achieving grades of at least a B or better in the Honors sequence and 95% attendance. Students with financial hardship may apply for scholarships to cover the fees associated with AP exams. ([AP expectations agreement](#))

Dual Enrollment (DE) provides students the opportunity to take college, credit-bearing courses while also completing their high school graduation requirements. These college courses are not extra classes taken before or after school. They are part of the daily class schedule and are taught at the college level by Tewksbury Memorial High School teachers who meet or exceed the hiring qualifications to teach at the college level. Currently, high school students with junior or senior status are eligible to participate in the Dual Enrollment Program. We currently partner with Middlesex Community College to offer college credit-bearing courses on our own high school campus. There is a fee that is determined by the college. Course offerings may vary from year to year, and not all sections of classes will be designated as Dual Enrollment courses. Please talk to your high school guidance counselor to learn more about dual enrollment and what courses are offered. DE courses will be weighted at honors credit to be determined on a course-by-course basis. Students with financial hardship may apply for scholarships to cover the fees associated with dual enrollment courses.

Senior Project

The Senior Project, a fourth-quarter off-campus experience, provides eligible seniors with the opportunity to utilize and apply 21st century skills in a real world setting. Students may pursue an externship with businesses or professional organizations, a community service project, or complete a research paper or project. [The Senior Project web page](#)

Global Competency Certificate

The Global Competency Certificate is a certificate students can receive upon graduation demonstrating their understanding and involvement within a global community. It is for the student who feels passionate about improving the world, and feels the need to make a difference in the world. Through [coursework](#), community service, and experiential learning students will set themselves apart as global citizens that identify with the plight of others. This certificate program will be available beginning with the Class of 2021. [See the Video description](#).

Seal of Biliteracy (SoBL)

The Seal of Biliteracy is an award that recognizes students who have achieved proficiency in English as well as one more additional language, whether it be a native language, a heritage language, or an additional language learned in school or in another setting.

To qualify for the Seal of Biliteracy, students must meet all graduation requirements, and achieve proficiency in English and another language in standardized tests. For detailed information on the application process and requirements, visit the following website: [TPS Seal of Biliteracy](#)

Innovation Pathways Program

Innovation Pathways are structures within high schools that are designed to connect student learning to a broadly-defined industry sector that is in demand in the regional and state economy. Tewksbury Memorial High School will develop strong partnerships with employers to provide students career awareness and work-based learning activities. Students will participate in a series of courses and experiences relevant to achieving industry-recognized credentials. Participation in this program can lead students to opportunities for meaningful careers in that industry sector upon the completion of needed post-secondary education and training.

All participating students will need to meet the MassCore standards, which are embedded into Tewksbury Memorial High School's graduation requirements. Participating students are required to participate in two Career, Technical, Business, Education (CTBE) courses, which can be taken during their sophomore and junior years. Students would elect participation in spring of their freshman year during or after their individual course selection meeting with their guidance counselor. Students are welcomed during their sophomore or junior years to meet with their guidance counselor to review participation eligibility.

English Language Learners

The district ensures that all English Language Learners are taught to the same academic standards and curriculum as all students, and provides the same opportunities to master such standards as other students, including the opportunity to enter academically advanced classes, receive credit for work done, and have access to the full range of programs.

The district uses grade appropriate content objectives for English Language Learners that are based on the district curricular in English language arts, history, social studies, mathematics, science, and technology / engineering, taught by qualified staff members.

COURSE PATHWAYS

Two elective courses from a category within a pathway taken during the same academic year are equivalent to a full-year course.

Art and Technology Pathway

3D Art

Ceramics 1	Ceramics 2	Sculpture
Design	Foundations of Art	

2D Art

Photography 1	Photography 2	Drawing 1
Drawing 2	Painting 1	Painting 2
Foundation of Arts	Design	

Digital Art/Computers

Digital Media 1	Digital Media 2	Film Appreciation
Digital Imaging	Intro to Computer Science	Digital Literacy
Web Design & Visual Com.	Game Design	Intro to Computer Programming

STEM Pathway

Applied Sciences

Forensic Science	Robotics/Lab	Astronomy
Introduction to Health Careers		

Engineering

Intro to Computer Programming	Engineering and Design 1	Engineering and Design 2
Engineering and Design 3	Robotics/Lab	Biotechnology

Applied Mathematics

Personal Finance	Economics
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Humanities Pathway

Law

Criminal and Civil Law	Psychology and the Law	Forensic Science
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Writing

Creative Nonfiction	Creative Writing	Sports and Society
Media Communications	Journalism	

Social Sciences

Psychology
Economics

Psychology and the Law

Criminal and Civil Law

US & World Relations

International Relations
Hispanic Culture and History

US History III
Global Thought

Economics

Careers Pathway

Education

Child Care 1

Child Care 2

Child Care 3

Business

Accounting 1
Marketing 1
Marketing 2
Sports & Ent. Mktg

Intro to Computer Programming
Intro to Computer Science
Media Communications
Web Design & Visual Comm.

Personal Finance
Digital Literacy
Intro. to Health Careers
Business Mgt & Marketing

Performing Arts/Music Pathway

Band
Chorus
Introduction to Guitar
Popular Music: History & Styles

Music History
Theater Arts
Musical Theater Production
Technical Theater

Digital Media 1
Digital Media 2
Media Communications

TMHS COURSE LIST

English

[ENGLISH 9](#)
[ENGLISH 10](#)
[AMERICAN LIT](#)
[SENIOR ENGLISH](#)
[CREATIVE WRITING](#)
[JOURNALISM](#)
[FILM APPREC/ANALYSIS](#)
[SPORTS & SOCIETY](#)
[CREATIVE NONFICTION](#)
[AP LANGUAGE & COMP](#)
[AP ENG LIT & COMP](#)

Social Studies

[WORLD HISTORY I](#)
[WORLD HISTORY II](#)
[US HISTORY I AND II](#)
[AP ECONOMICS](#)
[AP PSYCHOLOGY](#)
[AP U.S. GOV & POL](#)
[AP US HISTORY](#)
[AP WORLD HISTORY](#)
[CRIMINAL/ CIVIL LAW](#)
[ECONOMICS](#)
[INTRNATL REL](#)
[PSYCHOLOGY & LAW](#)
[US HISTORY III](#)
[PSYCHOLOGY](#)

Mathematics

[ALGEBRA 1](#)
[GEOMETRY](#)
[ALGEBRA 2](#)
[PRE CALC](#)
[CALCULUS](#)
[STATISTICS](#)
[MATH PROB SOLVING](#)
[AP CALCULUS](#)
[AP STATISTICS](#)
[PERSONAL FINANCE](#)
[ECONOMICS](#)

Science

[ASTRONOMY](#)
[BIOLOGY](#)
[AP BIOLOGY/LAB](#)
[CHEMISTRY/LAB](#)
[AP CHEMISTRY](#)
[PHYSICS with LAB](#)
[BIOTECHNOLOGY](#)
[AP PHYSICS/LAB](#)
[INTRO to PHYS/CHEM](#)
[ANATOMY & PHYS](#)
[FORENSIC SCIENCE](#)
[ENG & DES TECH 1](#)
[ENG & DES TECH 2](#)
[ENG & DES TECH 3](#)
[ROBOTICS/LAB](#)
[ENVIRONMENTAL](#)

World Language

[AMERICAN SIGN LANG](#)
[FRENCH 1](#)
[FRENCH 2](#)
[FRENCH 3](#)
[H FRENCH 4](#)
[AP FRENCH](#)
[LATIN 1](#)
[LATIN 2](#)
[LATIN 3](#)
[H LATIN 4](#)

[AP LATIN](#)

[SPANISH 1](#)

[SPANISH 2](#)

[SPANISH 3](#)

[H SPANISH 4](#)

[AP SPANISH](#)

[HISPANIC CULTURE/HIST](#)

[HISTORY OF LANGUAGE](#)

Special. Education

[DL I](#)

[DL II](#)

[Other](#)

Fine Arts

[DRAWING I](#)
[DRAWING II](#)
[FOUNDATIONS IN ART](#)
[PAINTING 1](#)
[PAINTING 2](#)
[CERAMICS I](#)
[CERAMICS II](#)
[DESIGN](#)
[SCULPTURE](#)
[PHOTOGRAPHY I](#)
[PHOTOGRAPHY II](#)
[DIGITAL IMAGING](#)
[H SR ART STUDIO](#)
[AP ART HISTORY](#)

Performing Arts

[BAND - CONC/MARCH](#)
[CHORUS](#)
[INTRO TO GUITAR](#)
[MUSIC THEORY](#)
[POPULAR MUSIC](#)
[THEATER ARTS](#)
[MUSICAL THEATER](#)
[TECHNICAL THEATER](#)
[DIGITAL MEDIA I](#)
[DIGITAL MEDIA II](#)
[MEDIA COMM](#)

Wellness

[HEALTH 1](#)

[HEALTH 2](#)

[PHYSICAL EDUCATION](#)

Global/Interdisciplinary

[ECONOMICS](#)

[INTRNATL REL](#)

[GLOBAL THOUGHT](#)

[US HISTORY III](#)

[HISPANIC CULTURE/HIST](#)

CTBE

[WEB DESIGN & COMM](#) *
[GAME DESIGN](#) *
[INTRO TO COMP PROG.](#) *
[INTRO TO COMP SCIENCE](#) *
[DIGITAL LITERACY](#) *
[AP COMP SCI PRINCIPLES](#) *

*satisfies computer requirement

[CHILD CARE 1](#)

[CHILD CARE 2](#)

[CHILD CARE 3](#)

[ENG & DES TECH 1](#)

[ENG & DES TECH 2](#)

[ENG & DES TECH 3](#)

[ROBOTICS/LAB](#)

[ACCOUNTING](#)

[PERSONAL FINANCE](#)

[BUS MGT & MARKETING](#)

[SPORTS & ENT MARKETING](#)

[MARKETING 1](#)

[MARKETING 2](#)

[DIGITAL MEDIA I](#)

[DIGITAL MEDIA II](#)

[TECHNICAL THEATER](#)

[MEDIA COMMUNICATIONS](#)

[INTRO to HEALTH CAREERS](#)

[HEALTH CAREERS 2 - NAT/HHA](#)

Additional Course Offerings

[GLOBAL THOUGHT](#)

[EDGENUITY](#)

[EXPERIENTIAL LEARNING](#)

[ACADEMIC SKILLS/STRAT](#)

[WRITING LAB](#)

[MATH LAB](#)

ESL

[ELL SUPPORT](#)

GUIDANCE AND COUNSELING

PROGRAM AND SERVICES

The goal of the School Counseling Department is to support all students' academic success and social-emotional development throughout all four years of high school.

Freshmen

Orientation/Transition

- | | |
|-----------|--|
| September | <ul style="list-style-type: none">● Introduction to Naviance and completion of Learning Styles Inventory and Strengths Explorer● High school informational meeting for freshman parents |
| March | <ul style="list-style-type: none">● Individual student/counselor meeting to review course selections, transcripts, and post-graduate interests |

Sophomores

Career Guidance/Exploration

- | | |
|----------|--|
| October | <ul style="list-style-type: none">● PSAT exam |
| December | <ul style="list-style-type: none">● Counselors will distribute PSAT results to students● Naviance career exploration assessments |
| March | <ul style="list-style-type: none">● Individual student/counselor meeting to review course selections, transcripts, and post-graduate interests |

Juniors

Career Guidance/Post-secondary Planning

- | | |
|----------|---|
| October | <ul style="list-style-type: none">● PSAT exam● Financial Aid Presentation - MEFA |
| December | <ul style="list-style-type: none">● Distribute PSAT results to students |
| February | <ul style="list-style-type: none">● Begin individual post-graduate planning meetings with students● Post-graduate planning presentation and assembly for junior parents and students |
| March | <ul style="list-style-type: none">● Individual student/counselor meeting to review course selections, transcripts, and postgraduate interest● Armed Services Vocational Aptitude Battery (ASVAB) Exam● SAT exam at TMHS |
| April | <ul style="list-style-type: none">● Resume Writing Workshop● ASVAB results presentation● Greater Lowell Workshop - Job skills presentation |

- | | |
|-----|--|
| May | <ul style="list-style-type: none"> ● College and Career Fair ● AP exam testing |
|-----|--|

Seniors

Transition Planning/Decision Making

- | | |
|-----------|--|
| August | <ul style="list-style-type: none"> ● Common Application presentation and assistance |
| September | <ul style="list-style-type: none"> ● College informational presentation for students and parents ● Individual student/counselor post-graduate planning meetings |
| October | <ul style="list-style-type: none"> ● Resume Writing Workshop ● College Essay Writing Workshop ● Vocational School Training presentations ● Individual student/counselor post-graduate planning meetings ● Financial Aid Presentation - MEFA |
| November | <ul style="list-style-type: none"> ● Individual student/counselor post-graduate planning meetings |
| February | <ul style="list-style-type: none"> ● AFL CIO Scholarship Exam ● Community Scholarship available to students |
| April | <ul style="list-style-type: none"> ● Financial Literacy Workshop ● Middlesex Community College- on-site applications and interviews ● SNHU Advantage - on-site applications and interviews |
| May | <ul style="list-style-type: none"> ● AP exam testing ● Award & Scholarship Night |

- ★ *Counselors will meet with students who are struggling within the academic setting.*
- ★ *Counselors will make appropriate referrals to school and outside resources.*
- ★ *Students may make an appointment to meet with their counselor at any time. Counselors make their available appointment times viewable online through Calendly. Each counselor's calendar link is posted on the door leading into the Counseling Office.*

COUNSELING STAFF

Kennan Daniel	Counselor, Chair	kdaniel@tewksbury.k12.ma.us
David Harne	Counselor	dharne@tewksbury.k12.ma.us
Kayla Schutte	Counselor	kschutte@tewksbury.k12.ma.us
Tina Sheahan	Counselor	tsheahan@tewksbury.k12.ma.us
Patricia Whitehouse	Administrative Assistant	pwhitehouse@tewksbury.k12.ma.us

COURSE SELECTION PROCESS

GENERAL GUIDELINES

- With the help of their teachers and guidance counselors, students may select any of the courses described in this booklet in order to satisfy graduation requirements as well as college and career interests. [Click here](#) to view college/career pathways.
- Students should be especially alert to recommendations as stated after each course description before making a selection.
- Students planning to attend and to participate in a National Collegiate Athletic Association (NCAA) Division I or Division II college or university athletic program must see their guidance counselor in order to determine NCAA approved courses.

COURSE SELECTION PROCEDURE

1. In February, teachers recommend courses, and counselors go into classrooms to give students scheduling information and explain the scheduling process.
2. Before the end of February break, students should carefully review teacher recommendations with their teachers and parents/guardians and enter their requests online. Students should review the Program of Studies for information on elective courses, as teachers typically do not make recommendations for these classes.
3. Throughout February and March, students meet with counselors to help finalize selection of appropriate courses for the next school year.
4. Between April 1 and May 1, department heads review completed Course Recommendation Override Forms and make decisions on whether to allow students to take a course they were not recommended for.
5. Between May 1 and the last day of school, counselors ensure that student schedules are balanced and include all the necessary courses for graduation.
6. After the last day of school, no changes to course requests will be made.

SCHEDULE CHANGE PROCESS

Changes in course requests may be made anytime in the months between the scheduling meeting with the counselor in February/March through the last day of school. It is expected that students and parents have reviewed and corrected any course selections during this time. After the last day of school, the only course changes that will be made will be those necessitated by schedule conflicts, level changes, failure of a course, or data entry errors.

Students must make informed decisions about courses requiring summer assignments for Advanced Placement courses because these courses will not be dropped at the beginning of the school year due to incomplete work.

REASONS THAT MAY JUSTIFY SCHEDULE CHANGES

1. Semester imbalances
2. Replacement of summer school course(s) successfully completed
3. Inappropriate course level as dictated by the prerequisite course final grade and/or teacher/counselor recommendation
4. Obvious program error such as omission of required subject or selected subject
5. Course failures
6. Scheduled for a class a student didn't request during the course selection process

COURSE RECOMMENDATION OVERRIDE and COURSE LEVEL CHANGE FORMS

Course recommendations are made by teachers each spring for the following school year based on classroom performance and other objective measures. On occasion the student and family may decide to override this recommendation by submitting a Course Recommendation Override Form (available on the school website or in the Guidance Office). This form must be turned in to the appropriate department head before April 1. Course Recommendation Override forms will not be available to students after April 1.

During the year, occasionally students need to move to a different level of a course. A Course Level Change Form (available on the school website or in the Guidance Office) must be completed prior to consideration of the requested change. The following criteria will be considered in making a course level change:

1. Course level changes will only be permitted if an obvious placement error has been made as determined by the teacher, department supervisor, counselor, and administration.
2. If a student is failing in a course after every effort has been made to do the required work and seek out extra help, a course level change may be considered.

When a course level change is made, the grades earned will be transferred to the new class. Course level changes will be processed at progress reports and at the end of Q1 and Q2.

Mrs. Lynne Hardacre, English Department Chair Ext. 5038
English Graduation Requirement: 4 Years / 20 Credits

***These courses do not help fulfill the 20 credit requirement in English for graduation.**

Freshman English focuses on grammar, vocabulary, writing skills, and literary genres (including the novel, short story, poetry, nonfiction, drama, and speeches).

The Sophomore English/World Literature Course is designed to draw upon literature from a diverse number of cultures, thereby exposing students to its richness. These situations will be explored through novels, nonfiction works, short stories, poems and drama, all of which introduce people and places from across the globe. These various literary works will be studied from a thematic approach. World Literature places emphasis on critical reading, writing and presenting effectively.

140-H American Literature Grade 11 Honors Credits 5
(Recommendation : C or better in 110-H English 10 or A- or better in 110-CP English 10)

140-CP American Literature Grade 11 CP Credits 5

Students will focus on the critical analysis of American literature through the appreciation of common themes. Interpretation of the material through both its literary and historical contexts is stressed through classroom discussion, group and individual projects. Students will continue to improve their skills in both analytical and creative writing. Reinforcement of grammatical and literary terminology developed in the freshman and sophomore years will be accomplished through reading and writing assignments.

This course is designed to improve academic excellence through the acquisition of skills and knowledge that enhance the ability of students to become contributing members of society. Through reading, writing, oral presentations and group work, students will meet the expectations of effective communication, problem solving and cooperation.

140-AP AP English Language and Composition Grade 11 CP Credits 5

Advanced Placement English Language and Composition is a course for students with a consistent work ethic both inside and outside of the classroom who demonstrate a genuine interest in reading and composition. By studying works that are primarily nonfiction, students will be able to identify and analyze various rhetorical strategies and evaluate how to incorporate these strategies within their own writing and discourse. This course will be a writing intensive course, in which students will be writing analyses and conducting independent research frequently. Students will also be expected to present often in class presentations and projects, as this course will also explore oral presentation and discourse skills. This course is a preparation course for the Advanced Placement English Language and Composition exam in May.

150-H Senior English* Grade 12 Honors Credits 5

(Recommendation: a grade of “C” or better in 140-H American Literature or “A-” or better in 140-CP American Literature)

150-DE Senior English* Grade 12 DE/Honors Credits 5

150-CP Senior English Grade 12 CP Credits 5

The student will study the changing literary styles as well as the social and political climate of American/British Literature from its inception through the current day. Subsequently, a shift to literary works from other countries and various genres including contemporary works will be presented. Through diverse classroom activities, students will become more familiar with the evolution of literature from Britain to America and various other nations.

*Dual Enrollment through a local college/university when available.

150-AP AP English Literature and Composition Grade 12 AP Credits 5

(Recommendation: A grade of “B” or better in course 140-H or a grade of “A” or better in course 140-CP.) Students signing up for Course 150-AP must attend a meeting with the course 150-AP teacher at which time the course expectations will be described and the summer assignment will be outlined.

This course is centered around five basic objectives: the student is expected to demonstrate a knowledge of the techniques of analytical reading; he/she is expected to demonstrate in writing an awareness of the elements of effective prose expression; he/she is expected to demonstrate in writing his/her awareness of the major historical, cultural and intellectual trends present in English literary history; he/she is expected to demonstrate in a number of critical essays an ability to do independent reading and analysis; he/she is expected to demonstrate by successfully passing the A.P. Exam, his/her mastery of the principles of

literary analysis, criticism and expression. A term paper is required. *Students who complete the requirements for this course are expected to take the advanced placement exam.*

170-CP Creative Writing **Grades 11,12 CP** **Credits 2.5**

(Recommendation: Must have a love of writing!)

Beyond studying literary genres and authors in traditional English classes, students in this course will synthesize what they have learned about writing styles and forms to create works of their own. Writing exercises are designed to improve students' powers of self-analysis and abstract thought through the writing and sharing of their works. An emphasis is placed on the essay, novel, short story and the poem. Goals will be set for formal submission and publication of work. The course is an intensive and diverse approach to creative writing. ([Informational Video Link](#))

Note: This course does not help fulfill the 20 credit requirement in English for graduation.

180-CP Journalism **Grades 9-12 CP** **Credits 2.5**

Students will evaluate newsworthiness, ethics, world & school culture, and their own writing through article composition, class-wide discussion, and collaborative research. A main objective of this writing-intensive course will be to write for the school news website, *The Tewksbury Tribune*. While writing news articles, students will also explore writing opinion pieces, news features, movie/music reviews, and expanded interviews. Students will also explore how this region of the world, Massachusetts, has contributed to the world of journalism. ([Informational Video Link](#))

Note: This course does not help fulfill the 20 credit requirement in English for graduation.

181-CP Creative Nonfiction **Grades 11,12 CP** **Credits 2.5**

Students will explore the genre of creative nonfiction as they analyze contemporary literary models, develop their voices as writers, and collaboratively workshop their writing. Creative nonfiction requires students to draw on their knowledge of form, structure and style, as well as memory and research to examine their personal experiences, as well as their connection to the world at large. Students will study and explore within their writing the subgenres of creative nonfiction, including memoir, personal essay, and literary journalism.

Note: This course does not help fulfill the 20 credit requirement in English for graduation.

185-CP Film Appreciation/Analysis **Grades 11,12 CP** **Credits 2.5**

This course will explore the history of American film as a reflection of American society. Topics of study will include: history of American films, comedy films, violence in film and minority portrayals in film. Students will also do a Director Study where they will explore the body of work of a particular director and share their findings with the class.

Note: This course does not help fulfill the 20 credit requirement in English for graduation.

196-CP Sports and Society **Grades 11,12 CP** **Credits 2.5**

Sports Literature offers students the opportunity to explore different aspects of sports by reading current events, sports articles, selections from short story anthologies and sports related novels. There is an emphasis on reflective essay writing as well as researching specific athletes and sports. The course also focuses on non-traditional athletics, inspirational sports stories, and sports journalism. Students take a comprehensive look at issues of racism, gender, steroids, violence, and athletes as role models, and their impact on today's sports. ([Informational Video Link](#))

Note: This course does not help fulfill the 20 credit requirement in English for graduation.

Social Studies Department

Mr. Brian Aylward, Department Chair Ext. 5001
Social Studies Graduation Requirement: 3 Years / 15 Credits

<u>Course Title</u>	<u>Level</u>	<u>Course #</u>	<u>Grade</u>	<u>Course Length</u>	<u>Credits</u>
World History I	H/CP	200-H/CP	9	Full Year	5
World History II	H/CP	210-H/CP	10	Full Year	5
AP World History	AP	210-AP	10	Full Year	5
AP U.S. History	AP	220-AP	11	Full Year	5
U.S. History I & II	H/DE/CP	220-H/DE/CP	11	Full Year	5
U.S. History III	CP	290-CP	12	Semester	2.5
AP Psychology	AP	240-AP	10 - 12	Full Year	5
Psychology	CP	240-CP	10 - 12	Semester	2.5
Criminal and Civil Law	CP	252-CP	11, 12	Semester	2.5
AP Economics	AP	270-AP	11, 12	Full Year	5
Economics	CP	270-CP	11, 12	Semester	2.5
International Relations	CP	280-CP	10 - 12	Semester	2.5
Psychology and the Law	CP	286-CP	11, 12	Semester	2.5
AP Government and Politics	AP	295-AP	12	Full Year	5

200-H	World History I	Grade 9	Honors	Credits 5
200-CP	World History I	Grade 9	CP	Credits 5

This course examines world history from 1500 to the present. Students will examine such trends as social, political and economic revolution, the development of democracy, the growth of nationalism, imperialism, the search for stability and peace in the western and non-western world and the role of the individual in society. This course will also investigate the connections between the past and present by examining the causes and results of historical events. There is an expectation that the student will be able to work both independently and within a group setting in these courses.

210-H	World History II	Grade 10	Honors	Credits 5
210-CP	World History II	Grade 10	CP	Credits 5

Over the course of the school year, we will examine the following topics: what it means to be human, what it means to be humane, and conversely, why so many cases of extreme inhumanity continue to exist. While this class will devote a considerable amount of time to the study of the Holocaust, our starting point of analysis will be in fact with ourselves. If we are to understand societal forces that shape history, we must understand the forces that motivate our own actions as individuals who are necessarily part of a larger society. In this way, our study of the Holocaust will not merely be a study of foreign circumstances and far-away issues, but it will be a study of the ingredients of evil, the dangers of indifference, and the flaws of humanity—all of which are reflected in the past and present of our own nation’s history. We will examine a variety of issues in both the present and past of the United States.

210-AP	AP World History: Modern	Grades 10	AP	Credits 5
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(Recommendation: A grade of “B+” in World History I or teacher recommendation. Students contemplating taking this course must attend a meeting with the teacher at which time the course expectations will be described and the summer assignment will be outlined. Completion of the summer assignment is a requirement.)

This is an advanced placement, introductory, college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. This course will explore world history chronologically and thematically and will meet the standards of the AP World History: Modern curriculum. *Students who complete the requirements for this course are expected to take the advanced placement exam.*

220-AP	AP U.S. History I & II	Grade 11	AP	Credits 5
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(Recommendation: A grade of “B+” in World History or teacher recommendation. Students contemplating taking this course must attend a meeting with the teacher at which time the course expectations will be described and the summer assignment will be outlined. Completion of the summer assignment is a requirement.)

This course follows the intensive curriculum of the A.P. program published by the College Board Testing Service in Princeton, New Jersey. AP U.S. History begins with the early explorations of North America and continues to the year 2000. Students are engaged in a variety of activities requiring them to interpret and analyze history using both primary and secondary sources. Besides writing weekly papers, students also answer thought-provoking essay questions from previous A.P. U.S. History exams as part of each unit test. *Students who complete the requirements for this course are expected to take the advanced placement exam.*

220-CP	U.S. History I & II	Grade 11	CP	Credits 5
220-H/DE*	U.S. History I & II	Grade 11	Honors	Credits 5

This full-year course is a study of major events in U.S. History from the Revolution to the present. The first semester will cover the time period from the Revolution to Reconstruction including the development of our government. The second semester will continue a survey of U.S. history from 1877 to the present including the growth of our government. The course emphasizes analysis of factual information, historical research and relevant geographic, political and economic principles. Through

numerous papers and oral presentations students will meet the school-wide expectation of “communicating effectively.” and becoming “contributing members of society.” Engaging in group projects will enable students to meet the goal of working with others toward a common goal and respecting the rights of others.

*Dual Enrollment through a local college/university when available.

290-CP US History III Grade 12 CP Credits 2.5

Modern U.S. History is an elective course for students interested in contemporary issues in American history. This course will cover the events from 1960 to the present, from the election of John F. Kennedy to the recent conflicts in Iraq and Afghanistan. This course is a great option for students interested in continuing their education in history.

240-AP AP Psychology Grades 10-12 AP Credits 5

This is a full year, intensive college level course in Psychology designed to prepare highly motivated students in Psychology to take the AP test in May. Upon completion of the course the student should be able to demonstrate a solid background in the systematic and scientific study of the behavior and mental processes of human beings. Specific areas of study include: consciousness and dreaming, biological bases of behavior, personality theory, mental illness, treatment, learning cognition and social psychology. The curriculum is guided by the College Board standards for advanced placement. *Students who complete the requirements for this course are expected to take the advanced placement exam.*

240-CP Psychology Grades 10-12 CP Credits 2.5

This course is an introduction to the principles of psychology. The topics are: intelligence, personality, behavior, learning, personality disorders, development and types of therapy. Projects and activities include creating collages, relaxation techniques, and role playing. Students are assessed on successful performances on tests and projects.

252-CP Criminal and Civil Law Grades 11, 12 CP Credits 2.5

This course is the study of the fundamental principles underlying local, state and national government. The primary emphasis will be local government and the practical application of governmental theory. This course presents an overview of both criminal and civil law. Special emphasis is placed on the legal system with special attention given to the rights of the accused as well as those involving civil cases. Citizen protections and responsibilities are covered in all areas of law including the most recent consumer legislation. This course has proved useful for seniors who may be entering the field of law enforcement or civil service.

270-AP AP Economics Grade 11-12 AP Credits 5

(Recommendation: A grade of “B+” in Honors World History II or teacher recommendation.)

This rigorous college-level course is a two-semester examination of fundamental principles governing economic activity of the individual, the firm and the aggregate economy. Primary emphasis is placed on the nature and function of product and factor markets; national income and price determination; economic performance and international economics. The course is challenging in regard to its reading and writing assignments and in-class discussions. By enrolling in this course, you will be eligible to participate in the TMHS DECA program. *Students who complete the requirements for this course are expected to take the advanced placement exam. ([Informational Video Link](#))*

270-CP	Economics	Grades 11, 12	CP	Credits 2.5
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Economics is the study of choices. In this rigorous course, students will become entrepreneurs, start their own businesses, and invest in the stock market. Students will analyze concepts ranging from the demand for car stereos to the value of treasury bonds. Consistent effort and participation are essential to success in this challenging class. All students, particularly those interested in pursuing careers in business, the law, or government should seriously consider taking this course. By enrolling in this course, you will be eligible to participate in the TMHS DECA program.

280-CP	International Relations	Grades 10 - 12 CP	Credits 2.5
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This course will encourage the student to think globally and to enter the world of international cooperation and conflict. Using current international events, students will analyze how countries determine and pursue their national interests.

286-CP	Psychology and the Law	Grade 11, 12	CP	Credits 2.5
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Psychology and the Law provides an overview of the principles of forensic psychology as applied to the legal arena. Primary emphasis is given to the role of the forensic psychologist when dealing with the legal field. Topics include: forensics, the criminal justice system, expert witnesses, police interrogations, eyewitness interviews, profiling, serial killers, hate crimes, bullying, jury selection, domestic violence, sentencing goals, and alternatives to prison. This course is best suited for those interested in the fields of law or psychology and will require extensive student participation.

295-AP AP US Government and Politics Grade 12 AP Credits 5

(Recommendation: A grade of “B” in AP US History 220-AP or a grade of “A” in Honors/CP US History 220-H/CP)

This rigorous, college-level course is a two-semester study of general concepts and theories pertaining to U.S. government, typical patterns of political processes and behavior; and the institutions, groups and beliefs that comprise the American political system. Unlike other American government courses, students analyze political statistics and data, including public opinion polls, electoral maps, demographic charts and political cartoons. The course is challenging in its reading and writing assignments, data analysis and in-class discussion and debate. It is expected that students will become effective decision makers and better informed citizens capable of analyzing the important political issues that confront our nation. ***Students who complete the requirements for this course are expected to take the advanced placement exam.***

Mrs. Shelli-An Ryan, Department Chair Ext. 5061
Mathematics Graduation Requirement: 4 Years / 20 Credits

<u>Course Title</u>	<u>Level</u>	<u>Course #</u>	<u>Grade</u>	<u>Course Length</u>	<u>Credits</u>
Algebra 1	H/CP	300-H/CP	9	Full Year	5
Geometry	H/CP	310-H/CP	9, 10	Full Year	5
Algebra 2	H/CP	320-H/CP	9-11	Full Year	5
Pre-Calculus	H/CP	350-H/CP	10-12	Full Year	5
AP Calculus A/B	AP	360-AP	11, 12	Full Year	5
Calculus	H/DE	360-H/DE	11, 12	Full Year	5
AP Statistics	AP/DE	370-AP/DE	10-12	Full Year	5
Introduction to Statistics	CP	370-CP	11, 12	Full Year	5
Math Problem Solving	CP	372-CP	12	Full Year	5
Personal Finance*	CP	663-CP	11, 12	Semester	2.5

***This course does not help fulfill the 20 credit requirement in mathematics for graduation.**

300-H	Algebra 1	Grade 9	Honors	Credits 5
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(Recommendation: A grade of B or higher in Math 8)

300-CP	Algebra 1	Grade 9	CP	Credits 5
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This course is a college preparatory course that stresses equations, radicals, polynomials, graphing, probability and statistics, functions, and factoring. Real-world applications are utilized throughout the courses to make mathematics relevant. This will be accomplished through the use of manipulatives, activities, interactive technology, and an exploratory approach to learning.

310-H	Geometry	Grades 9,10	Honors	Credits 5
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(Recommendation: A grade of B or higher in 300-H or in Honors Math 8)

310-CP	Geometry	Grade 10	CP	Credits 5
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(Recommendation: Successful completion of 300-H/CP)

This course is a college preparatory course designed for students who have completed Algebra I. Geometry topics such as points, lines, angles, triangles, parallelograms, other polygons, circles and 3-dimensional polyhedrons and spheres are studied in more depth. **Students may dual enroll in Geometry and Algebra II.**

320-H	Algebra II	Grades 9-11	Honors	Credits 5
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(Recommendation: A grade of B or higher in 310-H)

320-CP	Algebra II	Grades 9-11	CP	Credits 5
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(Recommendation: Successful completion of 310-H/CP)

Algebra II is designed for college preparatory students. Major units of the course include the function concept, rational algebraic expressions, linear and quadratic equations and inequalities, systems of equations, irrational numbers, trigonometry, sequences and series, logarithms, statistics, and applications of algebra to real world situations. **Students may dual enroll in Geometry and Algebra II.**

350-H	Pre-Calculus	Grades 10-12	Honors	Credits 5
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(Recommendation: A grade of B or higher in 320-H)

350-CP	Pre-Calculus	Grades 10-12	CP	Credits 5
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(Recommendation: A grade of B or higher in 320-H/CP)

This course is designed for the student who intends to take Calculus. Advanced topics in Algebra will be covered, with an emphasis on trigonometric functions and their inverses, conic sections, as well as exponential and logarithmic functions. Some advanced topics in sequences, series and an introduction to limits will also be covered. The application of the functions in applied and theoretical problems will be explored through the use of graphing calculators. A graphing calculator is strongly recommended for the course.

360-AP	AP Calculus	Grade 11, 12	AP	Credits 5
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(Recommendation: A grade of B or higher in course 350-H)

Students contemplating taking 360-AP must attend a meeting with the teacher of the course at which time the course expectations will be described and the summer assignment will be outlined. Completion of the summer assignment is a requirement.

This course is intended for mathematically talented, highly motivated students who will take the AP exam (AB) and may result in advanced credit for students taking Calculus in college. The curriculum is prescribed and follows a rapid pace. It includes the study of functions, limits, derivatives, integrals, applications, transcendental functions, and elementary differentials. The TI-84 graphing calculator and/or computer software will be used extensively. **A graphing calculator is required for the course. Students who complete the requirements for this course are expected to take the advanced placement exam.**

360-H/DE*	Calculus	Grade 11, 12	Honors	Credits 5
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(Recommendation: A grade of B or higher in 350-H/CP)

This course is intended for capable math students who are planning careers in mathematics, science or engineering fields. It is a rigorous course which includes the study of limits, derivatives, integrals and their applications. A graphing calculator is strongly recommended for the course.

**Dual Enrollment at a local college/university when available.*

370-AP/DE*	AP Statistics	Grades 10-12	AP	Credits 5
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(Recommendation: A grade of "B" or higher in 320-H/CP. Sophomores must have completed Algebra II prior to enrolling in this class.)

Students contemplating taking 370-AP must attend a meeting with the teacher of the course at which time the course expectations will be described and the summer assignment will be outlined. Completion of the summer assignment is a requirement.

This course is designed for students who have mathematical maturity and quantitative reasoning ability who will take the AP exam and may result in advanced credit for students taking Statistics in college. The

*Dual Enrollment at a local college/university when available.

(Recommendation: Successful completion of or taken in conjunction with 320-H/CP)

372-CP	Math Problem Solving	Grade 12	CP	Credits 5
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663-CP	Personal Finance	Grade 11, 12	CP	Credits 2.5
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Note: This course does not help fulfill the 20 credit requirement in mathematics for graduation.

Science Department

Mrs. Susan Barnett, Department Chair Ext. 5004

Science Graduation Requirement: 3 Years lab science / 15 Credits

<u>Course Title</u>	<u>Level</u>	<u>Course #</u>	<u>Grade</u>	<u>Course Length</u>	<u>Credits</u>
Biology/Lab	H/CP	400-H/CP	9	Full Year	5
Chemistry/Lab	H/CP	410-H/CP	10, 11, 12	Full Year	5
Physics/Lab	H/CP	420-H/CP	10, 11, 12	Full Year	5
Intro to Physics & Chemistry/Lab	CP	431-CP	10, 11, 12	Full Year	5
Environmental Science/Lab	CP	433-CP	11, 12	Full Year	5
Anatomy & Physiology/Lab	CP	447-CP	10, 11, 12	Full Year	5
Astronomy	CP	443-CP	11, 12	Semester	2.5
Biotechnology	H/DE	445-H/DE	11, 12	Semester	2.5
Forensic Science/Lab	CP	449-CP	11,12	Semester	2.5
Robotics/Lab	CP	690-CP	11,12	Semester	2.5
Engineering & Design Tech /Lab	CP	684-CP	11,12	Semester	2.5
AP Biology/Lab	AP/DE	452-AP/DE	11, 12	Full Year	5
AP Physics/Lab	AP	454-AP	11, 12	Full Year	5
AP Chemistry/Lab	AP	456-AP	11, 12	Full Year	5

400-H	Biology/Lab	Grade 9	Honors	Credits 5
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400-CP	Biology/Lab	Grade 9	CP	Credits 5
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This is a two semester, lab based biology course for incoming freshmen that prepares students for the biology MCAS test in June. This course is inquiry based instruction and emphasizes critical thinking, problem solving, and deductive reasoning. Biological topics are divided into units that include: Ecology, The Cell, Genetics, Evolution and the Human Body. **Honors level courses require a high degree of self-motivation, a strong work ethic, and the willingness to dedicate time outside of the classroom in self-study.**

410-H	Chemistry/Lab	Grade 10-12	Honors*	Credits 5
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410-CP	Chemistry/Lab	Grade 10-12	CP	Credits 5
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This is a college preparatory course with emphasis on basic principles of chemistry including concepts of energy, structure of matter, interactions of matter, states of matter, stoichiometry, and chemical equilibrium. It is a blend of mathematical principles applied to chemical concepts developed through experimentation. Laboratory investigation is an integral part of this course to develop key chemical concepts, teach basic laboratory techniques, and train students in data collection and analysis. **Honors level courses require a high degree of self-motivation, a strong work ethic, and the willingness to dedicate time outside of the classroom in independent-study.**

(*Honors Chemistry Recommendation: concurrently enrolled in Algebra II or teacher approval)

420-H	Physics/Lab	Grade 10-12*	Honors	Credits 5
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420-CP	Physics/Lab	Grade 10-12	CP	Credits 5
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This college preparatory course treats the study of physics as a continuing process whereby students seek to understand the nature of the physical world. Problem solving, using mathematics and laboratory work, are integral parts of the course. Topics covered include the study of motion, force, mass, momentum, energy, light and waves, electricity, and magnetism. This course is recommended for students interested in a career in engineering, the physical sciences, and/or those students who are entering a four year college degree program. **Honors level courses require a high degree of self motivation, a strong work ethic, and the willingness to dedicate time outside of the classroom in independent-study.**

(*Honors Physics Recommendation: A grade of “B-“ in Algebra II or teacher recommendation)

431-CP	Intro. to Physics and Chemistry/Lab	Grade 10-12	CP	Credits 5
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This college preparatory physical science program is based on the premise that science is an exploration and discovery of ideas about the universe, and that ideas and knowledge connect and enhance our lives. This course is based on an inquiry based learning approach. Students will complete experiments and hands on activities before conceptualizing ideas in the student readings.

433-CP	Environmental Science/Lab	Grade 11, 12	CP	Credits 5
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This college preparatory course deals with the environmental issues that are challenging our community, society, and world. After a review of relationships that exist between living things and the environment, students will examine the causes, effects and potential solutions to the major environmental concerns of today. These issues include the effects of human actions on the environment, such as pollution of air, land and water, depletion of natural resources and the impact of continued human population growth. Students will also look at solutions to these problems and methods that can be used to achieve environmental sustainability on a global, local, and personal scale.

447-CP	Anatomy and Physiology/Lab	Grades 10-12	CP	Credits 5
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Human Anatomy and Physiology is a laboratory-based course that investigates the structure and function of the human body. Topics covered will include the basic organization of the body; biochemical composition; and major body systems along with the impact of diseases on certain systems. Students will engage in many topics and competencies related to truly understanding the structure and function of the human body. Working from the topics of basic anatomical terminology to the biochemical composition of the human body, all the way into great detail of each of the major systems of the body, students will learn through reading materials, study guides, unit worksheets, group work, projects, and labs. Students will be responsible for proper use of lab equipment, lab reports, and projects assigned throughout each unit. One

of the goals of this course is to prepare students with the skills necessary to be successful in future science classes in college.

443-CP	Astronomy /Lab	Grades 11, 12 CP	Credits 2.5
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This is a college preparatory class. Astronomy is the study of the universe and is among the most rapidly developing of the physical sciences. This course will investigate terms such as “black hole”, “brown dwarf”, “quasar”, “pulsar”, “string theory”, and “quark stars”. These new concepts have revolutionized the current understanding of our universe. Goals of the course will be to stimulate scientific curiosity, to develop the ability to ask scientifically valid questions, to strengthen scientific communication skills, to interpret and use graphical information, and to acquire an understanding of the basic principles and concepts of astronomy.

445-H	Biotechnology/Lab	Grade 11, 12 Honors	Credits 2.5
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This course is designed to acquaint students with the diverse field of biotechnology. Topics will include a brief history of biotechnology, job opportunities in biotechnology, recombinant DNA and protein products, microbial biotechnology, plant biotechnology, medical biotechnology, and DNA fingerprinting and forensic analysis. Current ethical issues such as stem cell research and cloning will also be discussed.

449-CP	Forensic Science/Lab	Grades 11, 12 CP	Credits 2.5
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This college preparatory course is designed to challenge students with topics such as fingerprinting, DNA analysis, blood typing and spattering, trajectories (for ballistics as well as blood spattering), comparative anatomy, chemical analysis, and trace evidence. Students will learn about careers involved with Forensic Science and will play mock roles as experts in the field to solve crimes. Students will gain knowledge of forensic skills enabling them to interpret data and learn the techniques involved for both chemical and biological analysis of evidence

690-CP	Robotics /Lab	Grades 11-12	CP	Credits 2.5
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This is a beginning course in robotics with a STEM based curriculum designed to teach engineering, research, teamwork, and “real-world” problem solving. Students will be utilizing Lego Mindstorm kits, Robolab software and various Lego Robotics materials. This course will involve students in the development, building, and programming of a LEGO Mindstorm robot. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be programmed to compete in various courses as developed by First Lego League.

684-CP	Engineering & Design Tech I/Lab	Grades 10-12	CP	Credits 2.5
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This is a survey course in engineering and exposes students to some of the major concepts and disciplines in engineering. Students will have the opportunity to investigate engineering as a high tech career and will develop skills and understanding of course concepts through activity, project, and problem-based learning. This course will also allow students to develop strategies to enable and direct their own learning. **This course is recommended for students thinking of a career in any area of engineering, such as: aerospace, architectural, civil, electrical, industrial, mechanical, and materials.**

(Recommendation: A grade of “B” or better in 400 H/CP or teacher recommendation.)

Students signing up for Course 452 must attend a meeting with the course 452 teacher at which time the course expectations will be described and the summer assignment will be outlined.

***DE when available**

(Recommendation: A grade of “B” or better in PreCalculus and currently enrolled in Calculus)

Students contemplating taking AP Physics must attend a meeting with the teacher of those courses at which time the course expectations will be described and the summer assignment will be outlined.

456-AP	AP Chemistry/Lab	Grades 11, 12	AP	Credits 5
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Students who complete the requirements for this course are expected to take the advanced placement exam. Students contemplating taking AP Chemistry and Exam Prep must attend a meeting with the teacher of those courses at which time the course expectations will be described and the summer assignment will be outlined. Completion of the summer assignment is a requirement.

World Language Department

Ms. Beth Beauchesne, Lead Teacher Ext. 5007

World Language Graduation Requirement: 2 Years / 10 Credits

<u>Course Title</u>	<u>Level</u>	<u>Course #</u>	<u>Grade</u>	<u>Course Length</u>	<u>Credits</u>
American Sign Language 1*	CP	501-CP	9-11	Full Year	5
American Sign Language 2	CP	502-CP	10-12	Full Year	5
French 1	CP	511-CP	9-11	Full Year	5
French 2	CP	512-CP	10-12	Full Year	5
French 3	H/CP	513-H/CP	11-12	Full Year	5
French 4	H	514-H	12	Full Year	5
AP French	AP	516-AP	12	Full Year	5
Latin 1	CP	521-CP	9-11	Full Year	5
Latin 2	CP	522-CP	10-12	Full Year	5
Latin 3	H/CP	523-H/CP	11-12	Full Year	5
Latin 4	H	524-H	12	Full Year	5
AP Latin	AP	525-AP	12	Full Year	5
Spanish 1	CP	531-CP	9-11	Full Year	5
Spanish 2	CP	532-CP	10-12	Full Year	5
Spanish 3	H/CP	533-H/CP	11-12	Full Year	5
Spanish 4	H	534-H	12	Full Year	5
AP Spanish	AP	536-AP	12	Full Year	5
Hispanic History & Culture	CP	550-CP	10-12	Semester	2.5
History of Languages	CP	551-CP	10-12	Semester	2.5

**This course runs alternate years, it will not run during the 2021-2022 school year.*

501-CP American Sign Language I* Special Arrangement CP Credits 5

This course will focus on visual and expressive use of language, such as facial expression, mime, and gesture. It will also focus on being able to sign letters of the alphabet, numbers from 1 to 100, formal and informal introductions, asking basic questions, physical characteristics, reactions and opinions, telling time, and giving directions. Participants develop their skills through videotapes, classroom participation, and readings that cover issues important to the Deaf community. Heavy emphasis on culture. ***American Sign Language fulfills the foreign language graduation requirement at Tewksbury Memorial High School. Although, American Sign Language also meets the foreign language requirement for admission into many colleges, some do not accept American Sign Language. Students and parents are encouraged to contact a particular College Admissions Office to see if American Sign Language is accepted as an entrance requirement.***

**This course runs alternate years, it will not run during the 2021-2022 school year.*

502-CP American Sign Language II Special Arrangement CP Credits 5
(Recommendation: Successful completion of course 501-CP)

American Sign Language II expands on the skills gained in American Sign Language I. This course is designed to continue development of visual and expressive use of language, vocabulary, issues important to the Deaf community, cultural awareness, and terminology. Through activities and prompts, students will communicate through dialogue, with partners and in small groups. Heavy emphasis on culture.

American Sign Language fulfills the foreign language graduation requirement at Tewksbury Memorial High School. Although American Sign Language also meets the foreign language requirement for admission into many colleges, some do not accept American Sign Language. Students and parents are encouraged to contact a particular College Admissions Office to see if American Sign Language is accepted as an entrance requirement.

511-CP French I Grades 9-12 CP Credits 5

Over the course of the year, students build basic communicative proficiency to communicate about themselves, their daily life, their past-times, their family, and eating at a café. Students develop cultural understanding through the study of the French speaking world. ([Informational Video Link](#))

512-CP French II Grades 10-12 CP Credits 5
(Recommendation: Successful completion of Course 511-CP)

In this class, students polish the skills they begin in French I and expand on them. Your proficiency journey continues as you use more complex language to explore technology, leisure time, fashion, celebrations, food and housing, and travel. Students will interact with authentic resources to delve deeper into the cultures of the French-speaking world.

513-H French III Grades 11-12 Honors Credits 5
(Recommendation: 85% or better in Course 512-CP and intermediate low proficiency level.)

513-CP French III Grades 11-12 CP Credits 5
(Recommendation: A grade of “B” or better in Course 512-CP or Department Chairperson approval.)

In this class, you will enhance your proficiency in the ability to address a French-speaking audience. Proficiency will progress through the development of skills across the interpersonal, interpretive and presentational modes of communication. You will develop your cross-cultural understanding and language skills through various themes and contexts including stories of art, legends and film. Highlights include units about the black and white photography of Robert Doisneau, storytelling including legends, a French film, and health and wellness.. Class is conducted in French. ([Informational Video Link](#))

514-H French IV Grades 12 Honors Credits 5
(Recommendation: A grade of “B” or better in Course 513-CP or Department Chairperson approval.)

The French IV honors course is a proficiency-based program which thematically explores many aspects of the richness of life and culture in the French-speaking world. Proficiency will progress through the development of skills across the interpersonal, interpretive and presentational modes of

At the end of the course, students are encouraged to take a national standardized exam to assess proficiency. [*Informational Video Link*](#)

(Recommendation: A grade of “A” in Course 514-H and teacher recommendation)

521-CP	Latin I	Grade 9-12	CP	Credits 5
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522-CP	Latin II	Grade 10-12	CP	Credits 5
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(Recommendation: Successful completion of Course 521-CP.)

Students in Latin II are presented with a proficiency-based program where stories are the foundation for learning Latin. As students encounter Celtic and Egyptian deities, customs, and history in Roman Britain and Alexandria, their ability to use the Latin language will increase. As with Latin I, students studying Latin II will also improve their English vocabulary by examining links to Latin. Junior Classical League memberships and field trips are optional. ([Informational Video Link](#))

523-H	Latin III	Grade 11-12	Honors	Credits 5
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(Recommendation: 85% or better in Course 512-CP and intermediate low proficiency level.)

523-CP	Latin III	Grade 11-12	CP	Credits 5
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(Recommendation: A grade of “B” or better in Course 522-CP or Department Chairperson approval.)

Students continue to study different sites of the Roman Empire. They advance their knowledge of vocabulary, both in English and Latin, and examine new structures in the language. Through selected readings the comprehension of Latin in authentic literary works increases. Junior Classical League membership and field trips are optional. ([Informational Video Link](#))

524-H	Latin IV	Grade 12	Honors	Credits 5
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(Recommendation: A grade of “B” or better in Course 523-CP or Department Chairperson approval.)

At the end of the course, students are encouraged to take a national standardized exam to assess proficiency. ([Informational Video Link](#))

536-AP	AP Spanish	Grade 12	AP	Credits 5
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(Recommendation: A grade of “A” in Course 535-H or Course 534-H or teacher recommendation)

The content of the course is structured around six specific themes to promote exploration of the language in context and develop students' understanding of the target culture. The themes are: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. Students will demonstrate the ability to perform in the target language within three modes of communication: Interpersonal Mode, Interpretive Mode, and Presentational Mode. Students will also demonstrate an understanding of the culture(s), incorporate interdisciplinary topics, make comparisons between cultures, and use the target language in real-life settings. ([Informational Video Link](#))

Students who complete the requirements for this course are expected to take the advanced placement exam.

550-CP **Hispanic Culture and History** **Grade 10-12** **CP** **Credits 2.5**

This semester course will study the history and culture of various Hispanic countries, focusing on those with ties to the United States. Through film, digital and print materials students will learn about Latin American music, the Cuban and Mexican revolutions, immigration, and Spanish colonization of Latin America. Each unit will be introduced with a brief study on food, geography, and other cultural aspects essential to that country. This class will be taught in English. ([Informational Video Link](#))

<u>551-CP</u>	<u>History of Language</u>	<u>Grade 10-12</u>	<u>CP</u>	<u>Credits 2.5</u>
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This semester-long course will teach students how language develops. We will begin with the road to vulgar Latin. Then we will discuss how Latin helped with the creation of Medieval French and Spanish. From there, students will explore the transition and influences that shaped Modern French and Spanish that is spoken today. Finally, we will examine how dialects and the current events of today affect language and hypothesize language change. ([Informational Video Link](#))

Ms. Nicole LaPierre, Lead Teacher Ext. 5043

Fine Art Graduation Requirement: 1 Semester / 2.5 Credits

580-CP	Drawing I	Grade 9-12	CP	Credits 2.5
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581-CP	Drawing II	Grade 10-12	CP	Credits 2.5
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582-CP	Foundations in Art	Grades 9-12	CP	Credits 2.5
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Course List

This course explores basic techniques using watercolor, tempera, and acrylic paint. Color theory, composition, and design will be reinforced. Students will create and critique original paintings and will participate in student exhibits. ([Informational Video Link](#))

Building on concepts from Painting 1, students will continue to strengthen their visual skills. Students will learn how to select an effective and personal approach to using techniques and thematic content to develop personally meaningful paintings. Students will also develop their visual vocabulary and their oral communication skills. Students will gain an understanding of the proper use of materials. They will be growing toward a knowledge and ability level necessary to create effective works of art through painting, presenting their work, and responding to other's art.

This course will explore the proper preparation of clay and develop skills in hand built projects, such as coil, slab, the potter's wheel and sculpture. The use of glaze, texture and color will be important considerations to the end products.

(Recommendation: Successful completion of Ceramics I)
This course will take the student beyond the basic hand building and pottery wheel projects learned in Ceramics I. It is designed for the advanced student who desires to explore the medium in a more comprehensive way. Attention will be given to higher quality and time intensive projects. Students will explore advanced throwing, texturing, and glazing techniques. Students should have an excellent ability to work responsibly and independently.

This is a great course for those who like to build with their hands. We will build projects made from wood, cardboard, papier - mache, wire, molds with clay, plaster, and any suitable found materials. Sample projects may include woodcarving with letters and designs, cardboard animals, and kinetic wire portraits. Students will be introduced to the elements and principles of design in three-dimensional form. [*\(Informational Video Link\)*](#)

This course will familiarize the beginning art student with the elements and principles of design. Students will learn how to construct an artistic composition to show visual movement, mood, form, space, and spatial relationships of objects, proportionate harmony, and overall unity. This course explores design concepts and challenges. In this class, students receive a strong, broad based foundation in the visual arts through instruction in drawing, painting, design, printmaking, and sculpture in a studio setting. The elements and principles of design are emphasized through the communication of ideas and skill development in new and familiar media.

The first term of this course will cover traditional black and white chemical photography. The techniques of developing and printing photographs, and printing and exhibiting final prints will be taught. Projects will emphasize concepts of available light photography, portrait, experimental, and documentary photography. Emphasis will be placed on work which depicts strong narrative content and sound basic technical skills. Each student should have his/her own 35mm manual film camera and digital camera.

590-CP	Photography II	Grades 10-12	CP	Credits 2.5
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(Recommendation: Successful completion of Photography I)

This course will take the student beyond the basic picture taking and darkroom techniques of chemical and digital photography learned in Photo I. It is designed for the advanced Photography student who desires to grow and expand upon their work. Attention will be given to developing a body of work that expresses not only sound technical skills, but a higher level of thinking. Students will further explore digital darkroom and shooting techniques using the Adobe Photoshop software program. Students must provide their own manually operated 35mm film camera and digital camera. ([Informational Video Link](#))

591-CP	Digital Imaging	Grade 9-12	CP	Credits 2.5
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Digital Imaging is a course that provides an introduction to virtual photographic darkroom editing processes and digital design, including web and graphic design. The course will provide students with a fundamental knowledge of digital image manipulation and design using Adobe Photoshop, Illustrator, and InDesign. Students will explore all aspects of digital design including typography and the relationship between type and image. This class will serve students interested in an art class using a digital medium.

592-H	Senior Art Studio	Grade 12	Honors	Credits 5
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(Recommendation: Two art courses & teacher recommendation or Dept. Chairperson approval.)

This course is designed to assist the **serious art student** to develop his/her art talent. The student determines what medium is to be worked in and sets goals that are obtainable in two terms. Portfolio development for college entrance is a major consideration. The highly motivated student interested in serious study of art should apply. Students may present themselves as candidates for Advanced Placement Studio Art---General Portfolio or Drawing Portfolio. This is optional and is determined with teacher guidance during the first term of course development. *Due to the unique type of student assessment, there are no exemptions from the scheduled midterm or final exams.* ([Informational Video Link](#))

593-AP	AP Art History	Grade 11, 12	AP	Credits 5
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This full year course will explore major forms of artistic expression including architecture, sculpture, painting and other media from across a variety of cultures. Learn about the purpose and function of art as you develop your ability to articulate visual and art historical concepts in verbal and written form.

Students who complete the requirements for this course are expected to take the advanced placement exam.

Performing Arts Department

Ms. Nicole LaPierre, Lead Teacher Ext. 5043

Performing Arts Graduation Requirement: 1 Semester / 2.5 Credits

<u>Course Title</u>	<u>Level</u>	<u>Course #</u>	<u>Grade</u>	<u>Course Length</u>	<u>Credits</u>
Concert Band	H	600-H	9-12	Full Year	5
Concert Band	CP	600A-CP	9-12	Semester	2.5
Chorus	CP	602-CP	9-12	Full Year	5
Chorus	CP	602A-CP	9-12	Semester	2.5
Intro To Guitar	CP	610-CP	9-12	Semester	2.5
Music Theory	CP	612-CP	10-12	Semester	2.5
Popular Music: History & Styles	CP	618-CP	9-12	Semester	2.5
Theater Arts	CP	620-CP	9-12	Semester	2.5
Musical Theater Production	CP	622-CP	10-12	Semester	2.5
Technical Theater	CP	623-CP	9-12	Semester	2.5
Digital Media I	CP	630-CP	9-12	Semester	2.5
Digital Media II	CP	631-CP	10-12	Semester	2.5
Media Communications	CP	632-CP	9-12	Semester	2.5

<u>600-H</u>	<u>Concert Band</u>	<u>Grade 9-12</u>	<u>H</u>	<u>Credits 5</u>
<u>600A-CP*</u>	<u>Concert Band</u>	<u>Grade 9-12</u>	<u>CP</u>	<u>Credits 2.5</u>

Concert Band is a **full-year** course (**half-year course available upon written approval by band director**) and is open to all students who can demonstrate acceptable playing ability on wind and percussion instruments. The ensembles study and perform a variety of literature. The band performs several concerts during the school year, participates in contests, performs at graduation, and performs for various community functions. Performances are required and participation will be reflected in the student's grade. Students are required to attend and perform at after school rehearsals, parades, competitions, school functions and many additional events outside the school day. This course meets the Performing Arts graduation requirement and can be retaken for credit every year.

***Half-year course must have written approval by the band director.**

(Recommendation: Middle School Band and/or Extensive Private Music Lessons)

<u>602-CP</u>	<u>Chorus (full-year)</u>	<u>Grades 9-12</u>	<u>CP</u>	<u>Credits 5</u>
<u>602A-CP</u>	<u>Chorus (semester)</u>	<u>Grades 9-12</u>	<u>CP</u>	<u>Credits 2.5</u>

This course is open to all students in grades 9-12, regardless of any previous experience. The chorus sings music from a variety of genres, languages, and time periods. Students will learn techniques for singing in an ensemble setting. The chorus performs at several concerts during the school year, participates in contests, and performs for various community functions. Students are required to

participate in after school rehearsals and attend all performances and participation will be reflected in the student's grade. This course can be taken as a semester or full-year course.

610-CP Introduction to Guitar **Grades 9-12** **CP** **Credits 2.5**

This introductory course is offered to students in grades 10-12 who are interested in learning to play the guitar. Although students with prior knowledge can take the course, the focus of this course is geared towards students with no prior knowledge or skill on the guitar. Students will learn how to read and play traditional notation, as well as chords, strumming patterns, and tablature. This is a performance based class, and in-class playing tests are part of the student's grade. Guitars are provided, but students may also use their own guitar. In addition, students will research and write about guitarists from the past 70 years.

612-CP Music Theory: Fundamentals of Music **Grade 10-12** **CP** **Credits 2.5**

This course is designed to introduce students to the basic principles of music notation and theory. Students will learn to read and analyze musical notation. Students will also improve their music listening skills through a series of ear training exercises. Topics discussed will include: major and minor scales and key signatures, time signatures, intervals, triads and seventh chords. There are no prerequisites for this course, as it is an entry level music course. This course is a prerequisite for Music Theory II: Harmony and Composition.

618-CP Popular Music: History & Styles **Grades 9-12** **CP** **Credits 2.5**

In *Popular Music*, you will study the music in the United States focusing on the 20th and 21st century. The course will study musical styles including: Jazz, Musical Theater, Pop, Rock, and Folk Music. Students will listen to and react to music based on discussions of the styles and their importance within the context of American history in addition to learning the basics of music performance using the guitar.

620-CP Theater Arts **Grades 9-12** **CP** **Credits 2.5**

Get up on your feet and out of your desk to learn the basics of acting and theater production. You'll learn how a show is created through games, activities, and discussion. Develop a character like Will Ferrell or work behind the scenes to create your own show. There is no connection to the after school TMHS Theater Company and no after school time is required.

622-CP Musical Theater Production **Grades 10-12** **CP** **Credits 2.5**

This active class will keep you singing and dancing to your favorite Broadway tunes and popular hits. While building your musical skills, students will also focus on the history of musical theater and its development over the last 100 years.. There is no connection to the after school TMHS Theater Company and no after school time is required.

623-CP Technical Theater **Grades 10-12** **CP** **Credits 2.5**

This course is an introduction and exploration of theatrical design and technical theater. Technical theatre is a semester course designed for the student interested in the non-performance side of theatre. Topics covered are: The theater and its parts, the history of theatre, types of theaters, in-depth study of a script, set design, lighting design, sound design, prop design and construction, costume and make-up considerations, theatre safety, and jobs in technical theatre. Technical theatre will incorporate academic study and hands-on application of skills. Students will learn the ins and outs of what goes into producing a show from the perspective of the technical crew, the designers, and the director. To achieve this, students will work on hands-on projects where they design sets, build props, and learn about how

to market a theatrical show. Each student will be required to attend one school production during the semester.

630-CP	Digital Media I	Grades 9-12	CP	Credits 2.5
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Get a behind the scenes look at all the basics of making strong, visually driven video projects with an emphasis on narrative storytelling. This course focuses on the basics of video production and editing, story development, scriptwriting, music, and aesthetic. Skills in Final Cut Pro X are learned through creating original videos from conception to exhibition. This course requires the use of video equipment available by check-out, and Mac desktops with Final Cut Pro X in the classroom. **This is a project based class and available to all grade levels.**

631-CP	Digital Media II	Grades 10-12	CP	Credits 2.5
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Through producing original videos, students will gain a deeper understanding of video editing and story writing from conception to exhibition. Students will develop videography skills by completing projects during the semester that require formulation of original ideas that carry through the production process with an added focus on audio production and sound design. Students will exhibit digital literacy skills in learning editing techniques on Final Cut Pro X, and aesthetic valuing by engaging in critiques in all stages of the production process. This course is project based, and picks up where students would have left off in Digital Media I with an introduction to animation and the Adobe After Effects program.

Open to students in grades 10, 11, and 12 with a passing grade in Digital Media I (or can display a quality product equivalent to be approved by the course instructor.)

632-CP	Media Communications	Grades 9-12	CP	Credits 2.5
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Blending written and oral communication, students will develop the ability to speak publicly, listen actively, and demonstrate proper practice for productive and purposeful communication. Scriptwriting for broadcast news will be a primary focus. Practical application of these skills will lead to the creation and operation of in class news shows in our TMHS TV studio. Students will learn the necessary operational skills of a portable studio, as well as the workings of a professional newsroom. Class content will be based on current events and news stories. Students will access news content through the internet from major and local TV news networks.

Open to students in all grade levels. This course is recommended for those students thinking of a career in public relations, journalism, communications, and sports entertainment.

CTBE Department

Ms. Mary Kelleher, Lead Teacher

CTBE Graduation Requirement: 2 Courses / 5 Credits

<u>Course Title</u>	<u>Level</u>	<u>Course #</u>	<u>Grade</u>	<u>Course Length</u>	<u>Credits</u>
Child Care 1	CP	641-CP	9-12	Semester	2.5
Child Care 2	CP	642-CP	10-12	Semester	2.5
Child Care 3	CP	643-CP	11, 12	Semester	2.5
Web Design & Visual Communication *	CP	651-CP	9-12	Semester	2.5
Introduction to Computer Programming *	CP	654-CP	10-12	Semester	2.5
Digital Literacy *	CP	655-CP	9-12	Semester	2.5
Introduction to Computer Science *	CP	656-CP	10-12	Semester	2.5
Game Design *	CP	657-CP	9-12	Semester	2.5
AP Computer Science Principles *	AP	659-AP	10-12	Full Year	5
Accounting	CP	661-CP	10-12	Full Year	5
Personal Finance	CP	663-CP	11, 12	Semester	2.5
Marketing 1	CP	664-CP	9-12	Semester	2.5
Marketing 2	CP	665-CP	10-12	Semester	2.5
Business Management & Marketing	CP	667-CP	10-12	Semester	2.5
Sports & Entertainment Marketing	CP	668-CP	10-12	Semester	2.5
Engineering & Design Tech 1	CP	684-CP	10-12	Semester	2.5
Engineering & Design Tech 2	CP	685-CP	10-12	Semester	2.5
Engineering & Design Tech 3	CP	686-CP	11, 12	Semester	2.5
Robotics	CP	690-CP	11, 12	Semester	2.5
Introduction to Health Careers	CP	710-CP	11, 12	Semester	2.5
Health Careers 2-NAT/HHA	CP	720-CP	12	Full Year	5

*satisfies graduation requirement for computer course

641-CP	Child Care I	Grades 9-12	CP	Credits 2.5
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A semester long course covering the following chapter topics: Responsibilities of Parenting, Building Strong Families, Prenatal Development, Preparing for Birth, The Baby's Arrival, Physical and Intellectual Development, Emotional and Social Development, Children's Health and Safety, and Family Challenges. This is an excellent course to learn about parenting and careers that involve young children. ([Informational Video Link](#))

(Recommendation: Successful completion of course Child Care I)

(Informational Video Link)

(Recommendation: Successful completion of course Child Care II)

After completing Child Care I and Child Care II, a student can gain experience in the operation of a preschool. The four year old child is studied in depth and is observed as he/she interacts within the pre-school atmosphere. A “hands on” approach is used in the preschool so that high school students can interact with the four year old child during lessons. The high school student will also be responsible for the development of lessons in the preschool. This course will offer experience for entry level jobs in daycare or for preparing the student for careers in early childhood education. (*Informational Video Link*)

Students will understand the elements that make an effective website and the factors that influence a user experience (UX). Students will use this knowledge to assess the effectiveness of websites and make recommendations for improving user experience. Students will create websites using website builders (such as Google Sites). Students will learn HTML, CSS and JavaScript and use the knowledge of those tools to customize their websites. [*\(Informational Video Link\)*](#)

**satisfies computer graduation requirement*

This course is designed for the motivated student who is planning on a career in computer science or engineering. Through programming in different languages (including C++ and Python), students will learn about data types, selection structures, strings, functions and classes. This course is recommended for students thinking of a career in computer science, engineering, graphic arts, web design, and software design. By enrolling in this course, you will be eligible to participate in the TMHS DECA program. **satisfies computer graduation requirement*

This course provides students a foundational understanding of the technological building blocks to critically interpret digital media, and to author powerful and effective digital documents. Students have the opportunity to practice and develop a working knowledge of the key digital concepts and 21st century skills critical to becoming lifelong learners. **satisfies computer graduation requirement*

Students will understand the elements that make an effective website and the factors that influence a user experience (UX). Students will use this knowledge to assess the effectiveness of websites and make recommendations for improving user experience. Students will create websites using website builders (such as Weebly, Wix or Wordpress). Students will learn HTML, XHTML and CSS and use the knowledge of those tools to customize their websites. ([Informational Video Link](#))

**satisfies computer graduation requirement*

654-CP Intro to Computer Programming Grades 10-12 CP Credits 2.5

This course is designed for the motivated student who is planning on a career in computer science or engineering. Through programming in different languages (including C++ and Python), students will learn about data types, selection structures, strings, functions and classes. **This course is recommended for students thinking of a career in computer science, engineering, graphic arts, web design, and software design.** By enrolling in this course, you will be eligible to participate in the TMHS DECA program. **satisfies computer graduation requirement*

655-CP Digital Literacy Grades 9-12 CP Credits 2.5

This course provides students a foundational understanding of the technological building blocks to critically interpret digital media, and to author powerful and effective digital documents. Students have the opportunity to practice and develop a working knowledge of the key digital concepts and 21st century skills critical to becoming lifelong learners. **satisfies computer graduation requirement*

656-CP Intro. to Computer Science Grades 10-12 CP Credits 2.5

Students will understand how computing devices work. Students will learn how the major components of a computer system interact with each other and use troubleshooting strategies to solve routine hardware problems. Students will learn how to write and debug algorithms in a structured language. The course will cover how different data representation affects storage and quality. Students will understand how networks communicate, and vulnerabilities and issues that may impact their functionality. Students will analyze the impact and intent of the new technology laws, understand safety and security concepts, and security and recovery strategies. Students will also examine the impact of technology, assistive technology, technology proficiencies and cybercrime in people's lives, commerce and society. ([Informational Video Link](#)) **satisfies computer graduation requirement*

657-CP Game Design Grades 9-12 CP Credits 2.5

Game Design is a first semester course designed that introduces programming to high school students. Students learn how to code by working in a real software development environment to design, program, and publish mobile apps and games. Working in the same ways that professional programmers do and creating real games or apps, students learn how to make amazing things and to have a real world impact. **satisfies computer graduation requirement*

659-AP AP Computer Science Principles Grades 10-12 CP Credits 5.0

Students will develop computational thinking skills vital for success across all disciplines such as using computational tools to analyze and study data, and 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 computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems. ([Informational Video Link](#)) **satisfies computer graduation requirement*

Prerequisite - Completion of freshman algebra and currently taking Algebra II. Students should also be able to use a Cartesian (x, y) coordinate system to represent points in a plane.

661-CP Accounting Grades 10-12 CP Credits 5

Students will first learn the accounting cycle with emphasis on theory and application. Topics will include principles of beginning accounting, financial statements, journals, ledgers, adjustments and payroll. Projects involving the computer will enhance the student's ability to solve problems. Forensic Accounting is a specialized form of accounting that uses auditing and investigation to determine if fraud

has taken place within a company. This course is recommended for students thinking of a career in general accounting, auditing, federal law enforcement, banking, and actuarial science. By enrolling in this course, you will be eligible to participate in the TMHS DECA program. ([Informational Video Link](#))

663-CP Personal Finance Grade 11, 12 CP Credits 2.5

This course will prepare students for their personal lives while becoming economically responsible. Areas of study will include: fundamental economic concepts, personal financial planning; financial pitfalls, budgeting, income, and money management (checking, savings, money market accounts, etc); spending, mortgages, student loans, credit and debt management; asset/insurance protection; financial statements; payroll; retirement planning; taxation; consumer practices and purchases: rights, responsibilities, and decision making processes. In each unit of the course, math skills will be emphasized and students will learn the value of applied mathematics. By enrolling in this course, you will be eligible to participate in the TMHS DECA program. ([Informational Video Link](#))

664-CP Marketing I Grades 9-12 CP Credits 2.5

Marketing I is a beginning course for retail and marketing students. Topics stressed are retail-marketing concepts for employees, managers, and entrepreneurs. It is designed as an entry-level course for students who plan to enter the business world. Students taking this course have the opportunity to participate in DECA, an association of marketing students. This course is recommended for students thinking of a career in business marketing, retail marketing, financial management, financial planning, insurance, actuarial work, and marketing research analysis. By enrolling in this course, you will be eligible to participate in the TMHS DECA program.

665-CP Marketing II Grade 10-12 CP Credits 2.5

(Recommendation: Grade of “C” or better in Marketing I)

Marketing II is an advanced course for retailing and marketing students who will focus on the problems and procedures in management. Students involved in this course will plan productions such as semi-formals and the annual DECA Fashion Show. DECA participation is highly recommended. This course is recommended for students thinking of a career in business marketing, retail marketing, financial management, financial planning, insurance, actuarial work, marketing research analysis, travel and tourism, and sports and entertainment. By enrolling in this course, you will be eligible to participate in the TMHS DECA program.

667-CP Business Management & Marketing Grades 10-12 CP Credits 2.5

Business Management and Marketing is a highly intensive course concentrating on the analysis, planning and control of marketing problems. Topics will include analyzing business opportunities, planning a market program, international marketing and marketing in the contemporary environment. Students in this course have the opportunity to participate in DECA, an association of marketing students. This course is recommended for students thinking of a career in business management, marketing, or management analysis, as well as being a management consultant, or owning your own business. By enrolling in this course, you will be eligible to participate in the TMHS DECA program.

668-CP Sports & Entertainment Marketing Grades 10-12 CP Credits 2.5

The course will focus around the operations, management and marketing of both fields. Some topics will include, but are not limited to Entertainment marketing, Marketing Information Management for Sports and Entertainment, Sports and Entertainment Economics, Sports and Entertainment Risk Management, The Sales Process, Marketing Basics of Sports and Entertainment, Entertainment Distribution, The Marketing Research Process, Demographics of Market Segmentation, The Product

Mix, Promotional Planning and Sponsorships. Students will obtain a knowledge and understanding of the field and how it works, along with obtaining 21st Century Skills. By enrolling in this course, you will be eligible to participate in the TMHS DECA program.

684-CP Engineering & Design Tech I Grades 10-12 CP Credits 2.5

This is a survey course in engineering and exposes students to some of the major concepts and disciplines in engineering. Students will have the opportunity to investigate engineering as a high tech career and will develop skills and understanding of course concepts through activity, project, and problem-based learning. This course will also allow students to develop strategies to enable and direct their own learning. **This course is recommended for students thinking of a career in any area of engineering, such as: aerospace, architectural, civil, electrical, industrial, mechanical, and materials.**

685-CP Engineering & Design Tech II Grades 10-12 CP Credits 2.5
(Recommendation: Successful completion of Engineering & Design Tech I)

This is an accelerated course, which allows the student to continue building on experiences attained while taking Engineering and Design Tech I. Math and science concepts are emphasized as the student uses the computer and their creativity to design and solve problems using the latest CAD software. Topics will include a review of commands used in operating AUTOCAD LT2000, single and multi-view drawings, applied geometric construction, auxiliary views, revolutions and sectional views. A more extensive study of commands as they relate to the software will comprise the remaining areas of study. **This course is recommended for students thinking of a career in any area of engineering, such as: aerospace, architectural, civil, electrical, industrial, mechanical, and materials.**

686-CP Engineering and Design Tech III Grades 11-12 CP Credits 2.5
(Recommendation: Successful completion of Engineering & Design Tech II)

This course will provide the student with the knowledge of basic structure and design elements of residential dwellings. The subject matter will include: general planning and design data, foundations and site work, excavation, footings and foundation walls, wood joists and rafter sizes, wood trusses, and roof construction. Using the computer, the student will develop a complete set of plans for a residential dwelling as well as a vacation retreat. This course will enhance your portfolio if you are considering a career in engineering. **The student taking this course may apply this as a computer requirement. This course is recommended for students thinking of career in any area of engineering such as: aerospace, architectural, civil, electrical, industrial, mechanical, and materials.**

690-CP Robotics/Lab Grades 11-12 CP Credits 2.5

This is a beginning course in robotics with a STEM based curriculum designed to teach engineering, research, teamwork, and “real-world” problem solving. Students will be utilizing Lego Mindstorm kits, Robolab software and various Lego Robotics materials. This course will involve students in the development, building, and programming of a LEGO Mindstorm robot. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be programmed to compete in various courses as developed by First Lego League.

710-CP Introduction to Health Careers Grade 11, 12 CP Credits 2.5

Introduction to health careers offers students the opportunity to explore the multitude of career options available in health care. Students will also start to develop specific skills related to health careers such as taking vital signs, medical math, the metric system, medical abbreviations and terminology.

Students will have the opportunity to observe and interact with healthcare professionals from local facilities.

720-CP Home Health Aide (HHA) Grade 12 CP Credits 5

Home Health Aide course prepares high school students to work as a home health aide in nursing homes, and in private homes. The prime intent of the program is to provide students with career entry skills that enable them to be employed as state certified home health aides. Students will also gain knowledge about potential careers as LPNs and RNs. Lastly, students will gain knowledge about their own bodies and diseases, both mental and physical.

Wellness Department

Mrs. Julia Fabiano, Lead Teacher 640-7800 ext. 5053

Wellness Graduation Requirement: Health 5 Credits, P.E. 10 Credits

<u>Course Title</u>	<u>Level</u>	<u>Course #</u>	<u>Grade</u>	<u>Course Length</u>	<u>Credits</u>
Health 1	CP	812-CP	9	Semester	2.5
Health 2	CP	822-CP	11	Semester	2.5
Physical Education	CP	831-CP	9-12	Semester	2.5

812-CP	Health I	Grade 9	CP	Credits 2.5
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This course focuses on personal health issues and healthy life choices. Classroom topics covered address dimensions of wellness that include but are not limited to emotional, intellectual, physical, and social wellness. Course content is revised yearly to maintain currency with critical topics that align with TMHS student needs. Throughout the study of health topics, students will engage in development of skills such as communication, self-management, decision making, and goal setting.

822-CP	Health II	Grade 11	CP	Credits 2.5
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This course is designed to prepare students to navigate future health topics on a more mature level, and will include current health issues, personal health issues, and community & global health. Classroom topics covered address dimensions of wellness that include but are not limited to emotional, multicultural, intellectual, physical, financial, and environmental wellness. Course content is revised yearly to maintain currency with critical topics that align with TMHS student needs. Throughout the study of health topics, students will engage in development of skills such as communication, self-management, decision making, and advocacy.

831-CP	Physical Education	Grade 9-12	CP	Credits 2.5
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Physical Education students will acquire the essential knowledge and skills required to lead an active healthy life, as well as, participate in a variety of team sports and individual wellness pursuits. Physical Education is a required course. Students will be able to choose activities by their grade level and wellness interests. All students must take a minimum of 4 semesters of Physical Education.

Additional Course Offerings

Global Studies

Please see the [Global Competency website](#) for specific information.

9007-GT Global Thought Grade 11-12 CP Credits 2.5

Global Thought uses various genres of cross-cultural literature as a foundation for understanding global issues, while challenging students to think critically and empathetically about their role as an American and global citizen. This course specifically uses a variety of literary works, including novels, graphic novels, memoirs, short stories, personal essays and speeches to navigate topics of cultural identity, public health, equality and human rights, and the American subconscious.

Edgenuity

Edgenuity provides engaging online and blended learning education solutions that propel success for every student. Edgenuity delivers a range of Core Curriculum, AP®, Elective, Career and Technical Education (CTE), and Credit Recovery courses aligned to the rigor and high expectations of state, Common Core and iNACOL standards and designed to inspire lifelong learning. All Edgenuity classes are teacher facilitated. Class sizes are limited to 25 students with a strong emphasis placed on student and teacher interaction. Classes take place entirely over the Internet and are accessible to students anytime and anywhere. Students have the ability to post work to their class any time, day or night. Classes follow the school schedule and assignments are due at specified weekly intervals. All courses and student work are closely monitored by the site coordinator.

Please note:

- Juniors and seniors in good standing will be eligible to take one Edgenuity course per year.
- Students must have good attendance, grades, and behavior records.
- This is a supplemental program to TMHS course offerings.
- Students successfully completing full year Edgenuity courses will earn 5 credits and half-year, elective courses will earn 2.5 credits.
- Exceptions per approval of the Principal.
- Edgenuity courses may be taken for enrichment purposes over the summer with prior approval of the Principal.
- Students will receive a grade of Pass/Fail and will not be factored into GPA calculations.

9008-CP Edgenuity Special Arrangement CP Credits 2.5/5

Students enrolled in standard level Net Courses are expected to participate with the same level of dedication and intensity as in traditional face to face classrooms. These students are required to be actively engaged in their coursework for approximately 10-12 hours per week. **This course is graded on a Pass/Fail basis and will not count into the student's GPA.**

Experiential Learning

Tewksbury Memorial High School recognizes the value of career-related internships and learning opportunities outside of the classroom and encourages participation in this program. These courses are credit-bearing but may not be applied toward the graduation requirements (see page 5).

9000 Pathways Internship Grade 11 by Special Arrangement Credits 2.5

The Innovation Pathways Internship Program allows students the option to work with or shadow a person or persons to explore career opportunities. Internships will be counted as an elective and will be taken during the summer between junior and senior years. Students must complete an appropriate application **before** completing course requests with their guidance counselor. Students will be required to complete weekly time cards and journals. They are also expected to complete assignments related to their internship. **This course is graded on a Pass/Fail basis and will not count into the student's GPA.**

9020 IP Skills & Strategies Grade 10-11 by Special Arrangement Credits 2.5

This course is a requirement for students enrolled in the Innovation Pathways program at TMHS. It must be taken during either the student's 10th or 11th grade year. The course is designed to prepare students for their future career goals and their Innovation Pathways summer internships. This is done through various assignments that require reflective journaling and self-exploration. Some of the lessons include preparing for job interviews, building a resume, developing strong communication skills, workplace etiquette, and putting together a work portfolio. **This course is graded on a Pass/Fail basis and will not count into the student's GPA.**

9011 Experiential Learning Special Arrangement Credits 1

Students/teachers may submit proposals for learning opportunities **outside** of the traditional school day for enrichment credit. These courses must be approved by the TMHS Principal and the Assistant Superintendent of Curriculum and Instruction. **These courses will be graded on a Pass/Fail basis and will not count into the student's GPA.**

MTSS and Additional Supports

901-CP Academic Skills and Strategies 9-10 Special Arrangement Credits 2.5

This course can be taken for one or more semesters. Students will learn to develop the ability to enhance their study skills through learning to maintain routines, organize work, improve reading comprehension, take notes from both written and oral sources, develop memorization strategies, and prepare for tests, including the MCAS exam. These skills will be introduced, practiced and reinforced throughout the course and will enhance student preparedness across all academic areas. Students will be allowed time that has been built into the curriculum, to apply acquired knowledge to their current academic work. **This course is graded on a Pass/Fail basis and will not count into the student's GPA.**

902-CP Academic Skills and Strategies 11-12 Special Arrangement Credits 2.5

This course can be taken for one or more semesters. This class is designed to prepare students for their future goals and assist them in learning how to achieve their goals. This is done through various assignments that include class discussions, partner work, reflective journaling, class presentations, written work and creative exploration. Some of the topics that will be discussed will include learning

styles, organizational skills, and study skills. Students will also improve their learning effectiveness through critical thinking skills, test taking strategies (PSAT, SAT, ACT, etc.), note taking skills and other study methods. The course will also introduce students to career and other job options through interest inventories and research projects. These skills will be introduced, practiced and reinforced throughout the course and will enhance student preparedness across all academic areas while also helping to prepare them with the expectations of post secondary careers and/or education. **This course is graded on a Pass/Fail basis and will not count into the student's GPA.**

906-CP Writing Lab **Special Arrangement** **Credits 2.5**

This class is designed to help students make effective progress with their writing based upon recommendation of their English classroom teacher or guidance staff. This course uses several specialized methodologies to engage students in the writing process. High emphasis on explanatory writing, argumentative writing, and narrative writing. Students will utilize different graphic organizers and direct instruction on thesis/claims, sentence structure, paragraph development, organization, and transitions. Students will also be provided with study strategies for vocabulary and test preparation. Students can apply these skills in all of their academic courses. Some reading material is assigned to facilitate discussion and writing assignments. **This course is graded on a Pass/Fail basis and will not count into the student's GPA.**

960-CP Math Lab **Special Arrangement** **Credits 2.5**

This class is designed to help students make effective progress with their mathematics content knowledge. Students will be placed in this course based upon recommendation of their math teacher or guidance counselor. The teacher of this course will work closely with the student's current math teacher to provide individualized support.

This course is graded on a Pass/Fail basis and will not count into the student's GPA.

900-ELL ELL Support **Special Arrangement** **Credits 2.5**

Students who have been identified as English Language Learners, and meet the set recommendations set forth by the ACCESS assessment, will receive ELL Support.

Special Education Department

Mr. Marco Basiliere, Lead Teacher 640-7856

Mr. Chuck Zucco, Case Manager 640-7856

In addition to the courses described in the previous section, Tewksbury Memorial High School offers an array of special education services to meet the individualized needs of diverse learners. Please contact Chuck Zucco, Case Manager, for specific questions about services.

Specialized Instruction **Special Arrangement** **Credits 5.0**

The special education department offers small group core courses that follow subject course curriculum with specialized instruction in several core content areas.

904-CP Directed Learning I **Special Arrangement** **Credits 2.5**

The goal of this mixed-grade level course is to provide a practical approach to learning and implementing executive function strategies to help with the transition of post-secondary goals. The objective is to improve students' independent study skills while providing them with additional teacher support in individual academic needs across the curriculum. This will enable students to be more successful in their high school content subjects, to be active learners, enhance their organizational skills, and to be better prepared for independent learning.

905-CP Directed Learning II **Special Arrangement** **Credits 2.5**

Directed Learning II is designed to meet the cognitive, social emotional learning, and transitional needs of special education students. Additionally, it provides a therapeutic environment which meets the social emotional learning needs of students who require a higher level of support.

Life Skills Grades 9-12 **Special Arrangement** **Credits 5**

TMHS Life Skills Program serves students with cognitive and language delays that impact overall functioning. The Massachusetts Curriculum Frameworks are addressed at access and entry points. The program addresses students' needs in the areas of functional academics, communication, vocational preparation, independent living, and social, recreation/leisure, and life skills are addressed within both the school program and the community environment. The use of positive reinforcement and success-oriented activities provide students a constructive framework to focus on personal goals. The inclusionary experiences include the high school and the community.

Special Education Teachers/Student Liaisons

The special education teachers at Tewksbury Memorial High School also act as specialized liaisons for all students identified with special needs and who are enrolled on an Individualized Education Plan (IEP). Students will meet with their liaisons regularly throughout the school year.