

MANCHESTER HIGH SCHOOL



2024-25 PROGRAM OF STUDIES

MANCHESTER HIGH SCHOOL

VISION

All students will develop the tools necessary to become productive, responsible members of society.

MISSION

As a School community we are committed to:

- Living our Core Values of Respect, Responsibility, Integrity, Kindness and Perseverance
- Ensuring a high quality education for all
- Continuously improving practices to maximize learning for all
- Fostering positive partnerships among students, parents, families, school personnel and the community
- Maintaining a safe and inclusive school where equity is the norm and excellence is the goal

CORE VALUES, BELIEFS, AND LEARNING EXPECTATIONS

Manchester High School is a diverse and inclusive community. We believe every student can achieve excellence through unique learning experiences. We are committed to engaging students in a rigorous curriculum that fosters collaboration, supports individual growth and promotes authentic learning. Furthermore, our community encourages respect, integrity, perseverance and responsibility as students develop the mindset and character needed to be contributing members of our global society.

The Manchester High School community has identified the following learning expectations as our Vision of a MHS Graduate:

ACADEMIC, CIVIC, AND SOCIAL EXPECTATIONS

- **Critical Thinking:** Analyze and evaluate ideas, claims, evidence and/or representations to construct meaning.
- **Problem Solving:** Define problems and work through processes to determine solutions, draw conclusions, evaluate the reasonableness of solutions, and/or have a better understanding of problems.
- **Creative and Innovative Thinking:** Explore idea(s) through a meaningful, intentional process that inspires the development of a product, performance, or solution.
- **Collaboration:** Work together to share and evaluate knowledge and ideas by asking questions, listening actively, and respecting and considering the opinions of others in order to achieve a common goal.
- **Communication:** Express ideas and share information to effectively engage an audience for a given purpose and task.
- **Self-Direction and Process Monitoring:** Develop strategies and plans to manage time, accomplish goals, and monitor progress through feedback and reflection.
- **Cultural/Global Competence:** Examine how culture and conditions impact perspective, identity, and action.
- **Civic and Social Behavior:** Contributes positively to the school and global community.

Core Values

Respect: Being considerate of people, their ideas, your community and your school through your actions and words.

Responsibility: Taking ownership of and being accountable for your actions and choices.

Integrity: Doing the right thing, especially when it's difficult.

Kindness: Appreciating the feelings of others through your actions and words.

Perseverance: Challenging yourself to overcome obstacles to achieve success.

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Human Resources Specialist/Title IX Coordinator
Manchester Public Schools
45 North School Street
Manchester, CT 06042
860-647-3595

or

Marney Reardon, Coordinator of School Health Services
Section 504 Co-Coordinator
Manchester Public Schools
45 North School Street
Manchester, CT 06042
860-647-3324

ACCREDITATION STATEMENT

Manchester High School is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering postgraduate instruction.

Accreditation of an institution by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course of program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend this institution.

Inquiries regarding the status of an institution's accreditation by the New England Association should be directed to the administrative staff of the school or college. Individuals may also contact the Association:

New England Association of Schools and Colleges
209 Burlington Road Suite 201
Bedford, MA 01730-1433

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Technology Education	Eric Larson	860-647-3508
World Languages	Gina Carrese	860-647-3519

REQUIREMENTS FOR ENTRANCE TO GRADE 9

To enroll in Grade 9 at Manchester High School, a student must have a passing end of the year grade (in Grade 8) in all 4 full year academic courses (English, Mathematics, Science and Social Studies). Students who do not meet this requirement must successfully complete summer school in order to enroll in Grade 9.

REQUIREMENTS FOR GRADUATION

Beginning with the class of 2024, twenty-five credits are required for graduation. This must include a minimum of the following core requirements:

NEW GRADUATION REQUIREMENTS

25 Credits Required



- **Humanities (9.0 credits) at least:**
4.0 credits in ELA
3.0 credits in Social Studies including at least 1 credit in US History; 0.5 credits in Civics and .05 credits in Human rights
1.0 credits in the Arts
- **Health, Wellness & Safety (2.0 credits) at least:**
1.0 credit in Physical Education and Wellness Courses including at least 0.75 credits in Physical Education
1.0 credit in Health & Safety including at least 0.75 credits in Health
- **STEM (9.0 credits) at least:**
3.0 credits in Mathematics including Algebra 1 and either Algebra 2 or Statistics
3.0 credits in Science including at least 1 credit in Life Science and 1 credit in Physical Science
0.5 credits in Personal Finance
- **World Language (1.0 credit)**
- **Mastery-based Diploma Assessment (1.0 credit)**
- **Electives (3.0 credit)**

GRADE LEVEL DETERMINATION

GRADE 10:	6 CREDITS
GRADE 11:	11 CREDITS
GRADE 12:	18 CREDITS

The next page details which courses which meet each distributional graduation requirement. Relevant alternate experiences may be applied to meet the distribution requirements above in consultation with the principal or designee. To qualify for a diploma, a student must be in attendance at least the entire second semester of the senior year and must meet all graduation requirements.

Arts Requirement Courses	Humanities Requirement Courses		STEM Requirement Courses			Physical Education and Wellness Courses	Health and Safety Courses
All Art and Performing Arts courses, and those below	All English, Social Studies and Arts courses, and those below		All Math, Science and Tech. Ed. courses, personal finance, and those below			All PE courses and those below	All Health courses and those below
Creative Writing	EL courses	Marketing	Digital Art & Design	Ceramics (all levels)	First Aid	Nutrition & Fitness	Nutrition & Fitness
Fashion & Design 1, 2, 3	Fashion & Design 1, 2, 3	Intro to Business	Metalsmithing & jewelry	Pottery	Universal Health	Psychology	Culinary Electives
Interior Design	Interior Design	International Business	Adv. Microsoft Word	Sculpture	Hair & Makeup	Sports medicine	Human Development
Architecture	Architecture	Entrepreneurship	College Accounting	Drawing (all levels)	Cosmetology	Human Development	Anatomy & Physiology
Photography	Photography	Sports & Entertainment Management	Computer programming	Painting (all levels)	Music Entrepreneurship	GHAA Performing arts students	Psychology
Video Production	Video Production	Freshman Seminar	Microsoft Office Appl.	Digital Art	Songwriting		Investigating Health Careers (IHC)
Studio Production	Studio Production	World Language (after grad. Req. met)	Web Page Design	Psychology	Digital Music 1, 2		CNA
Tools and Materials	Tools and Materials		Interior Design & Housing	Criminology	AP Music Theory		EMT
Bake Shop 1 & 2	Bake Shop 1 & 2		Fashion & Design 1, 2, 3	Sociology	Financial Literacy		Lifeguarding
Intro & Advanced Culinary Arts	Advanced Culinary Arts		Marketing	Economics			Sport Medicine
International Foods	International Foods		Intro to Business	AP Microeconomics			World of Children
Radio Broadcasting	Radio Broadcasting		International Business	AP Psychology			30 hr. courses leading to a certificate in:
Sports Broadcasting	Sports Broadcasting		Entrepreneurship	Human Development			OSHA Certification
Broadcast Journalism	Broadcast Journalism		World of Children	Lifeguarding			Driver Ed
PAC Seminar	PAC Seminar		Early Childhood	Sports Medicine			Servsafe cert
Engineering & Design	Contemporary Journalism		Bake Shop 1 & 2	Nutrition & Fitness			CPR
Contemporary Journalism			International Foods	CPR			First Aid
Extended Learning as determined by principal or designee							

Graduation Requirements For Special Education Students

A special education student may earn a regular diploma by:

- satisfying all of the requirements for a regular diploma.
- classes may consist of all mainstream classes or a combination of mainstream and special education classes.

Exchange Students And Graduation:

- The student who is a senior but does not meet all of MHS graduation requirements will receive an "HONORARY" diploma and will be allowed to participate in the graduation ceremony.
- The student who fulfills all of the graduation requirements will receive a regular diploma, only if the student has not received a high school diploma or its equivalent from another system, including his or her country.

To Participate In The Graduation Ceremony:

- The student must have completed all graduation requirements prescribed by the Board of Education.
- All school obligations must be met.

Students who complete all graduation requirements in the Summer School session following their senior year are considered members of the previous June's graduation class; however, they cannot participate in the June graduation ceremony.

Students interested in mid-year graduation must see their school counselor by the end of the junior year.

SCHOLASTIC REQUIREMENTS

Students will not be automatically promoted to the next grade. The number of credits a student has earned by the end of summer school will be used to determine his/her grade classification.

Grade 10	6 credits
Grade 11	11 credits
Grade 12	18 credits

If you have any questions, please call your student's school counselor at (860) 647-3532.

Students who have not earned the above credits are advised to make them up in the summer if they are eligible. The total number of credits earned as of the end of the previous academic year is indicated on the report card. Students and parents should refer to this when computing credits for graduation.

SUMMER SCHOOL

The Manchester Summer School program offers students opportunities to make up some courses in which they have been enrolled, but have not received credit. Summer school courses may also be taken to improve grades for a sequential subject. In order to enroll in summer school students must have:

Earned a minimum final course grade of 40%

- Attended class for a minimum of 70% of the course
- Taken the final exam

Exceptions may be considered by the department's Instructional Leader.

Students who plan to attend a summer school program other than Manchester's must meet the same criteria as above and must seek approval prior to enrollment through the external credit option. See your counselor for details.

SUMMER TUTORING

Students may review a course to improve grades to meet sequential requirements through summer tutoring. Credit for a failed course may be earned through tutoring. In order to apply for this option, students must have earned a minimum final course grade of 40%, they must have attended class for a minimum of 60% of the course and they must have taken the final exam. Exceptions may be considered by the department's Instructional Leader. Applications are available in Room 124. Tutoring cannot begin until school has been dismissed for the summer. Tutors must be certified teachers approved by the Guidance Director. Students will be required to pass an examination prepared by the department at the end of the tutoring. Grades earned for such tutoring will not be included in class rank, but the new grade will be included on the transcript. To receive credit or to upgrade for a sequential course, students must meet the following minimum requirement: A minimum of 20 hours of tutoring must be successfully completed.

Attendance:

To provide all students with continuity of instruction, consistent attendance is expected. It is the responsibility of all parents/guardians to monitor the attendance of their students. Absences by class are aligned with the state expectation that students who are absent greater than 10% of the time are considered "chronically absent." Excessive absences or tardiness lead to loss of credit as follows:

- o Full year courses 15 absences
- o Semester courses 8 absences
- o Quarter courses 5 absence

Note: 3 excessive tardies (more than 5 minutes) = one absence.

Students and parents can monitor their absences through the MPS Pride App and should work with their administrator if they exceed the numbers above.

ACADEMIC ELIGIBILITY FOR INTERSCHOLASTIC SPORTS (followed by Article IX—CIAC By-laws)

To represent the school in athletics, students must carry at least four (4) units of work and have received a passing mark in at least four units of work at the end of the marking period preceding the contest. (Complete rules for sports eligibility can be obtained from the MHS Athletic Director or Guidance Director.) Fall sports eligibility requires that 4 credits be earned during the previous year. Credits earned in an approved Summer School program count toward this four credit requirement.

ADDITIONAL ELIGIBILITY REQUIREMENTS

“C RULE”

Manchester High School is a member of the Connecticut Interscholastic Athletic Conference (CIAC) and follows the eligibility requirements of the CIAC. Under the CIAC academic eligibility, a student must pass four subjects each marking period to be eligible for each sport season. The Manchester Board of Education has requested a higher standard and supports the “Academic Support Plan”. It is the expectation of the Manchester Board of Education to recognize the valuable learning experience to be gained by students who participate in interscholastic athletic programs. It is understood, however, that participation is a privilege and that academic success over sports must be stressed.

Goals:

- To assure the mutuality of high academic standards and the participation in sports.
- To establish the framework to set a higher academic standard for eligibility than the CIAC standard.

Objectives:

- Set the eligibility standard at a 2.2 average (C Rule).
- Qualifications for the program will be determined at the same time the CIAC eligibility requirements are being implemented.

Procedures:

- All athletes on freshman, junior varsity and varsity teams are subject to this regulation.
- At the time eligibility is determined all student-athletes whose grade point average falls below 2.2, provided they are otherwise CIAC eligible, will be referred to their head coach. The athlete and the academic advisor will develop an “academic support plan” to address the course or courses that need additional attention.
- The academic advisor and the head coach will collaborate to ensure the academic support plan is followed.
- As long as these students abide by the academic plan and guidelines, they will be allowed to continue their participation on the team. Failure to comply with the provisions of the program guidelines will result in a meeting with the athletic director, academic advisor, coach, parent and student athlete. The meeting will review the academic support plan and revisit the expectations of the plan.
- Failure to follow the student-athletes prescribed academic support plan may result in the following, (the decision made by the head coach and the athletic director)
 - practice suspension
 - game(s) suspension
 - suspension for remainder of the season

Academic support plans will be individualized for each student athlete; the intention of the additional academic requirements is to support our student athletes. Collaboration between the head coach, athletic administration, the student athlete and their families is essential for the implementation and the success of each individualized academic support plan.

NCAA Eligibility

To participate in college athletics, please see the eligibility website at: web3.ncaa.org/ecwr3

CREDIT REGULATIONS

Year Long Courses:

Most academic courses meet for a full year, and credit (1.0) is awarded in June, if the final grade for the entire year is a passing grade.

Semester and Quarter Courses:

Courses that meet for one semester are awarded .50 credit for a passing final grade. Courses that meet for just one marking period (quarter) are awarded .25 credit for a passing final grade.

Grading System:

Grades are given as letters, which show the quality of work.

A - Superior	P -Pass with credit
B - Above Average	I - Incomplete
C - Average	L - Loss of credit due to attendance
D - Below Average, but passing	N - Not enough grades to evaluate
F - Failure, no credit	

The above quarter or semester grades may include a plus or minus as follows: A+, A-, B+, B-, C+, C-, D+, D-

Marks are reported at the end of each quarter (November, January, April, and June), and semester averages are reported in January and June.

Honor Roll is determined by quarter grades. To be eligible for honor roll, a student must be carrying four or more full time courses. Students who have an incomplete (I) are not eligible.

HONOR ROLL GPA TABLE

A+	4.3	C	2.2
A	4.0	C-	1.9
A-	3.7	D+	1.6
B+	3.4	D	1.3
B	3.1	D-	1.0
B-	2.8	F	0
C+	2.5		

Eligibility for HIGH HONORS: 3.5 or higher grade point average.

Eligibility for REGULAR HONORS: 3.1 to 3.499 grade point average.

SCHOLARS AND HONOR GRADUATES

To qualify as a MHS Scholar, a senior must have a cumulative quality point average of 8.400 or higher. To qualify as a MHS Honor Graduate, a senior must have a cumulative quality point average of 7.2 to 8.399. To qualify as **Valedictorian** or **Salutatorian**, a senior must have been in attendance at MHS for at least four of the seven semesters starting in grade 9 and ending in January of the senior year.

The cumulative rank in class at the end of the junior year is a part of the transcript which is sent to colleges. Some colleges which utilize a rolling admissions plan or make decisions prior to receipt of the first semester senior rank in class will use this rank in class at the end of the junior year in evaluating the transcript and making admissions decisions. Other colleges defer decisions until receipt of first semester marks. All colleges, which students attend, will receive the final Manchester High School transcript. College acceptances are conditional upon satisfactory completion of the senior year at the same academic level on which the student's acceptance was based.

RANK IN CLASS is a determination of each student's relative position in the class as determined by the quality of school performance. Quality points are assigned to semester marks and are used to determine rank in class. All subjects taken within the MHS curriculum during the school year for which credit is received or failure recorded will be included in class rank unless the course description states the course is "unleveled."

The following courses taken at other institutions or other educational programs will carry credit if prior approval has been granted but will not be included in class rank: summer study at MHS or other high schools, special study programs, tutoring for make-up credit, independent study, on-line courses, foreign exchange programs and courses taken at colleges. Courses taken at the Greater Hartford Academy will not be included in class rank. In the case of transfer students, only courses taken at MHS will be included in class rank.

Not-for-Rank-in-Class Students may choose a "Not-for-Rank-in-Class" option for two of their courses, provided they are taking at least four core academic courses for rank from four distinct subject areas. The Not-for-Rank-in-Class option allows students to elect such courses and to receive a quarterly grade which is calculated into Honor Roll. Students will receive credit for the class but will receive a semester grade of "P" or "F," which will not impact rank.

Rank In Class - Grade Point Scale

The above grade point scale is used to determine rank in class. For a plus semester grade, .4 quality point is added and for a minus semester grade, .4 point is subtracted. A grade of "F" cannot be assigned a plus or minus. Rank in class is determined solely by courses taken at MHS or by prior approval from the building principal.

Letter Grade	A	B	C	D	F
AP	10.0	8.8	7.6	6.4	0
HONORS	9.6	8.4	7.2	6.0	0
COLLEGE PREP	8.4	7.2	6.0	4.8	0
POST SECONDARY PREP	7.2	6.0	4.8	3.6	0

DESCRIPTION AND SELECTION OF LEVELS

Manchester High School offers a wide variety of courses on four levels of ability: Post Secondary Prep., College Prep., Honors and the Advanced Placement level (A.P.). The differences in the levels are determined by the amount of material covered in the course, and the level of difficulty of the content.

Advanced Placement (AP) - Courses offered on the Advanced Placement level are the most challenging courses offered at MHS. Students electing these courses should have a record of high achievement on the Honors level in related courses and be highly motivated. Many colleges will award college credit for successful completion of AP courses, when a student scores a 3, 4, or 5 on the AP exam. **Students are expected to pay, register, and sit for the AP exam in May. Students who believe they are eligible for a fee waiver should see their school counselor.**

Honors - Courses offered at this level may be elected by students who have a record of high achievement and who are strongly motivated in the specific academic areas in which Honors courses are offered. Students in some Honors courses may take the equivalent College Board Advanced Placement examinations. All dual enrollment articulated courses with CCSU and UCONN are weighted at this level. **Students should register and pay for the course with the corresponding institution to receive college credit. Students who believe they are eligible for a fee waiver should see their school counselor.**

College Prep - Courses offered at this level are designed for students who have demonstrated above average achievement in the subject area and plan on attending college immediately upon graduation.

Post Secondary Prep - Courses offered at this level are designed for the student planning a post-secondary education. This may include some colleges, community colleges, technical colleges, vocational schools and proprietary schools.

Multi-Level - Courses offered at this level offer students the opportunity to choose the level of study and receive course credit at the honors or college prep. Teacher expectations for student performance at honors, college prep, or post secondary prep levels are presented and discussed with students prior to their selection. Performance expectations at each level are no different than other classes with similar level designations. Multi-Level classes tend to be highly individualized where teachers facilitate student learning with a variety of assignments.

Course Selection and Placement

Ninth grade placement is core courses are based on test information, grade 8 report cards, grade 8 team member recommendations, and parent input. Placements for students in grades 10-12 are based on academic performance, team or teacher recommendation, and parent input. Alternative methods of placement may be used for transfer students (including ELL students and those transferring from alternative programs).

COURSEWORK AND CHANGES

Minimum Course Requirements:

The equivalent of 5 full-time courses all year (plus PE, and/or Health) is required for seniors. Students in grades 9-11 must carry 6 credits all year (plus PE and/or Health).

Change of Course Level:

During the first two weeks of the school year - students, teachers, parents and counselors may work together to rectify scheduling errors only. After the first two weeks - a request to change to a lower level requires administrative approval. Students are expected to take advantage of extra help that is available. See your counselor to discuss options.

If a student moves to a less advanced level (ex: Honors to CP) at the end of the first quarter and has made up any and all owed work, ten points will be added to the first quarter's average when calculating the course's final grade. This consideration applies to changes made in the first quarter of the course only. Changes made after that point will not carry any grade adjustment. No level changes or course drops will occur after the midpoint of a course. All changes, regardless of when they are approved, will be processed at the end of the quarter barring any extenuating circumstances.

Changes to a higher level: Movement to a more advanced level may occur within the first semester of the school year. There will be no adjustment in grade.

Change of teacher within a course (lateral transfer) is not permitted.

Course Drops

When courses are dropped, please keep the following in mind:

- Seniors must be enrolled in 5 full time courses, in addition to physical education and health education.
- Students in grades 9-10 must carry 7 credits all year, 6 for grade 11 and 5 for grade 12. The student must report to the class until it is officially dropped.
- All books/equipment must be returned to the teacher before finalizing change.
- Courses are dropped at the end of a quarter
- Courses may not be dropped after the midpoint of the course.

GRADING

Grading System

Grades, which show the quality of work, are given as letters. Plus and minus grades shall be issued where appropriate. An evaluation of a student's academic performance each semester is best expressed as a numerical average ranging from 1 to 100; therefore, the quarter grade is recorded in the grade book as a numerical average between 0 and 100.

The semester course averages are computed as follows:

Quarter one: = 40% of the semester grade
Quarter two: = 40% of the semester grade
Semester exam: = 20% of the semester grade

The final grade for a year long course is computed as follows:

Semester one: = 50%
Semester two: = 50%

Incomplete grades must be completed no later than 10 school days from the end of the past quarter or a grade of F will be issued. In the case of a long absence or extenuating circumstances, students may request an extension in writing to their administrator no later than the Monday of the third week after the past quarter. If the request is granted, the administration will specify the length of the extension.

SCHOOL COUNSELING DEPARTMENT

Manchester High School has a comprehensive school counseling program. This is delivered through Wednesday mentor, small group intervention, and individual student meetings. The goal of the School Counseling Department is to assist all students to ensure success at MHS. This is done by supporting students in developing individualized goals and understanding how to execute them. This includes assisting students in monitoring current progress, as well as planning for life beyond high school. Counselors work in tandem with families to support MHS students. Parents may contact their student's school counselor for further information or help.

The Student Success Plan (SSP) details these goals and is developed on the Naviance platform. The SSP is available through the www.mhsredline.com student/parent portal.

The Student Support Center provides mediation resources, small groups, and transitional programming for new students.

School Social Workers are the link between home, school and community. The social worker promotes and supports students' academic and social success by providing specialized services that include: individual and group counseling, crisis prevention and intervention, social development assessments, advocacy for students, parents and the school, as well as home visits. She/he collaborates with community agencies and organizations and provides information and referrals to students and parents. They can provide support groups for students and parents, as well as parent education and training. The social worker works closely with the counselors, administrators, teachers, school psychologists, and other staff to help provide a strong support system for the student.

School Psychologists provide individual consultations and testing, if needed. This includes psychological testing for students (recommended by a PPT) and are available to interpret test results to parents and staff.

NAMES AND PURPOSES OF TESTS

Advanced Placement Examinations (AP)

AP tests are three-hour examinations taken in May based on the subject matter covered in the respective course. Students' AP scores have the potential to award college credit. Students enrolled in advanced placement courses must pay for and take the respective AP exam.

College Board Testing Accommodations for Students with Disabilities

Please note that students with a documented disability may be eligible for accommodations on College Board tests (AP, PSAT & SAT). The College Board's Services for Students with Disabilities (SSD) Student Eligibility Form must be submitted for each student requesting accommodations. To be eligible, the student must have a disability that necessitates testing accommodations, have documentation on file at the school that supports the need for requested accommodations and meets the College Board's Guidelines for Documentation; and receive and utilize the requested accommodations, due to the disability, on school-based tests. A student who does not meet all the eligibility requirements may appeal the requirement. Forms must be submitted well ahead of the first test date, generally five weeks before, and seven weeks before for appeal cases.

Students who were previously approved by the College Board for accommodations while a MHS student need not apply again unless their need for accommodations has changed. When registering for SAT's, approved students must include their S.S.D. code number with the registration form. Students not previously approved for accommodations and those new to MHS who had been approved at

another school must apply for eligibility. See your counselor, or call the guidance office at 647-3533, for a copy of the form and for further details.

Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test: PSAT/NMSQT

This is a shorter version of the Scholastic Assessment Test (SAT) and is given in October to all MHS sophomores and juniors. Junior test results are used in the selection of Merit Scholars, Finalists and Commended students in the NMSQT program. Sophomore and junior results are used for individual academic and post high school planning.

Armed Services Vocational Aptitude Battery (ASVAB)

This test is available to all students who are interested in assessing their aptitudes. The ASVAB can assist students in making decisions about career paths based on actual abilities. There is no military obligation. The test will be given at MHS on a date to be announced.

Scholastic Assessment Testing Program: SAT

The SAT is a three-hour test that consists of evidenced based reading and writing sections and mathematics sections. Additionally, an optional essay (50 minutes) is available. All juniors take the SAT without essay in the spring as mandated by the State of Connecticut. The scores may be used for college admission purposes if authorized by the student, but may also be suppressed by the student. We recommend that students take the SATs at least twice because colleges generally use the highest scores. The SAT is administered nationally seven times per year. Please see your counselor for further details. If a senior is applying as an early decision candidate, all testing should be completed prior to November 1st.

Students must register directly with the College Board (www.collegeboard.com) to take the SAT's. Fee waivers are available to eligible students from School Counselors.

Greater Hartford Academy of the Arts (GHAA)

The Greater Hartford Academy of the Arts is an audition based program which provides college preparatory arts training to high school students interested in pursuing postsecondary studies in music, dance, theater, creative writing, visual arts, film and television, and theater design and production. Students attend the Academy from 1:00 to 4:15 p.m. Monday through Thursday. Students interested in applying to the Academy may request an application from the Academy Secretary, at (860) 757-6317.

Goodwin University Early College Advanced Manufacturing Pathway (ECAMP)

Goodwin University's Early College Advanced Manufacturing Pathway (ECAMP) is a full year, half-day, magnet school program serving 12th-grade students. Students receive free tuition, instruction materials, and transportation to and from the Goodwin University Campus in East Hartford. The program provides seven college-level manufacturing courses, 21 Goodwin University credits, an Advanced Manufacturing/CNC Machining Certificate, and a Department of Labor Certificate. These credentials will allow them to secure a high-paying, rewarding career in advanced manufacturing upon graduation. In addition, students will receive a paid, work-based, pre-apprenticeship during the second semester at a participating Goodwin industry partner. Goodwin provides the transportation to and from the pre-apprenticeship as well. The Goodwin University pre-apprenticeship (minimum 200 hours) can be credited toward the student's first CT Department of Labor Apprenticeship.

ALTERNATIVE EDUCATION

Bentley Alternative Program

E-Credit

Manchester Regional Academy

New Horizons at Manchester Regional Academy

Credit Diploma Program—Adult Education

The credit diploma program is a division of the Adult Education Program. Through this program, students can enroll to take classes in the evenings and earn enough credits to obtain an adult education diploma. The student/teacher ratio is beneficial to students who have difficulty in the mainstream setting. Students withdraw from MHS and then enroll in this high school diploma program. Interested students should see their school counselors for details.

SPECIAL OPTIONS***

Homebound Instruction

Homebound instruction is intended for long-term medical absences. State guidelines indicate that homebound instruction cannot be considered for absences of less than three weeks. However, when it is known that the student will be required to be absent more than three weeks due to illness, hospitalization, surgery, or an accident, then homebound instruction may begin within a period of approximately two weeks after the attending physician recommends the tutoring. Parents/guardians should make homebound requests through their child's guidance counselor.

Married Students

Married students shall have the same educational opportunities as unmarried students.

Pregnant Students

Support services may be available to pregnant students. Any variation from a student's continuance in regular classes shall be based upon her specific needs.

COURSE LISTING AT A GLANCE

(Course Numbers and Levels are listed within each department)

Academy Seminars

Freshman Seminar
GSA Seminar
Intro to ESPA
Intro to Health Careers
Intro to STEM
PAC Seminar

Art

Advanced Ceramics
Advanced Drawing
Advanced Jewelry/Metals
Advanced Painting
AP Studio Art
Ceramics
Comic Design
Digital Art & Design
Drawing
Explorations in Art & Design
Explorations in Jewelry Making
Metalsmithing / Jewelry
Painting
Portfolio Preparation
Sculpture
Wheel Throwing Pottery

Business and Finance Technology

CCSU Entrepreneurship
Computer Programming 1
CT State College Accounting
CT State College Financial Literacy
Credit Union Internship
International Business
Introduction to Business
Marketing 1
Microsoft Office Applications
Personal Finance
School Store Internship
Sports and Entertainment and Management
Web Page Design

English

Abnormal Psychology in American Literature
AP English—Language & Composition—Grade 12
AP English—Literature & Composition —Grade 11
American Literature
CCSU Public Speaking
CCSU Senior English
Contemporary Journalism
Creative Writing
Humanities
Language Arts
Senior English
Sophomore English
STEMD Senior English
UConn American Studies
UConn Senior English

Extended Learning

Career Exploration Internship
Community Service
Independent Study
Work Based Learning

Family & Consumer Sciences

Advanced Culinary Arts
Bake Shop I, II
Fashion and Design I, II, III
Interior Design and Housing
International Foods
Introduction to Culinary Arts
CCSU Early Childhood Education
Nutrition for Fitness
Silk City Intern
UConn Human Development & Family Studies
World of Children

Health

Freshman Health
Junior Health
Senior Health
Universal Health
Unified Health

Mathematics

AP Calculus AB
AP Calculus BC
AP Precalculus
AP Statistics
Algebra 1
Algebra 2
Calculus
Consumer Math
Elementary Concepts of Statistics
Finite Math A
Finite Math B
Geometry
Introduction to Data Science
Precalculus
Problem Solving Strategies in Mathematics
SAT Preparation
Statistics and Probability
UConn Discrete Mathematics

Performing Arts

Advanced Guitar Ensemble
Advanced Percussion Ensemble
AP Music Theory
CCSU Acting
CCSU Hair and Makeup for the Stage
Chorus
Concert Band
Costuming
Dance Ensemble
Guitar I, II
Jazz Ensemble
Music Production & Business
Orchestra
Percussion Ensemble
Piano 1, 2
Songwriting
Theatrical Design

Physical Education

Advanced Sports Training
Advanced Team Sports
Beginner Swim Class
Intro to PE
Lifeguard Training
Sports Team Management
Team Sports
Unified PE
World Sports

Science

Animal Behavior
AP Biology
AP Chemistry
AP Environmental Science
AP Physics 1
Astronomy
Biology
Botany
Chemistry
CNA Training
Earth & Space Science
EMT Training 1 & 2
Forensic Science EA & HC
Human Anatomy & Physiology
Marine Science
Physics
Science Research 1, 2
Sports Medicine
UCONN Medical Terminology
UCONN Introduction to Allied Health Professionals

Social Studies

AP Microeconomics
AP Psychology
AP US History
AP World History
AP US Government and Politics
Black & Latino Studies A & B
CCSU Law & Order
Civics
Criminology
Education in a Multicultural Society
Ethics
History of Sports
Human Rights
Humanities
Introduction to Truth
Law in American Society
Modern American Music and Film
Psychology
Seminar in Truth
Sociology
UCONN American Studies
UCONN Conflict & Peace Studies
UCONN Human Rights
UCONN Latin American Studies
World History 1, 2

Technology Education

AP Computer Science A
Architecture 1, 2
Automotive Technology 1, 2
Aviation & Aerospace
Communication Workshop
Computer Programming I
CT State Computer-aided Design and Drafting 1 & 2
Construction Technology 1, 2
CT State Conventional Manufacturing Process Lab
CT State Engineering Drawing Interpretations
Electronics Technology 1, 2
Engineering Design
Game Design
Graphic Design and Publishing
Manufacturing Pre-apprentice
Mobile App Design
Photography
Using Tools and Materials 1, 2
Video Production
Woodworking 1,2
Yearbook

World Language

AP Spanish
Chinese 1, 2, 3, 4, 5/UNConn
French 1, 2, 3, 4
Italian 1, 2, 3, 4
Spanish 1, 2, 3, 4, 5

COLLEGE CREDITS AND CERTIFICATIONS

AP Courses	Articulated Dual Enrollment Courses	UConn Early College Experience (ECE)	Certifications
• Biology • Calculus AB • Calculus BC • Chemistry • Computer Science A • English Language • English Literature • Environmental Science • Microeconomics • Music Theory • Physics 1 • Psychology • Precalculus • Spanish Language & Culture • Statistics • U.S. Gov. & Politics • U.S. History • World History	• State University of New York Science Research • CT State CAD Solidworks • CT State Web Design & Development • CT State Microsoft Office Applications • CT State College Financial Literacy • CT State College Accounting • CT State Blueprint Reading • Central Connecticut State University (CCSU) Teaching in a Multicultural Society • CCSU Marketing • CCSU Public Speaking • CCSU Senior English • CCSU Early Childhood Ed. • CCSU Hair & Makeup • CCSU Law & Order	• Chinese • Conflict & Peace Studies • Elementary Discrete Mathematics • Emergency Medical Training (EMT) • Medical Terminology • Human Rights • American Maritime Culture • Medical Terminology • Senior English • American Studies	• OSHA 10 • Servsafe • College Accounting • Volunteer Income Tax Provider • Police Explorers • Certified Nursing Assistant • Emergency Medical Technician • Tooling U • Manufacturing Pre-apprenticeship Program

Denotes possible College Credit throughout catalog = 🏠

Community College Partnership Program (Formerly MCC High School Partnership) Students in grades 10-12 are eligible to earn both credit at Manchester High School and through the Connecticut Community College System. Students must apply to take up to two courses at the Manchester Community College branch. To be eligible, students must have a 3.0 GPA and have approval from their school counselor. Interested students can visit the [CT State Website](#).

Benefits of Dual Enrollment Coursework

Manchester High School students have the opportunity to take several courses for high school credit which also award college credit (see your counselor for specifics). Students have saved \$971,109 just through dual enrollment opportunities with UCONN.

OVERVIEW OF ACADEMIES

Manchester High School offers extensive academic and elective courses, college credit courses, support services, extra-curricular activities and athletic activities of a large, diverse public high school. MHS has developed academies as a systematic approach to growing the overall student and ensuring that all MHS students who graduate from our school meet the expectation of the Vision of The Graduate. We use an academy-based structure in grades 10-12 in order to personalize and tailor experiences and supports for all students. The combination of broad course offerings and theme-based academy experiences is designed to offer students the best of both worlds. Students are encouraged to take AP or UConn ECE courses and are not limited based on their academy enrollment.

All students in grades 10 - 12 are enrolled in one of the five MHS academies.

- EPSA: Education and Public Service Academy, Office Suite 119
- GSA: Global Studies Academy, Office Suite 119
- MCA: Medical Careers Academy, Office Suite 211
- PAC: Performing Arts and Communications, Office Suite 108
- STEM: Science, Technology, Engineering and Mathematics Academy, Office Suite 211

These small learning communities are designed to students' academic, social-emotional, and college and career planning needs in a more personalized learning environment. Through this model students meet requirements for graduation by creating a personalized program of study that allows space for students to explore a variety of career and course opportunities, develop a deep understanding of themselves as learners and their areas of interest, and create a post-secondary plan that is aligned to a student's strengths and goals.

Why academies:

- For students to collaborate with a small support team including their School Counselor, Assistant Principal, Wednesday Mentor, and even Behavior Tech or Student Advocate. This support hub is typically located in one office suite in the building and becomes a student's "go-to" space at MHS.
- Academy-specific navigation of the broad MHS program of studies in order to expose students to courses, electives and special opportunities that are aligned to the broad academy theme and student interests and goals .

. Each academy community offers:

- **Administrative and Student Support Teams for Grades 10-12**
Each academy consists of a support team for students and families that includes school counselors, School Behavior Technician and an administrator. This team works together in an office suite so that students and families have a central source of contact and each team of professionals work in close proximity to best support students.
- **Academy-Based Special Opportunities**
Academies are organized by the themes listed below in order to best provide special opportunities that are aligned with student interests. These include but are not limited to the following: assemblies, guest speakers, seminars, experiential learning, field trips, job shadows, community service projects and certification options.
- **Advisory Boards**
Each academy maintains a student advisory board and a professional advisory board which ensures that students have relevant, meaningful world experiences.
- **Wednesday Mentor**
All students are assigned a Wednesday Mentor section based on their grade and academy. Students participate in activities and lessons which further support their individualized college and career readiness goals.
- **Grade 10 Academy Seminars**

Each academy offers students an Academy Seminar course that is designed to expose students to a variety of themes related to that academy and provide space for students to co-create their learning around a particular area of interest.

- **Priority Preference to Academy-Based Electives, Interdisciplinary Courses and Early College Credit Opportunities**

Some elective courses are academy-based and students enrolled in that academy are given priority during enrollment.

Examples of these courses include Investigating Health Careers, Acting, Songwriting, Hair and Make-Up, Criminology, World of Children, Truth Seminar, and Silk City Cafe Internship.

- **Proposed Course Pathways** (inclusive of extracurricular opportunities, industry-recognized credentials, and work-based learning and experiential learning opportunities)

Pathways based on career interests fields that are designed as a tool to assist in the course selection process and ensure that courses and skill sequences are pursued in a thoughtful, industry-recognized manner. By using these pathways as guides, graduates from MHS have a robust set of experiences and credentials that are aligned with post-secondary opportunities.

- **Postsecondary and Career Exploration and Opportunities**

Students will be exposed to a variety of a variety of postsecondary pathways and opportunities through the academy and advisory space. Students will have an opportunity to attend college visits, listen to guest speakers, and hear from industry experts.

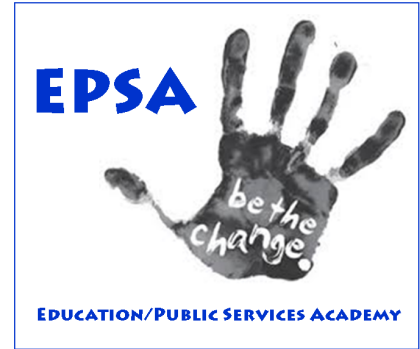
- **Extended Learning and Individualized Learning Experiences**

Community partnerships and creative scheduling allow students to craft individualized and meaningful learning experiences beyond the classroom.

EPSA

Education and Public Service Academy

Overview: The Education and Public Service Academy is designed for students who share an interest and desire to explore career paths related to human services with a focus on Education, Social Work, Psychology, and Criminal Justice. EPSA aims to cultivate the great educators, investigators, and human service professionals of tomorrow through engaging coursework and working collaboratively with community partners to provide students with meaningful extended learning experiences. The Education and Public Service Academy is committed to developing the skills necessary to pursue careers that better support our community and our world.



Academy Highlights

- Nearly 10 percent of academy students have joined Police Exploration and Learning Experiences (PELE)

Clubs and Activities:

- Best Buddies
- Black Student Union
- Educators Rising
- EPSA Advisory Board
- Gay Straight Alliance
- Link Crew
- Peer Ambassadors
- Peer Mediators
- Police Exploration and Learning Experiences (PELE)
- Student Equity Team

Extended Learning and Certifications:

- MELC
- Police Explorers
- ParaPro
- Certified Nursing Assistant
- Emergency Medical Responder (EMR)

AP Courses and Opportunities for College Credit:

- AP Government and Politics
- AP Psychology
- AP Statistics
- AP US History
- UCONN Human Development
- UCONN Writing Center
- UCONN Conflict & Peace
- UCONN American Studies
- CCSU Education in a Multicultural Society
- CCSU Early Childhood Education
- Howard Environmental Justice

Recent graduates:

- Central Connecticut State University
- New York University
- University of California, Berkeley
- University of North Carolina
- Ohio State University
- Texas A & M

EPSA Pathway: Education / Counseling / Psychology Proposed Plan of Study
 Capacities: Creative and Innovative Thinking, Collaboration, and Cultural and Global Competence

10 th Grade	11 th Grade	12 th Grade
• Introduction to Education and Public Services Academy • Humanities • Creative Writing • Science Research 1 • World Language • Criminology • Intro to Truth • World of Children • Unified PE	• UCONN American Studies • American Literature • Creative Writing • AP Psychology • Abnormal Psychology • Psychology • Intro to Truth • Criminology • Black and Latino Studies Part A • Black and Latino Studies Part B • Sociology • UCONN Latin American Studies • Science Research 2 • World Language • CCSU Education in Multicultural Society • CCSU Introduction to Early Childhood Ed. • Unified PE *Any sequence related courses in Grades 10 not yet taken	• Creative Writing • Intro to Truth • Psychology • AP Psychology • Anatomy and physiology • AP biology • Statistics • AP Statistics • UCONN Discrete Math • World Language • CCSU Introduction to Early Childhood Education • UCONN Human Development and Family Studies • Experiential Learning Internship Class: Teacher Assistant, ParaPro and/or OSHA 10 Certificate *Any sequence related courses in Grades 10-11 not yet taken

Career Connections: Child care director, child life specialist, coach, daycare provider, teacher (preschool, elementary, middle school, high school, adult education), social work, paraprofessional, psychologist, therapist, etc.

Work-Based / Internship Opportunities: Teacher's assistant/Intern (high school or with younger students at a Manchester School), Manchester Early Learning Center, Day Care Center. Youth Service Bureau and other local employers. Other opportunities may be designed based on individual student interest and goals.

Industry Recognized Credentials: ParaPro Certificate, OSHA 10 (general industry or health career focused)

Extra and Co-curricular Recommendations: Educators Rising, EPSA Student Advisory Board, Student Equity Team, FACTS Club, Gay Straight Alliance, Black Student Union

Additional Occupational Information Within this Pathway (please scan the QR code)

EDUCATION AND TRAINING



EPSA Pathway: Criminal Justice / Public Service / Law

Capacities: Critical Thinking, Problem Solving, Communication, Cultural & Global Competence

10 th Grade	11 th Grade	12 th Grade
• Criminology • Psychology • Intro to Truth • Biology • Science Research 1 • World language • Robotics • Computer Programming • Microsoft Office Applications • Introduction to Education and Public Services Academy	• UCONN American Studies • American Literature • Psychology • AP Psychology • Sociology • Abnormal Psychology • AP US History • Black and Latino Studies Part A • Black and Latino Studies Part B • UCONN Latin American Studies • UCONN EMT 1 (Allied Health) • UCONN Med Term • Chemistry • Science Research 2 • Botany • World language • Robotics *Any sequence related courses in Grades 10 not yet taken	• AP Language and Composition • Creative Writing • CCSU Law and Order • Law in American Society • AP Government • UCONN Peace and Conflict • Forensic Science EA & HC • Anatomy and physiology • AP Biology • AP Environmental Science • Physics • UCONN EMT Training • World Language • Broadcast Journalism • UCONN Human Development • Nutrition for fitness • Experiential Learning/Internship Class: OSHA 10 certificate *Any sequence related courses in Grades 10-11 not yet taken

Career Connections: Attorney, bailiff, court reporter, detective, FBI, federal marshall, forensics, investigator, judge, lawyer, legal assistant, paralegal, park ranger, police officer

Work-Based / Internship Opportunities: PELE after school program, Police Explorer (Manchester Police Department program), Work-Based Learning Internship in related field such as local politician's office, Town of Manchester, law office and other local employers. Other opportunities may be designed based on individual student interest and goals.

Industry Recognized Credentials: OSHA 10 (public safety or law enforcement/security focused) in experiential learning class, First Aid, CPR

Extra and Co-curricular Recommendations: EPSA Student Advisory Board, Mock Trial, FACTS, Student Equity Team, Interact Club, Black Student Union

Additional Occupational Information Within this Pathway (please scan the QR code)



GSA

Global Studies Academy



Overview: The Global Studies Academy (GSA) is a place for students to explore their abilities, skills and possible career interests. Active participation in coursework and experiential learning ignites students' exploration of academic ideas and career interests from a local and global perspective. Students are provided opportunities to broaden their global understandings and develop an appreciation of the heritage and values of people from various cultures which will further facilitate their global competence and positive global citizenship. Students who have an interest in foods, business, philosophy, world languages and cultures will have the opportunity to participate in specific courses and extracurricular opportunities.

Academy Highlights:

- GSA student led Harvest Pack event at MHS. 150 students participated in this school-wide activity in the two years of hosting this event.
- All ten students who took the ServSafe Food Handler certification course in March of 2019 with Chef Ben of Bistro on Main and MACC passed the certification exam with a 75% or higher. Six of the ten students scored a 90% or above.
- GSA students have participated in a dozen different activities, some created by our students and staff such as internships, the Culinary Exploration Opportunity Fair, ServSafe certification course, Yard Goats Food Industry field trip, NYC 911 Museum & Observation Deck, and our annual Harvest Pack event where we package and send food to a country with the most significant nutritional needs as determined by Harvest Pack. Students have also participated in the Reality Fair, the Manchester Chamber of Commerce Chef's Challenge, the Customer Service adult education course, and the VITA certification course to be a IRS Tax Preparation Volunteer and have worked the voting polls.

Clubs and Activities

- GSA Advisory
- FBLA
- Fashion Club
- Global Studies Advisory
- Journalism Club
- Student Equity Advisory Team
- Young Men's Leadership

Extended Learning and Certifications

- Silk City
- Credit Union
- School Store
- Internships at local businesses and restaurants
- OSHA 10
- Volunteer Income Tax Provider
- Servsafe
- MOS Specialist certification
-

AP Courses and Opportunities for College Credit

- US History
- CT State Accounting
- CT State Microsoft Office
- CT State College Financial Literacy
- CT State Web Design
- Microeconomics
- World History
- US Government and Politics
- UCONN Conflict & Peace
- UCONN Human Rights
- UCONN Introduction to Latin America & the Caribbean

Recent Graduates

- Bentley University
- Culinary Institute of America
- Johnson and Wales University
- Wheaton College

GSA Pathway: Business: Accounting, Entrepreneurship, Finance, Marketing

Capacities: Critical Thinking, Creative and Innovative Thinking, Problem solving, Collaboration, Cultural and Global competence

10 th Grade	11 th Grade	12 th Grade
- World language - Personal Finance - Drawing - Introduction to Business - International Business - Marketing - CCSU Entrepreneurship - School Store Internship (May be repeated for credit) - Sports/Entertainment Management - CT State Microsoft Office Applications - GSA Seminar	- AP Literature and Composition - African American and Latino Studies Part A - African American and Latino Studies Part B - Economics - Math - World language - Photography - Video production - Graphic Design and publishing - CT State College Financial Literacy - CCSU Entrepreneurship - International Business - CT State Web Page Design **Any sequence related courses in Grades 10 not yet taken	- AP Language and Composition - AP Microeconomics - Physics - Forensic science - AP Statistics - UConn Discrete math - CT State College Accounting - School Store Internship (may be repeated for credit) - Experiential Learning/Internship Class: OSHA 10 (health) certificate - Northeast Family Federal Credit Union Internship (must apply at the end of junior year) **Any sequence related courses in Grades 10-11 not yet taken

Career Connections: Accountant, advertising, auditor, bookkeeper, entrepreneur, financial advisor/planner, human resources manager, insurance underwriter/agent/actuary, investor, marketing analyst, office manager, public relations manager, sales representative

Work-Based Learning/Internship Opportunities: Northeast Family Federal Credit Union Internship (seniors only) School Store Internship, Volunteer Income Tax Assistance, Work-Based Learning Internship in field of interest (local accountant, business, bank, real estate or insurance agency etc.)

Industry Recognized Credentials: Microsoft Office Applications Specialist, IRS Volunteer Income Tax Assistance program, OSHA 10 (general industry) certificate in work-based learning/internship class

Extra and Co-curricular Recommendations: Future Business Leaders of America (FBLA), IRS Volunteer Income Tax Assistance program, GSA Student Advisory

Board

BUSINESS, MANAGEMENT AND ADMINISTRATION



Marketing



FINANCE



GSA Pathway: Culinary, Hospitality and Tourism

Capacities: Self-Direction and Process Monitoring, Communication, Cultural and Global competence

10 th Grade	11 th Grade	12 th Grade
• Creative Writing • Humanities • World language • GSA Seminar • Introduction to Culinary Arts • Nutrition for Fitness • Bake Shop 1 • Interior Design • Drawing • Introduction to Business • Marketing • CCSU Entrepreneurship • Personal finance	• AP Literature and Composition • Sociology • AP Psychology • Psychology • African American and Latino Studies Part A • African American and Latino Studies Part B • World language • Advanced Culinary Arts • Bake Shop 2 • International Foods • Photography • Video production • Graphic Design and publishing • International Business **Any sequence related courses in Grades 10 not yet taken	• AP Language and Composition • AP Microeconomics • Economics • UCONN Latin American Studies • AP Environmental science • Botany • Forensics • UCONN Discrete Math • Elementary Concepts of Statistics • World language • UCONN Human Development • Silk City Intern • School Store Internship • Broadcast Journalism • Contemporary Journalism • Experiential Learning/Internship Class: OSHA 10 (culinary or general industry focus) certificate ** Any sequence related courses in Grades 10-11 not yet taken

Career Connections: Banquet manager, catering, cook, dietitian, food and beverage director/manager, kitchen manager, line cook, nutritionist, dietician, pastry chef, restaurant owner, restaurant server

Work-Based Learning/Internship Opportunities: Silk City Cafe Internship, Work-Based Learning Internship in field of interest (local restaurant, banquet facility)

Industry Recognized Credentials: ServSafe Food Handler Certificate, OSHA 10 (culinary) certificate in work-based learning class

Extra and Co-curricular Recommendations: GSA Student Advisory Board, Journalism Club, Fashion Club, Black Student Union, Cooking Club, Interior Design Club

Hospitality and Tourism



Human Services



MCA

Medical Careers Academy



Overview: The healthcare field contains a tremendous variety of career opportunities, and the majority of them show great growth in demand every year. The Medical Careers Academy is designed to help students interested in any medically related field, or just health care in general, to explore these varied career opportunities. Students in the Academy have shown interests ranging from medicine and nursing, to areas as diverse as veterinary, physical therapy, athletic training, forensics, psychology, cancer treatment, and many more. It is our goal to facilitate the students' development into future healthcare professionals, through hands-on training and one-on-one guidance provided by faculty and staff. Furthermore, the Academy strives to develop the community connections necessary to provide students with meaningful real world experiences, and to be sure our program stays in touch with the needs of our students and the healthcare community.

The Medical Careers Academy is dedicated to developing the academic and non-academic skills necessary to care for others and enter the medical field at any level.

Academy Highlights:

- Several academy students complete certification coursework for EMT or CNA before graduating.
- MCA students earned scholarship money for seniors by hosting Red Cross Blood drives and meeting donation goals.
- Opportunities to earn certifications including CNA, EMS and EMT.
- HOSA students received 6 first or second place awards at the spring competition.
- Partnerships with the Ambulance Services of Manchester, Manchester Fire and Emergency Medicine

Clubs and Activities

- FACTS Club
- MCA Advisory
- HOSA
- PAWS
- Science Scholars
- Science Honors Society
-

Extended Learning and Certifications

- Certified Nursing Assistant
- Emergency Medical Responder
- Emergency Medical Technician
- OSHA 10 Medical Focus
- CNA Internship
- EMT Internship
- CPR Certification
- Internships at local medical facilities
-

AP Courses and Opportunities for College Credit

- AP Biology
- AP Chemistry
- AP Physics
- AP Psychology
- AP Calculus AB & BC
- AP Statistics
- UCONN Human Development
- UCONN Medical Terminology
- UCONN Allied Health
- UCONN EMT
- SUNY Science Research 1 & 2

Recent Graduates

- Arizona State University
- Central Connecticut State University
- Johns Hopkins University
- New York University
- Quinnipiac University
- University of Connecticut
- University of Pennsylvania
-

MCA Pathway: EMT/Paramedic/Emergency Medical Response
 Capacities: Critical Thinking, Problem Solving, Communication, Cultural and Global Competence

10 th Grade	11 th Grade	12 th Grade
• AP World History • AP Environmental Science • Investigations in Health Careers • Biology • Science Research 1 H • Math • Sports medicine • Lifeguard training • Beginners swimming • Health	• EMT 1: UConn Allied Health • Chemistry • Human Anatomy & Physiology • Science Research 2 • Math • AP Psychology • African American and Latino Studies Part A & Part B • Human Rights or UCONN Human Rights • American Studies or AP US History • Health • Any sequence related courses in Grades 10 not yet taken	• AP Psychology • UCONN Latin American Studies • EMT 2 UConn • Physics • AP Physics 1 • AP Chemistry • AP Biology • UCONN Medical terminology • Certified Nurse's Assistant • Math • World Language • UConn Human Development and Family Studies • Health • Experiential Learning/Internship Class: OSHA 10 (health) certificate *Any sequence related courses in Grades 10-11 not yet taken

Career Connections: EMT, paramedic, any other health field (nurse, CNA, doctor), phlebotomist, emergency room doctor, physician assistant, radiologist

Work-Based Learning/Internship Opportunities: Teacher Assistant in an Everyday Classroom, CNA (clinical hours) EMR (clinical hours), Summer Hartford Healthcare Volunteer Program, EMT (clinical hours), Work-Based Learning Internship in related field (doctor/dental/vet) Other opportunities may be designed based on individual student interest and goals.

Industry Recognized Credentials: CNA, EMR, EMT, OSHA 10 (healthcare focused) in experiential learning class

Extra and Co-curricular Recommendations: HOSA (Future Health Professionals Club), MCA Student Advisory Board, Science Scholars, Science Honors Society



MCA Pathway: Health Science, Nursing, Doctor, Dentistry
 Capacities: Critical Thinking, Problem Solving, Collaboration, Communication

10 th Grade	11 th Grade	12 th Grade
• Biology • Science Research 1 • Investigations in Health Careers • Nutrition for Fitness • World of children • International foods	• AP Literature and Composition • American Literature • Psychology • AP Psychology • UCONN Latin American Studies • African American and Latino Studies Part A • African American and Latino Studies Part B • Abnormal psychology • Sociology • Medical Terminology • Chemistry • Science Research 2 • Human Anatomy and Physiology • AP Calculus AB • Precalculus • AP Precalculus • World language • Sports Medicine *Any sequence related courses in Grades 10 not yet taken	• AP Lang and Composition • UCONN Conflict & Peace • AP Environmental • Certified Nurse's Assistant • UCONN EMT Training • UCONN Medical Terminology • Physics • AP Physics 1 • AP Chemistry • AP Environmental • AP Biology • AP Calculus AB • AP Calculus BC • World language • UConn Human Development and Family Studies • Experiential Learning/Internship Class: OSHA 10 (health) certificate *Any sequence related courses in Grades 10-11 not yet taken

Career Connections: CNA (certified nursing assistant), LPN (licensed practical nurse), nurse, nurse practitioner, home healthcare aide, occupational therapist, radiologist, physical therapist, doctor, nurse, medical assistant, chiropractor, dentistry

Work-Based Learning/Internship Opportunities: Teacher Assistant in an Everyday Classroom, CNA (clinical hours) EMR (clinical hours), Summer Hartford Healthcare Volunteer Program, EMT (clinical hours), Work-Based Learning Internship in related field (doctor, dental, vet, nursing home). Other opportunities may be designed based on individual student interest and goals.

Industry Recognized Credentials: EMR, CNA, CPR, OSHA 10 (healthcare focused) in experiential learning class

Extra and Co-curricular Recommendations: HOSA (Future Health Professionals Club), MCA Student Advisory Board, FACTS Club, Science Scholars, Science Honors Society



MCA Pathway: Animal Science

Capacities: Self-Direction and Process Monitoring, Problem solving, Communication

10 th Grade	11 th Grade	12 th Grade
• Biology • Science Research 1 • Investigations in Health Careers • Marine science • Animal behavior • World language • Robotics • Communication workshop • Web design • Marketing • CCSU Entrepreneurship	• AP Literature and Composition • Psychology • AP psychology • Sociology • AP Biology • UCONN Med Terminology • Chemistry • AP Chemistry • Science Research 2 • Veterinary science • World language • Photography *Any sequence related courses in Grades 10 not yet taken	• AP Language and Composition • Psychology • AP Psychology • AP Environmental Science • Physics • AP Physics • AP Chemistry • UCONN Medical Terminology • Statistics • AP Statistics • World language • Experiential Learning/Internship Class: OSHA 10 (health) certificate *Any sequence related courses in Grades 10-11 not yet taken

Work-Based Learning/Internship Opportunities: Teacher Assistant in an Everyday Classroom, CNA (clinical hours) EMR (clinical hours), Summer Hartford Healthcare Volunteer Program, EMT (clinical hours), Internship in related field such as local veterinarian, Lutz Museum, pet shop and other local employers. Other opportunities may be designed based on individual student interest and goals.

Industry Recognized Credentials: CNA, EMR, EMT, CPR, OSHA 10 (healthcare focused) certificate in experiential learning class

Extra and Co-curricular Recommendations: HOSA (Future Health Professionals Club), MCA Student Advisory Board, PAWS, Science Scholars, Science Honors Society

Additional Occupational Information Within this Pathway (please scan QR code):

HEALTH SCIENCE



PAC

Performing Arts & Communications Academy



Overview: PAC offers students the opportunity to explore a variety of interests in the performing arts and communications realms. Students in the academy have the opportunity to work with professionals in their field: actors, singers, dancers, musicians, costume designers, cosmetologists, journalists, photographers, videographers, editors. Our goal in PAC is to foster a community in which students can take creative risks with performances and products, effectively communicate in a variety of contexts, express ideas in symbolic, metaphorical, and creative ways, turn ideas into reality with concrete action steps and use of available resources, and provide opportunities to grow and learn about the performing arts and communication while they develop career-ready capacities and abilities. Students in PAC have the opportunity to intern or job shadow with local performing artists and journalists/broadcasters.

Academy Highlights

- Internships with Little Theater of Manchester and CAST
- College field trips
- NYC Broadway Trip
- School sponsored clubs including Broadcast's Red Productions, Sock and Buskins Drama Club, Handbell, Chorus, Marching Band
- Award winning Music programs
- Student Television News Contest Winners
- Student run news publication, The Nest

Clubs and Activities

- PAC Advisory
- Tri-M
- The Pulse
- Chamber Orchestra
- Roundtable Singers
- Jazz Choir
- Handbell Choir
- Marching Band
- Color guard
- Drama Club

Extended Learning and Certifications

- OSHA 10
- Internships at local theater, art studio, or salon(s)

AP Courses and Opportunities for College Credit

- AP Music Theory
- AP Art History
- AP Psychology
- AP Statistics
- CT State College Accounting
- CT State Web Design

Recent Graduates

- Art Institute of Atlanta
- California Institute of the Arts
- Lyme academy of Fine Arts
- Massachusetts College of Art & Design
- Morgan State University
- New York University
- Quinnipiac University
- Syracuse University
- University of Chicago
- University of Hartford

PAC Pathway: Communications/Broadcast Journalism

Capacities: Critical Thinking, Self-Direction and Process Monitoring, Collaboration, Communication, Cultural and Global competence

10 th Grade	11 th Grade	12 th Grade
- Sophomore English - World language - PAC Seminar - All art classes - Communication Workshop - Video Production - Broadcast Journalism (may be repeated for credit) - Journalism - Graphic Design - Photography - Yearbook - Comic design	- AP Literature - World language - US History (AP, ECE) - UConn Human Rights - Economics - Psychology - Criminology - African American and Puerto Rican & Latino Studies A - African American and Puerto Rican & Latino Studies B - UConn Conflict and Peace - Astronomy - Advanced Media and Broadcast Production - Broadcast Journalism (may be repeated for credit) - Journalism - Yearbook **Any sequence related courses in Grades 10 not yet taken	- AP Language and Composition - Creative Writing - AP Government - AP Psychology - AP Microeconomics - UConn Discrete math - AP Statistics - World language - Advanced Media and Broadcast Production - Yearbook - Broadcast Journalism (may be repeated for credit) - Experiential Learning/Internship Class: OSHA 10 (general industry) certificate **Any sequence related courses in Grades 10-11 not yet taken

Career Connections: Art director, audio video operator, editor, journalist, light director, producer, publisher, radio/television announcer, reporter, station manager, writer

Work-Based Learning Internship Opportunities: “The Pulse” Television news magazine program, The Nest, Internship at local employer or organization such as a local news station, marketing firm, publisher or other local employer. New internship opportunities will be designed based on student individual student interests and goals.

Industry Recognized Credentials: OSHA 10 (general industry) certificate in work-based learning internship class

Extra and Co-curricular Recommendations: PAC Advisory Board, Red Productions, Yearbook Club, Broadcast Journalism



PAC Pathway: Performing Arts/Theater/Dance/Cosmetology/Costume Design
 Capacities: Critical Thinking, Creative and Innovative Thinking, Collaboration, Communication

10 th Grade	11 th Grade	12 th Grade
• PAC Seminar • Acting 1 or 2 • Musical Theater • CCSU Hair and makeup for the stage • Cosmetology 101 (OSHA 10) • Costuming • Music Appreciation • Music Production and Business • Chorus • Concert Band • Songwriting • Piano • Guitar • Dance Ensemble • Fashion Design • Communication Workshop • Photography	• Theatrical Design • Acting 2 (if not taken in 10th grade) • CCSU Hair and Makeup for the Stage • AP Music Theory • Chorus • Concert Band • Musical Theater • Music Appreciation • Guitar 2 • Piano 2 • Digital music 1 • Fashion Design 2 • Graphic Design • Broadcast journalism **Any sequence related courses in Grades 10 not yet taken	• Creative Writing • American Music & Film • Fashion Design 3 • CCSU Hair and Makeup for the Stage • AP Music Theory • Chorus • Concert Band • Advanced Guitar Ensemble • Experiential Learning/Internship Class: OSHA 10 (cosmetology or general industry certificate) **Any sequence related courses in Grades 10-11 not yet taken

Career Connections: Art director, actor/actress, musician, stage manager, director, cosmetologist, fashion design, costume, stage production

Work-Based Learning/ Internship Opportunities: Drama Club, School Concerts. Work-Based Learning Internship at organizations such as: Little Theater of Manchester, WORK_SPACE art galleries, local salons/barbers and other employers. New internship opportunities will be designed based on student individual student interests and goals in field of interest

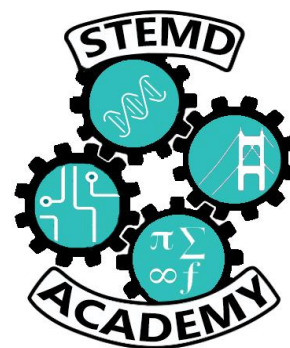
Industry Recognized Credentials: OSHA 10 (cosmetology) certificate in cosmetology class or in work-based learning internship class

Extra and Co-curricular Recommendations:-PAC Advisory Board, Dance Team, Chamber Orchestra, Jazz Chore, Marching Band, MHS Spring Musical, Roundtable Singers, Sock 'n-Buskin Drama Club, Santa Band, String Quartets, Cello Ensemble



STEM-D Academy

(Science, Technology, Engineering, Math and Design)



Overview: Technology is moving at unprecedented rates and in constantly changing formats. The STEM-D academy is designed to provide students with the skills necessary to succeed in this ever-changing and incredibly diverse field. Students in the academy have shown interests including mechanical engineering, auto mechanics, electronics, carpentry, research and development, architecture, various fields within science, and computer science, programming, manufacturing and engineering. Students will be given regular opportunities to create authentic projects that are directly connected to both their academic instruction and the community. The academy focuses on student-centered learning, and actively focuses on developing problem solving and critical thinking in students, particularly through the engineering design process. Students can explore careers and develop specific skills through numerous course offerings, and we are developing job shadowing opportunities as well. Experiences and course offerings are continually being designed based on the interests and input of the students.

Academy Highlights:

- Field trips to various engineering, manufacturing, and science research facilities, and other related activities.
- State Championship winning E-Sports team in League of Legends
- Girls Who Code Club and Hour of Code annual event in December
- Nearly 10 percent of academy students complete a paid experience in manufacturing or information technology annually.

Clubs and Activities

- STEM Advisory
- Skills USA

Extended Learning and Certifications

- Tooling U
- OSHA 10
- Department of Labor Pre-Apprenticeship Certificate
- Manchester Public Works
- Manufacturing Pre-apprenticeship
- IT Internships at MPS or local businesses

AP Courses and Opportunities for College Credit

- AP Precalculus
- AP Calculus AB & BC
- AP Chemistry
- AP Physics
- AP Computer Science
- CT State Microsoft Office Applications
- CT State Web Development
- CT State Conventional Manufacturing Process Lab
- CT State Accounting

Recent Graduates

- Lincoln Technical Institute
- New England Institute of Technology
- Rensselaer Polytechnic Institute
- University of Connecticut
- Worcester Polytechnic Institute

STEM Pathway: Transportation (Auto/Aviation)

Capacities: Critical Thinking, Self-Direction and Process Monitoring, Problem solving, Collaboration

10 th Grade	11 th Grade	12 th Grade
- Algebra 1 - Geometry/Statistics - Biology - World language - Intro to Business - Explorations in STEM - Robotics - Electronics 1 - Automotive Technology 1 - Aviation & Aerospace - Mobile apps	- UConn American Studies - American Literature - US History - Sociology - Psychology - Chemistry - Alg 2 - World language - Introduction to computer science - Tools 1 & 2 - Intro to business - CCSU Entrepreneurship - Marketing - Web page design - Automotive Technology 2 (may be repeated for credit) - Personal finance - Engineer and design *Any sequence related courses in Grades 10 not yet taken	- Senior English - Creative Writing - AP Microeconomics - AP Environmental - Physics 1 - AP Physics - AP Chemistry - Problem Solving - Precalculus or AP precalculus - AP Calculus AB or BC - AP Stats or senior stats - World language - AP Computer science - CTState Manufacturing math - CTState College accounting - Automotive Technology 2 (may be repeated for credit) - Electronics - Robotics - Computer Aided Drafting - Experiential Learning/Internship Class (OSHA 10 Auto) *Any sequence related courses in Grades 10-11 not yet taken
Career Connections: Auto mechanic, automotive and related repairs, auto shop owner, commercial pilot, flight engineer, transportation manager, truck driver		
Work-Based / Experiential Learning Opportunities: Town TRADE Program, Work-Based Learning Internship in field of interest (auto shop, car dealer, aviation parts). Other opportunities may be designed based on individual student interest and goals.		
Industry Recognized Credentials: Work-Based Learning/Internship Class OSHA 10 (focus on automotive) certificate in Auto 1 class		
Extra and Co-curricular Recommendations: TSA (Technology Student Association), STEM-D Student Advisory Board, Go Baby Go		



STEM Pathway: Manufacturing

Capacities: Creative and Innovative Thinking, Problem solving, Collaboration, Cultural and Global competence

10 th Grade	11 th Grade	12 th Grade
- Algebra 1 - Explorations in STEM - Woodworking 1 - Robotics - Electronics 1 - CTState Computer Aided Design and Drafting 1-Solidworks - CTState Engineering Drawing Interpretations - Mobile Apps	- American Literature - American Studies - US History - Geometry - Algebra 2 - CTState Manufacturing Process Lab - Computer Aided Design and Drafting 2 - Woodworking 2 - Auto - Electronics 2 - Auto 1 - Engineer & Design	- Physics - AP Statistics - Senior Statistics - Problem solving - Data science - CTState Manufacturing Math - Manufacturing Pre Apprenticeship - Auto 2 - Experiential Learning/Internship Class *Any sequence related courses in Grades 10-11 not yet taken

Career Connections: Assembler, electrical installer and repairer, machine operator, milling machinist, safety engineer/technician, quality control technician, welder

Work-Based Learning/Internship Opportunities: Manufacturing Pre Apprenticeship, Town TRADE Program, Work Based Learning Internship in field of interest (local manufacturer, engineering firm)

Industry Recognized Credentials: Department of Labor Pre-Apprenticeship Certificate in pre-apprenticeship class, Tooling U Certificate, OSHA 10 (manufacturing focus) in pre-apprenticeship class, OSHA 10 (manufacturing or general industry focus) in Work-Based Learning/Internship class

Extra and Co-curricular Recommendations: TSA (Technology Student Association), STEM-D Student Advisory Board, Go Baby Go

Additional Occupational Information Within this Pathway (please scan QR code):

Manufacturing



STEM Pathway: Architecture and Construction

Capacities: Creative and Innovative Thinking, Self-Direction and Process Monitoring, Problem solving, Collaboration

10 th Grade	11 th Grade	12 th Grade
• Biology • Geometry • Explorations in STEM • Construction Technology 1 • Architecture 1 • Woodworking 1 • Robotics • Electronics 1 • CTState Computer Aided Design and Drafting 1-Solidworks • CTState Engineering Drawing Interpretations	• Sociology • Psychology • Chemistry • AP chemistry • Algebra 2 • AP Precalc • Precalc • Construction Technology 2 (may be repeated for credit) • Woodworking 2 (may be repeated for credit) • Architecture 2(may be repeated for credit) • Computer Aided Design and Drafting 2 • Electronics 1 (may be repeated for credit) • Photography	• Senior English • Creative Writing • AP Government or civics • Psychology • AP Psychology • AP Microeconomics • Economics • AP Environmental • Physics • AP Physics • Precalculus • AP Precalculus • AP Calculus AB • AP Calculus BC • AP Computer science • Computer programming • Construction Technology 2 (may be repeated for credit) • Woodworking 2 (may be repeated for credit) • Experiential Learning/Internship Class *Any sequence related courses in Grades 10-11 not yet taken
Career Connections: Carpenter, concrete, construction engineer, contractor, design builder, electrician, HVAC (heating, ventilation, air conditioning), mason, plumber, sheet metal worker		
Work-Based Learning/Internship Opportunities: Town TRADE Program, Work based Learning Internship in related fields (local Builder, Town TRADE program, Habitat for Humanity). Other opportunities may be designed based on individual student interest and goals.		
Industry Recognized Credentials: Experiential learning OSHA 10 (construction or general industry focus) certificate, Work-Based Learning/Internship in field of interest		
Extra and Co-curricular Recommendations: TSA (Technology Student Association), STEM-D Student Advisory Board, Go Baby Go, Habitat for Humanity		



STEM Pathway: Computer Science / Information Technology

Capacities: Critical Thinking, Self-Direction and Process Monitoring, Problem solving, Cultural and Global competence

10 th Grade	11 th Grade	12 th Grade
• Biology • Algebra 2 • Explorations in STEM • Computer Programming 1 • CTState Web Page Design • CTState Microsoft Office Applications • Robotics 1 • Electronics 1	• Chemistry • AP Chemistry • Precalculus • AP Precalculus • Game Design • Mobile App Design • Electronics 1 & 2 • Robotics • Robotics 2 *Any sequence related courses in Grades 10 not yet taken	• AP Calculus AB • AP Calculus BC • Discrete math • AP Statistics • Statistics • AP Computer Science • Computer programming and game design • Experiential Learning/Internship Class: OSHA 10 (general industry) certificate *Any sequence related courses in Grades 10-11 not yet taken

Career Connections: animator, audio visual engineer, computer Programmer, cybersecurity, data systems designer, database administrator, game designer, media specialist, software design engineer, PC support, social networking specialist, web designer

Work-Based Learning/Internship Opportunities: Work-based Learning Internship in career of interest (MPS IT, local IT employer, web designer, computer repair shop). Other opportunities may be designed based on individual student interest and goals.

Industry Recognized Credentials: Work-Based Learning/Internship Class: OSHA 10 (IT) certificate

Extra and Co-curricular Recommendations: TSA (Technology Student Association), STEM-D Student Advisory Board, Girls Who Code, E-Sports

Additional Occupational Information Within this Pathway (please click QR code):



STEM Pathway: Engineering

Capacities: Creative and Innovative Thinking, Self-Direction and Process Monitoring, Problem solving, Cultural and Global competence

10 th Grade	11 th Grade	12 th Grade
- Algebra 2 - Biology - Engineering Design - Explorations in STEM - Construction Technology 1 - Electronics Technology 1 - Architecture - Computer programming - Aviation & Aerospace Additional Occupational Information Within this Pathway (please click QR code): 	- AP Literature and composition - Chemistry - Science Research - Precalculus - AP Precalculus - Construction Technology 2 - Electronics Technology 2 - CTState Engineering Drawing Interpretations - CTState Computer Aided Design and Drafting 1-Solidworks - Manufacturing Process Lab *Any sequence related courses in Grades 10 not yet taken	- AP Language and composition - Physics - AP Physics - AP Chemistry - AP Environmental - Anatomy and Physiology - AP Computer Science - UConn Concepts of Elementary Statistics - AP Calculus BC - CTState Computer Aided Design and Drafting 2 - Experiential Learning/Internship Class: OSHA 10 (general industry) certificate *Any sequence related courses in Grades 10-11 not yet taken
Career Connections: Aerospace engineering, chemical engineer, computer engineer, manufacturing engineer, mechanical engineer, engineering applications, robotics		
Work-Based Learning/Internship Opportunities: Work-Based Learning Internship in field of interest (Fuss and O'Neil, ACMT, other local employer)		
Industry Recognized Credentials: OSHA 10 (general industry or IT) certificate in work-based learning internship class		
Extra and Co-curricular Recommendations: TSA (Technology Student Association), STEM-D Student Advisory Board, Go Baby Go		

ACADEMY SPECIFIC COURSES

CREDIT KEY



STEM



HUMANITIES



WORLD
LANGUAGE



HEALTH & SAFETY



PHYSICAL
EDUCATION



ARTS



HUMANITIES
ELECTIVE



STEM
ELECTIVE

Education & Public Services Academy

FC9516 Introduction to Education and Public Services Academy—Unleveled

Q1/Q2 10-12 .25 CR

This course is for students entering the Education/Public Services Academy. The focus of instruction will include student centered activities that examine careers in Education and Public Service. Students will be exposed to guest speakers from various occupations and engage in panel discussions with many professionals. Exploration will include issues, policies and trends in education and public service as well as topics of diversity and equity, law and ethics.

EN8033 Abnormal Psychology in American Literature—Multi-level

11 1.0 CR

Available to EPSA juniors only (or administrative approval), this college prep English course examines American literature through a psychological lens. Students will explore the roles of development, mental illness, stress, and addiction as they pertain to American authors, classic literary characters, and the collective American identity. This course will be team taught by members of the Social Studies and Language Arts faculty and will emphasize close, thoughtful reading, in-depth research, and careful expression in spoken and written communication.

SS2137 Education In A Multicultural Society—Honors



1S/2S 10-12 .50 CR

Education In A Multicultural Society is an introductory course focused on the evolving purposes and roles of education and teachers in American society, issues of diversity and equity in education, and the societal and cultural factors, key policies, and court cases that have shaped education in the U.S. **Students may be eligible to apply for CCSU credit.** EPSA students have priority in enrollment.

FC2127 CCSU Introduction to Early Childhood Education Studies—Honors



1S 11-12 .50 CR

Does your future include children? Do you see yourself as a preschool or elementary school teacher, social worker, or in another childcare-related occupation? This class focuses on the foundational aspects of infants' and toddlers' social and emotional development to early childhood from birth through five. At the end of the course, candidates should be able to identify developmentally appropriate practices in different types of programs that develop and promote the social, emotional, and mental development of infants, toddlers, and preschool children. This course includes visits to CCSU and possible internship/ community service learning components and is the equivalent of the CCSU course EDEC 101. Students have the possibility of earning 3 CCSU credits Possible.

Global Studies Academy

ND9611 Global Studies Academy Seminar

1Q 10 .25 CR

Preferably taken as an overview of the Global Studies Academy during the GSA student's sophomore year. Course provides students with an opportunity to better understand each of the elements within the GSA Academy while offering an introduction to the complexities of living, learning and working in a globalized world. Students' experience in this course will culminate in a deeper dive into individual interests through a passion project.

Medical Careers Academy

SC9106 Investigations in Health Careers—Unleveled



10 .50 CR

Prerequisite: Enrolled in the Medical Careers Academy or permission of Academy Administrator

Students in this course will explore assorted career clusters such as Dentistry, Veterinarian Services, Medical Imaging, Therapeutic Services, Sports Medicine, Nursing, Emergency Medical Technician and Pharmacy Services. Students will expand their knowledge by completing labs embedded with clinical skills related to their interests. Course topics will also include medical legal issues, ethics, basic anatomy and physiology, medical terminology, and public health. Students will complete a personalized research project to determine a tangible pathway for a healthcare career that works for them.

SC9117 Sports Medicine—Unleveled



2S 11-12 .50 CR

Prerequisite: Investigations in Health Careers or permission of Academy Director

Students are introduced to the discipline of kinesiology and recreation. They will study the effects of physical activity on human beings. Topics will include exercise physiology, biomechanics, motor behavior and socio/psychological perspectives of participation in activity through the lifespan. Students will also investigate how the discipline can be applied professionally. A Physical Therapy Assistant certification opportunity may be developed in the future, but is not currently available.

SC9028 CNA Training



11-12 1.25CR

Prerequisites: Completion of board of education waiver forms and interview. Students must be 16 or older by completion of the course. Students must meet vaccination requirements specified by the long-term care facility.

This class provides the information and skills training that will enable individuals to provide quality care for residents in long-term care facilities and other health care settings. A CNA scope of practice includes providing basic care to patients while under the direction of the nursing staff. Students will need to meet the attendance requirements at MHS for both the theory as well as clinical practice of the 32 skills prior to completing clinical hours at our Long-term care partner location. During clinical rotations students will assist residents with bathing, grooming, dressing, assisting residents with eating, ambulating, vital signs, repositioning residents, providing bedpans, changing bed sheets and answering resident's call lights. Students who successfully complete this training will be eligible to take the

state exam for certification as a nurse assistant (CNA). This exam can be scheduled after class completion through Prometrix. Prior to enrollment, students must complete an application packet that is signed by a parent/guardian committing to the intent to complete the minimum of 120 clinical/observation hours of training required by the state. In order to sit for the state certification exam, students must attend class, practice clinical skills in our classroom lab and demonstrate mastery of their skills during mandatory clinical observation hours outside of the traditional classroom day. Students will be required to adhere to the dress code of the facility. Up to date COVID immunization records are required.

SC2057 UCONN EMT 1 (Formerly called Introduction to Allied Health) Honors



11-12 1.0 CR

1 hour of ECE UConn Credit Possible

AH1100

Prerequisites: Completed Biology with a passing grade. Interest in Medical Careers. This class will introduce and prepare students to take a future EMT class. Within the class students will participate in an Emergency Medical Responder (EMR) class aligned with Connecticut OEMS. Upon successful completion, students may receive certification at the Emergency Medical Responder level. Emergency Medical Responders provide immediate lifesaving care to critical patients who access the emergency medical services system. EMRs have the knowledge and skills necessary to provide immediate lifesaving interventions while awaiting additional EMS resources to arrive. EMRs also provide assistance to higher-level personnel at the scene of emergencies and during transport. Emergency Medical Responders are a vital part of the comprehensive EMS response. Under medical oversight, Emergency Medical Responders perform basic interventions with minimal equipment.

[From the: *National EMS Scope of Practice Model*] **Successful completion of an OEMS-approved Emergency Medical Responder (EMR) training program in Connecticut with a minimum of 60 hours (including written and practical examinations).** Students may be eligible to receive UCONN credit for this course.

SC2047 UConn ECE Medical Terminology - Honors



11-12 1.0 CR

Prerequisites: C or better in Biology, Human Anatomy & Physiology and English (CP level or higher).

This Early College Experience course focuses on the introduction and mastery of medical terminology through presentation of word roots, prefixes and suffixes. It gives students the chance to earn 1 semester hour credit from the University of Connecticut for successful completion. **Students may be eligible to receive UCONN credit for this course.**

Performing Arts & Communications Academy

PA9716 Performing Arts & Communications Academy Seminar —Unleveled

1Q/2Q/3Q/4Q 10-12 .25 CR

This is a recommended course for all PAC students that may be taken during sophomore or junior year (optional for the students in the Classes of 2017 and 2018). Teachers will work closely with the students to identify and pursue personalized explorations and career pathways (performing arts and communications or otherwise) that meet the students' needs and interests. This may include experiential learning or in-depth research designed to prepare students for an independent capstone project.

Science, Technology, Engineering, Math and Design Academy

TI8105 Explorations in STEM—Multi-Level

1S/2S 9-12 .50 CR

Students will complete a variety of projects while using computer software programs and workshop tools/equipment to discover concepts of communication, construction, transportation, manufacturing, design, and engineering. Class activities include Internet Research, Basic understanding of the Computer, Bridge Design, Architecture, Laser Manufacturing, Magnetic Levitation, Robotics and more.

ART DEPARTMENT

Visual arts are essential to your complete education. Study in the visual arts helps develop your intellect and provides you with the skills necessary for effective communication, and problem solving by teaching you to:

- Create artworks that express concepts as well as your ideas and feelings.
- Respond with understanding to diverse artworks.
- Understand and use materials, techniques, forms and language relevant to visual arts.
- Understand the importance of visual art in expressing and illuminating human experience, beliefs and values.
- Identify works of art and recognize characteristics of art from different historical cultures and periods.
- Develop mastery in at least one art form to continue lifelong involvement as a responder and a creator.
- Develop mastery in preparation for a career.
- Participate in the artistic life of the school and/or community.
- Understand the connection between visual arts and daily life.

Career Ideas in Art:

Architect
Animator
Craftsperson
Designer
Digital Media Artist

Gallery Curator
Illustrator
Museum Curator
Photographer



We encourage all students at MHS to take advantage of the many art course offerings we have for beginning and advanced level study.

For students considering going to Art School or considering a career in the arts it is highly recommended that students take the beginning drawing class.

The major goal of the Art Department is to develop the students' creative skills as well as their recognition of the artistic achievements of others. The students will develop and demonstrate an awareness and understanding of the diversities of American and World Cultures through the arts. They will be encouraged to challenge themselves and strive for excellence in their own artwork. The courses will encourage personal growth through the exploration of career goals in the art field.

The Art Department offers the following courses:

2 Dimensional Art Courses

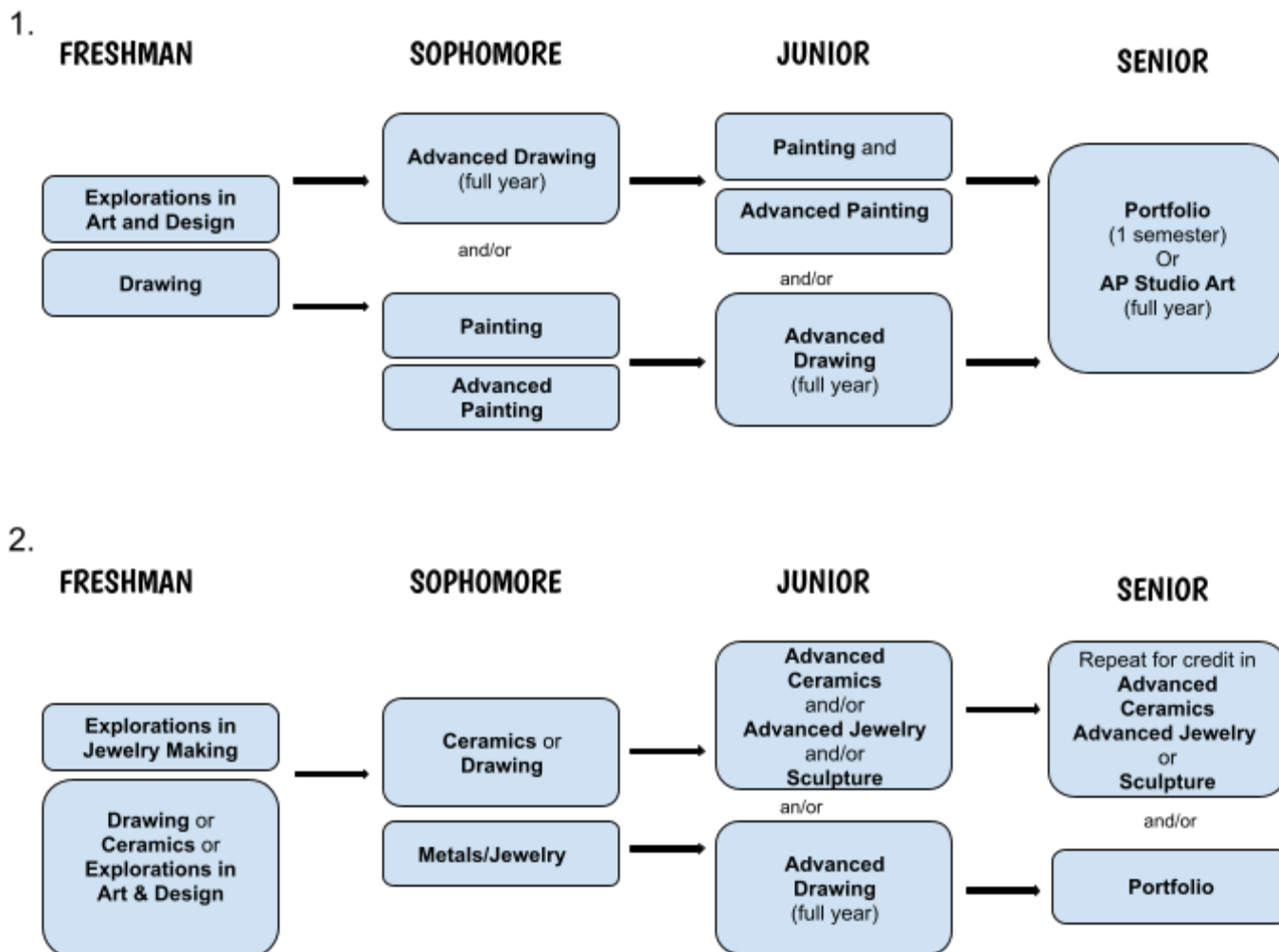
Explorations in Art & Design*
Digital Art
Drawing*
Advanced Drawing
Painting
Advanced Painting
Advanced Placement Studio Art
Portfolio Preparation
Comic Design

3 Dimensional Art Courses

Explorations in Jewelry Making*
Sculpture*
Metalsmithing/Jewelry*
Advanced Jewelry/Metals
Ceramics*
Advanced Ceramics
Wheel Throwing Pottery

* Courses with an asterisk (*) have no sequential requirements.

Two Possible Sequences for Students Interested in Art Schools After High School:



Art Courses

BEGINNING LEVEL COURSES

AR3315 Explorations in Art and Design—College Prep

1S/2S 9-12 .50 CR

Students will explore the idea of art as a tool of communication. A variety of art making processes and techniques will be explored including drawing, painting, printmaking and collage. Individual projects will be assigned along with the reading and research of a vast array of artists from around the world.

AR8125 Drawing—Multi-Level

1S/2S 9-12 .50 CR

This course is a prerequisite for Advanced Drawing and Painting. It is recommended for all students planning a career in the Fine Arts, commercial arts and architecture. Students will focus on improving observational drawing skills by looking at a variety of objects and drawing them. The self portrait is emphasized as a traditional subject matter. The course focuses on a variety of drawing media, design skills, shading and perspective to create the illusion of three dimensions. Students may petition for College Prep level credit. This course builds technical skill and enhances hand-eye coordination through a variety of 2D lesson activities. Students can expect to gain a fundamental knowledge of the Elements and Principles of Art, and have opportunities for self and peer reflection to develop their skill and creativity.

AR8105 Explorations in Jewelry Making—Multi-Level**1S/2S 9-12 .50 CR**

In this class, students will design one of a kind pieces of jewelry while becoming familiar with the jewelry studio and its tools and materials. Students will work with metal sheet, wire, beads and glass using jewelry tools such as saws, files, pliers, stamps, drills, and hammers. Students will explore different ways of connecting parts through cold connections such as rivets, jump rings, tabs, and screws. In addition, students will learn a variety of versatile metalsmithing techniques from chasing and design stamping to roller texturing on metals to create unique surfaces for original jewelry designs.

AR8175 Metalsmithing/Jewelry—Multi-Level**1S/2S 9-12 .50 CR****1S/2S 9-12 .50 CR**

Students will design and create one-of-a-kind jewelry pieces while learning a variety of jewelry making techniques including silver soldering. Students will gain knowledge in jewelry making techniques and tool use such as sawing, filing, stamping, rolling, piercing, soldering, sanding, polishing and stone setting. Students will research and sketch ideas, learn how to lay out a design and bring the idea to life with metal, wire and other objects. The proper use, care, storage and safety of art materials will be taught in addition to an understanding of the elements and principles of art and design. Students will be encouraged to communicate an idea through their works of art by using media, methods, and concepts appropriate to their intent.

AR8145 Ceramics—Multi-Level**1S/2S 9-12 .50 CR**

This is a course in functional and non-functional ceramic design. Basic forming techniques (coil, pinch and slab) will be used to make a variety of projects. Firing and glazing techniques will be explored.

AR8165 Sculpture—Multi-Level**1S/2S 9-12 .50 CR**

This course explores three-dimensional experiences in sculptural media. Additive and subtractive sculpture techniques will be included using media such as paper, cardboard, yarn, wire, plastic and wood as students create sculptural forms. Student projects allow for creative problem solving and individual interpretation.

AR8305 Comic Design—Multi-Level**1S/2S 9-12 .50 CR**

In this course we will create works that explore the potential of visual literacy through the medium of comics. In it, we will create visual puns, political statements, story-telling with pictures and words, and develop an understanding of how pictures can move or even change meaning. The course also explores different comic forms including panels, strips, splash pages, and multi-panel pages. This is not so much a class on drawing, but rather a course on communication through visual media, making it accessible to students of all skill levels of drawing. Students can expect mainly hands on tactile drawing media like pencil, copic markers, and tools and techniques for duplicating/tracing their designs.

ADVANCED LEVEL COURSES**AR2026 Advanced Drawing—Honors****10-12 1.0 CR**

Sequential: A B+ or higher in Drawing unless approved by the class instructor is required to enroll in this course.

This is a full year course recommended for students who have a strong interest in drawing. A variety of media including colored pencils, graphite, pastels, pen and ink, charcoal and collage is utilized. Mark making techniques are explored through observational and imaginative subject matter. You will need to purchase a sketchbook for homework assignments.

AR8136 Painting—Multi-Level**1S/2S 10-12 .50 CR**

Sequential: Drawing unless approved by the class instructor

This is an introduction to painting using acrylic paint on canvas. You will learn basic painting techniques and color theory. Subject matter may include the still life, landscape, and abstraction. You will study in depth a number of well known painters. You will need to purchase a sketchbook for homework assignments.

AR2236 Advanced Painting—Honors**2S 10-12, 9 S2 .50 CR***Prerequisite: Painting*

This course is recommended for students who have a strong interest in painting and wish to pursue advanced techniques. Subject matter includes the still life, landscape, and portrait on larger sized canvases. You will need to purchase a sketchbook for homework assignments. Students may elect to receive honors level credit for this course.

AR2256 Advanced Ceramics —Honors**1S/2S 10-12 .50 CR****2/S 9 .50 CR***Prerequisite: Ceramics*

The students will work on variations of the basic forming techniques in pottery. The planning of projects will involve historical research on design and procedures. This ceramics course will have an emphasis on learning and mastering the potter's wheel. The course may be repeated twice for credit with an emphasis on individual and advanced projects.

AR8315 Wheel Throwing Pottery—Multi-Level**1S/2S 10-12 .50 CR***Prerequisite: Ceramics*

Wheel thrown pottery is pottery created on a potter's wheel. You attach a ball of clay to the wheel, it spins, and the artist sculpts the ball of clay into a pot. It sounds easy, but as any pottery student can tell you, it's pretty challenging. The students must first learn to center the clay, then open the pot and draw up the walls. After they successfully create a pot, they still have to learn to trim, detail, glaze, and sometimes pull & attach a handle. Students will be excited to create utilitarian pieces that are food and dishwasher safe forms such as bowls, mugs, and plates.

AR8286 Advanced Jewelry/Metals—Multi-Level**1S/2S 10-12 .50 CR***Prerequisite: Metalsmithing*

Students with previous experience will be introduced to more advanced jewelry and metalsmithing techniques. The projects may include but are not limited to chain making, stone setting, enameling and forming and raising of metal. Demonstrations and discussion support in-class work and experimentation are encouraged. Individual research of historical and contemporary metal art will inspire work. The use of precious metals or stones are at the students' own expense. Students who desire to do more in-depth work in the course may request honors level within the first two weeks.

AR2144 Portfolio Preparation—Honors**1S 11/12 .50 CR***Sequential: Painting or Advanced Drawing unless approved by the class instructor*

The course is designed for students who are contemplating a career in some field of art. Projects will be done in various two dimensional media, including creative work with computer graphics, mixed media and traditional techniques. It will help them to prepare and organize their work for presentation to prospective employers or for college admission. It is recommended that students electing this course have taken as many additional art courses as possible before their senior year. Students may elect to receive honors level credit for this course. In addition to the regular curriculum, honors level students will fulfill an additional set of requirements each quarter. This option is available by arrangement with the instructor.

AR1007 Advanced Placement—Studio Art**11-12 1.0 CR***Sequential: Advanced Painting or Advanced Drawing unless approved by the class instructor*

This is a rigorous college level experience emphasizing an area of studio art in depth. The work produced is critiqued on the basis of college standards. Throughout the course, criticism and relevant art history information will be addressed. The Advanced Placement Program is a cooperative education endeavor of the College Board. Advanced Placement in Studio Art is a full year program of study. A minimum of a B average in Drawing, Advanced Drawing, Painting and at least one other studio class, as well as a teacher recommendation are required. There is a lab fee for this course. All students are required to complete the AP Portfolio. If you elect not to send it to the College Board, you will receive Honors Level credit. For AP Level credit, you must pay the fee and submit the portfolio to the College Board.

AR8525 Digital Art and Design —Multi-Level
1S/2S 9-12 .50CR



In this course we will learn how to control computer technology using Photoshop, Illustrator, and ProCreate to produce an artistic image. We will also learn computer illustration and drawing techniques using IPads and styluses. Topics also covered will focus on digital camera use, graphic design, visual literacy, advertising, and the elements and principles of art in composition. Art historical movements and artists will also be studied as they relate to student projects.

BUSINESS AND FINANCE TECHNOLOGY DEPARTMENT

Get ready for college! Get ready for life!

The Business and Finance Technology Department offers a variety of courses that prepare students for life after high school. Whether you plan on immediately entering the workforce or majoring in Business Administration in college (according to The Princeton Review Business Administration is the most popular college major!),

we surely have a course that will provide you with business and technology skills that will last a lifetime!

Careers ideas in Business & Finance Technology



Accountant	Investment Banker
Bank Exec	Research Analyst
Computer Programmer	Restaurant Manager
Financial Analyst	Securities
Insurance Adjuster	Web Designer

Departmental extracurricular opportunities include:

Future Business Leaders of America Club (F.B.L.A.)

School Based Enterprises

- The School Store is located in the cafeteria at Manchester High School. Students that have completed Marketing I where student leaders manage all aspects of retail store operations including product development, marketing research, sales, promotion, money management, budget preparation, and accounting.
- The Northeast Family Federal Credit Union MHS branch is located in the cafeteria of Manchester High School. Student interns are trained to work as tellers in this fully functional branch of the credit union.

Consider taking one of our exciting business electives!

Accounting and Finance

College Accounting
Personal Finance
College Financial Literacy

Marketing

Marketing 1
CCSU Entrepreneurship
School Store Internship

Computer Information Systems

Computer Programming 1
Microsoft Office Applications
Web Design

Career Readiness

Credit Union Internship
School Store Internship

Business Management

International Business
Introduction to Business
Sports and Entertainment Management

Business and Finance Courses

BU8027 CT State College Accounting—Honors



10-12 1.00 CR

Prerequisite: Algebra 1—Must pass with a grade of C or higher

College Accounting is a full year course that is articulated with Manchester Community College and adheres to their instructional guidelines. Students will be introduced to the basic elements of the accounting equation as well as financial statements, and ratio analysis that are used by businesses to make important resource allocation decisions. This class corresponds to the CT State ACC113: Financial Accounting. **Students who elect to enroll in the College Career Pathways Program who take this class in their sophomore, junior or senior year and receive a grade of B or higher may be eligible to receive 4 CT State credits which may be transferable to other institutions of higher education.**

BU8536 Personal Finance—Multi-Level



9-12 .50 CR

Money doesn't grow on trees, and everyone should learn to be financially responsible. Topics covered in this class are useful, realistic, and will help students gain control over the financial impact of the choices they make. Students will learn to create and use a budget, borrow and invest wisely, make intelligent decisions about insurance, understand taxes, and plan for the costs of large purchases and investments such as college or other types of postsecondary training. Students will participate in the popular stock market simulation that encourages students to compete against other students throughout Connecticut for the potential of winning prizes and college scholarships. **Students who successfully complete this class will fulfill the requirement for financial literacy that is necessary for graduation.**

BU8546 CT State College Financial Literacy—Honors

10-12 .50 CR

Prerequisite: Personal Finance Must pass with a grade of C or higher

This course builds upon basic concepts taught in Personal Finance and will teach students essential decision-making skills they must apply and use to become wise and knowledgeable consumers, savers, investors, users of credit, money managers, citizens, and members of a global workforce and society. This college level course is designed to incorporate concepts and skills from mathematics, language arts, social science, applied technology, character education, and other interdisciplinary areas. In addition, students will be familiarized with the basics of the accounting equation and financial statement analysis. This course corresponds with the CT State course BF111: Financial Literacy. **Students enrolled in the College Career Pathways Program who take this class in their sophomore, junior, or senior year may be eligible to receive 3 CT State credits which may be transferable to other institutions in higher education.**

BU8104, BU8204 Credit Union Internship—Multi-Level

11, 12 .50 CR

Prerequisite: Open to seniors only: Students should apply in their junior year. Recommended successful completion of Marketing 1, College Accounting, and/or College Financial Literacy or permission of instructor

Students who meet the prerequisite requirements are encouraged to apply for this internship. Selected students will work in the Northeast Family Federal Credit Union branch located at Manchester High School. Upon completion of a background check and rigorous employee training, selected students will work with credit union staff members in our fully functional credit union located in the cafeteria of the high school. Student employees will assist customers in everyday transactions including deposits, withdrawals, check cashing, balance inquiries, and opening/closing accounts. The credit union will train interns to perform job duties and may offer after-school and/or summer paid employment opportunities to selected students.

BU2105 CCSU Entrepreneurship—Multi-Level

10-12 .50 CR Prerequisite: Introduction to Business or Marketing 1

This class is for any student thinking about starting his or her own business. Ever seen Shark Tank/? If you love this show this class is for you. In this course students will learn the basics of how to turn a great idea into a successful business venture by writing a business plan worthy of pitching to an investor. This course builds upon student knowledge learned in Marketing 1 or Intro to Business. Students will learn what type of business ownership is right for them, study legal issues, business finance/start-up costs, site selection, marketing, pricing strategies, all leading to the creation of a business plan around the students' product/service ideas of choice. Students will collaborate with various local business owners in the community and pitch their ideas "Shark Tank" style to local investors. **Students who elect to enroll in the Central Connecticut State University Early College Experience program may submit an application to receive CCSU credit for successfully completing this course.**

BU8536 Personal Finance—Multi-Level

BU8305 International Business—Multi-Level

9-12 .50 CR

When you think about where you want to be in life, are you thinking about the whole world? If so, international business may be the course for you. This class will give you an increased awareness of the economic, political, geographic and sociocultural factors that impact doing business in our global society. Students will explore the basics of international business, including international business careers, laws and ethics, currency exchanges, communication challenges, and risks involved in global business activities. An emphasis of this course will include exploration and appreciation of cultural differences that impact international trade relationships.

BU8715 Introduction to Business—Multi-Level

9-12 .50 CR

Future business leaders, this class is for you! The course is intended for all students interested in running a business, going to college to earn a post-secondary degree in business, or who simply have a desire to explore career opportunities in the business world. In this introductory course, students will learn business principles using real-world examples and will learn what it takes to plan and launch and sustain a product or service in today's fast-paced business environment, through exposure to a variety of guest speakers and field trip experiences to local businesses and corporations. In this course students will apply what they learn through authentic projects involving economics, marketing, accounting, management and entrepreneurship concepts.. This course will help you decide which upper level courses are right for you.

BU8527 Sports & Entertainment Management—Multi-Level



9-12 .50 CR

Are you interested in working in the sports and entertainment industry someday? This class dives deep into learning about what it takes to have a successful career marketing and managing a sports team, entertainment production and/or famous personalities. Students will learn about this industry by taking field trips and learning about local industry sports and venues like the Yard Goats, Rentschler Field and UConn Sports and will design marketing campaigns tied to local or professional/college sports, gaming, film, music, or fashion.

BU2116 CCSU Marketing 1—Honors



9 -12 .50 CR

Do you have big ideas that can help a business make money? This course will introduce you to basic marketing strategies and give you opportunities to solve real world problems that matter to you. Students will research the needs and wants of customers, design marketing campaigns, and pitch "big idea" solutions to boost sales and profits. Students who successfully complete this course can apply to take the Internship class in the school store. Students may be eligible to receive CCSU credit for this course.

BU8536 Personal Finance—Multi-Level



9-12 .50 CR

Money doesn't grow on trees, and everyone should learn to be financially responsible. Topics covered in this class are useful, realistic, and will help students gain control over the financial impact of the choices they make. Students will learn to create and use a budget, borrow and invest wisely, make intelligent decisions about insurance, understand taxes, and plan for the costs of large purchases and investments such as college or other types of postsecondary training. Students will participate in the populate stock market simulation that encourages students to compete against other students throughout Connecticut for the potential of winning prizes and college scholarships. Students who successfully complete this class will fulfill the requirement for financial literacy that is necessary for graduation.

BU8127 School Store Internship—Multi-Level

1S 10-12 .50 CR

BU8227 School Store Internship—Multi-Level

2S 10-12 .50 CR

Prerequisite: Marketing 1.

Marketing interns are student leaders who run the school store at MHS. Major responsibilities of marketing interns include the preparation of financial statements, development of new and improved products and services, conducting marketing research, designing promotional campaigns, and training new interns. Students will be primarily assessed as if they were working in an actual retail setting. Throughout this course experience, students prepare themselves for the workforce by preparing for the National Retail Foundation Customer Service and Sales Certificate Exam, a nationally recognized industry credential. This course may be repeated for credit.

Computer Information Systems Course Offerings

BU8185 Computer Programming I—Multi-Level



9-12 .50 CR

This course is designed to teach the fundamentals of object-oriented programming using current object-oriented programming languages (Python). **Emphasis is placed on designing and creating well-structured programs using the programming process. Students will learn vocabulary, code syntax, and programming logic as they design and code programs.**

BU8326 CT State Microsoft Office Applications—Honors



9-12 .50 CR

(CT State—CSA 105: Introduction to Software Applications)

According to [Statistica](#), Office 365 is used by over a million companies worldwide, with over 731,000 companies in the United States alone using the office suite software. In this course students will develop skills in Microsoft Word, Excel and PowerPoint by creating a variety of authentic communication projects. This course is intended to prepare students to successfully complete the highly valued Microsoft Office Specialist exam in Word, Excel or PowerPoint. Passing this exam demonstrates proficiency in Microsoft Office Applications to prospective employers. **Students enrolled in the College Career Pathways Program who take this class in their sophomore, junior, or senior year may be eligible to receive 3 CT State credits which may be transferable to other institutions in higher education.**

BU8706 CT State Web Design —Honors



9-12 .50 CR

This course is designed to prepare students to create visually appealing websites designed to communicate an organization's goals and identify their target audience. This college-level class provides instruction and application of Web Design skills using HTML5, CSS (Cascading Style Sheets), and Adobe PhotoShop. This course corresponds with the CT State course CSTB150: Web Design and Development. **Students enrolled in the College Career Pathways Program who take this class in their sophomore, junior, or senior year may be eligible to receive 3 CT State credits which may be transferable to other institutions in higher education.**

BUSINESS, MARKETING, FINANCE AND COMMUNITY SERVICE INTERNSHIPS

Explore careers in business, finance, law or community service by signing up for a business related career exploration internship! Throughout this experience, you'll investigate whether a career path is a good fit for you and learn what it takes to succeed in a chosen field of interest. You will work closely with a school based mentor in addition to professionals at the agreed upon internship site to prepare for the experience. Internships are usually paid and may take place in school or off campus, during or after school hours. This course may be repeated for credit. Business internships include:

- **BU 9725 BUSINESS, MANAGEMENT, MARKETING AND FINANCE Internship:** Possible internship sites include: Northeast Family Federal Credit Union, Webster Bank, Chamber of Commerce, accounting firms, insurance agencies, realtors and other local employers. New opportunities may be designed specifically based on individual student interests and goals.
- **BU 9825 Government, Law and Public Administration Internship:** A few examples of government and public administration internships include: Town of Manchester, local politician's offices, law offices and more. New opportunities may be designed specifically based on individual student interests and goals.
- **BU 9925 Community Service Internship:** Earn credit by designing a community service project that you are passionate about that fits into your future plans. A few examples of community service internships include: Volunteering at a local food pantry, local school, Manchester Youth Service Bureau and more! New opportunities may be designed specifically based on individual student interests and goals

Career Ideas in English:



Digital Copywriter
Editorial Assistant
Journalist
Librarian

Media Researcher
Social Media Manager
Teacher
Writer

ENGLISH

The English Language Arts Program is designed to prepare students for the demands of today as well as the world of tomorrow. Curriculum is based on the Common Core State Standards in which instruction prepares students to listen, view and read critically, and to speak and write effectively. Students have ample means and opportunity to use technology as a tool for learning and communicating ideas in preparation for 21st century careers.

Students are exposed to myriad texts including the classics, young adult literature, non-fiction pieces, plays, poetry, and films. Students evaluate universal themes, explore human nature, and examine concepts suggested by the texts in a variety of assessments. Reading and writing instruction involves processes designed to encourage depth of thinking, clear expression of ideas, and mastery of the conventions of the English language. College and career readiness are emphasized in all courses.

In this department courses primarily emphasize these capacities from our Vision of a Graduate:

Critical Thinking: Analyze and evaluate ideas, claims, evidence and/or representations to construct meaning.

Communication: Express ideas and share information to effectively engage an audience for a given purpose and task.

Collaboration: Work together to share and evaluate knowledge and ideas by asking questions, listening actively, and respecting and considering the opinions of others in order to achieve a common goal.

Self-Direction and Process Monitoring: Develop a plan of action including a timeline, identify skills and resources, and monitor the progress through feedback and reflection

Honors Requirements

Students in Grade 8 will be evaluated for Honors English by the following criteria: results of standardized tests, student achievement, and teacher recommendation. The sequence for the four-year honors track is suggested as follows:

- Freshman Honors Language Arts
- Sophomore Honors English OR Honors Humanities (English and Social Studies credit combined)
- Junior Honors English OR UCONN American Studies (English and Social Studies/American History credit combined) OR Advanced Placement (AP) Literature and Composition.
- Senior Honors English (UCONN Seminar in Academic Writing and Multimodal Composition) OR Advanced Placement (AP) Language and Composition

Alternative Courses

Alternative courses to the regular English class offerings are as follows:

- In the junior year, students may elect American Studies (see above)
- In the senior year, students who are teacher recommended, may elect Creative Writing
- 10th—12th grade students may take Creative Writing as an elective course

English Courses

Summer Reading

All students are expected to read over the summer and will receive instructions prior to the end of the school year. Additionally, the summer reading expectations for each grade will be available online.

Depending on the course, students will either provide evidence of their reading during the summer or upon return to school. Once again, please note that instructions will be available online.

GRADE 9

EN2001 Language Arts—Honors



9 1.0 CR

EN3001 Language Arts—College Prep

9 1.0 CR

The Freshman English Language Arts course focuses on foundational skills, emphasizing close reading and academic writing. Students concentrate on the analysis of both fiction and nonfiction texts in order to evaluate and apply evidence to a variety of writing styles. Additionally, ninth grade language arts classes target vocabulary, speaking and listening, collaboration, and independent exploration. Technology is infused and utilized in a variety of assignments and assessments ensuring that students have the means and opportunity to use technology as a tool for learning, communicating ideas, and advancing in the 21st century.

ND9103 Freshman Seminar



GR9 .50 CR

All grade 9 students take this course, which is based on models of college freshman seminars and aspects of positive youth development. Designed to make the transition into high school more manageable, the course helps students set goals, build community, and develop self awareness. It centers around five questions: Who am I in this class? Who am I at MHS? Who am I outside these walls (family, friends, community, etc)? Who am I in society (age, gender, race, etc)? And who will I be five or ten years from now?

GRADE 10

EN2002 Sophomore English—Honors (Designed to introduce pre-AP/UCONN ECE skills)



10 1.0 CR

EN3002 Sophomore English—College Prep

10 1.0 CR

Sophomore English is a World Literature course that builds upon the skills introduced in grade 9. The expectation is for students to improve upon their ability to dissect complex texts by participating in close readings and academic writing. The major resources are literary classics, young adult literature, and a comprehensive anthology. Vocabulary, speaking and listening, and conventions of the English Language are emphasized and strengthened. Technology is infused and utilized in a variety of assignments and assessments ensuring that students have the means and opportunity to use technology as a tool for learning, communicating ideas, and advancing in the 21st century.

EN2022 Humanities—Honors



10 1.0 CR (1.0 English/1.0 Soc. Studies CR)

Corequisite SS2022

This course examines modern World History through an interdisciplinary model. The course will be team taught by members of the Social Studies and English faculty. Students will focus on skill development and common core tasks as they examine the origins of the modern world through the past. The course will focus on cultural studies as well as the history and literature of a time period. Students will examine art, architecture, and music to fulfill the interdisciplinary mission of the course.

GRADE 11

EN1003 Advanced Placement—Literature and Composition



11 1.0 CR

This course engages students in careful reading and critical analysis of American and World classics/literature. Students develop skills in close reading of complex texts, analysis of rhetorical strategies and deeper understanding of the literary elements. Technology is infused and utilized in a variety of assessments ensuring better preparation for the 21st century. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

EN2043 UCONN Honors American Studies—Honors



11 1.0 CR (1.0 English/1.0 Soc. Studies CR)

Corequisite SS2013

American studies is a work intensive, interdisciplinary, team taught course. Students are expected to independently read college level fiction and nonfiction texts and write sophisticated thesis driven essays that synthesize their understanding of American history, literature, and culture. Students meet daily which fulfills the requirements for Junior English (1.00 credit) and U.S. History (1.00 credit). The course offers a variety of learning experiences, including a number of field trips designed to enhance the curriculum. Technology is infused and utilized in a variety of assessments ensuring students are kept abreast of technological opportunities which better prepares them in the 21st century. **Students may be eligible to receive UCONN credit for this course.**

EN2003 American Literature—Honors



11 1.0 CR

EN3003 American Literature--College Prep



11 1.0 CR

This course emphasizes skills and strategies for independent reading of, analyzing, and writing about works of American literature, with a focus on how that literature reflects social, political, and cultural issues in the United States. Instruction in each standards-based unit of study integrates reading, writing, speaking and listening, and language study. Students are provided with multiple opportunities to articulate their own ideas as well as to question, interpret, analyze, extend, and evaluate others' ideas. The goal of instruction is to support students in becoming independent, strategic, critical readers, writers, listeners, and speakers who communicate effectively in various forms, for genuine purposes, and to authentic audiences. This course is a survey of American Literature that stresses literary and cultural themes, including pieces from a variety of time periods and from a diversity of voices.

EN8033 Abnormal Psychology in American Literature—Multi-level



11 1.0 CR

EPJA juniors will have priority placement in this college prep English course that examines American literature through a psychological lens. Students will explore the roles of development, mental illness, stress, and addiction as they pertain to American authors, classic literary characters, and the collective American identity. This course will be team taught by members of the Social Studies and Language Arts faculty and will emphasize close, thoughtful reading, in-depth research, and careful expression in spoken and written communication.

GRADE 12

EN1004 Advanced Placement English—Language and Composition



12 1.0 CR

This course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Technology is infused and utilized in a variety of assessments ensuring students are prepared for further study and work in the 21st century. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.** (Note: This is a separate and distinct course and exam from AP English—Literature and Composition).

EN2004 UCONN English—Honors



12 1.0 CR

Students are introduced to different modes and approaches to composition and become aware of, and respond to, a variety of rhetorical situations. Students will compose through multiple forms of literacy, including rhetorical, digital, and information literacies necessary for twenty-first-century contexts. Students develop creatively intellectual inquiries through sustained engagement with texts, ideas, and problems. Revision, instruction in grammar, mechanics, and style are key components. Technology is infused and utilized in a variety of assignments. SAT Critical Reading Score of 450 or higher, or teacher recommendation. This course is equivalent to UCONN

ENGL1007 Seminar in Academic Writing and Multimodal Composition. **Students may be eligible to receive UCONN credit for this course.**

EN2024 CCSU Senior English – Honors



12. 1.0 CR

In this introduction to college writing course, students will engage with others' ideas and learn persuasive strategies for establishing their own perspective. Students will learn how academic essays are constructed and will practice the common "moves" writers make to be understood.

Writing 110 emphasizes critical thinking and inquiry, viewing writing as a reflective and social act. Students will practice locating, evaluating, and using evidence while adhering to academic conventions. The course offers substantial guided practice and discussion of writing as a process, helping students to develop their writing processes and adapt to different rhetorical situations. Students will also reflect on their own learning and writing process. *This course is equivalent to CCSU's WRT 110 Introduction to College Writing.* **Students may be eligible to receive CCSU credit for this course.**

EN3004 Senior English—College Prep



12 1.0 CR

The Senior English course is designed to ensure college and career readiness. Its focus is on rigorous college preparatory writing, as well as on developing competency in reading, understanding, and responding to college level texts. Required readings will be drawn from nonfiction, fiction and various multimedia sources. Students will continue to explore reading and writing as processes, with the goals of improving the effectiveness of oral and written communication as well as developing the ability to analyze texts and synthesize information. Technology is used in a variety of assessments, ensuring students are well-prepared for 21st century study and work.

EN9006 Creative Writing—Unleveled



10-12 1.0 CR

This course is designed for students who are serious about expressing their creativity in a variety of written modes. Students are exposed to poetry, script writing, short stories, and other genres. Through work-shopping and revision processes, the writer will develop an ear for dialogue, rhythm, fluency, diction, and tone. Publishing opportunities will be pursued through various venues. Technology is infused throughout the course, ensuring 21st century college and career preparedness. This course may be taken for English graduation credit in Grade 12 only with teacher recommendation.

EN8046 Contemporary Journalism —Multi-Level



10-12 1.0 CR

Students in Contemporary Journalism will be enrolled in a full year elective in addition to a regular English class. Students will be a part of the writing staff for the school's digital and print newspaper, The Nest, and are free to write about a wide array of personal, school, and community interest topics. The course also invites talented photographers who are interested in photojournalism to enroll. **This course may not be taken for English graduation credit and is not approved by the NCAA as a core English course.**

EN2014 CCSU Public Speaking - Honors



12 1.0 CR

This course offers an in-depth study and practice of key forms of public address, tailored to meet the needs and expectations of those preparing for business and professional careers. Students will explore both the theory and practical aspects of effective public speaking and listening. Emphasis will be placed on the benefits of strong communication skills, including personal, professional, and social advantages.

Active participation and engagement are essential components of this course. Students are expected to be well-prepared to deliver both formal and impromptu presentations. Additionally, they will take on the role of listeners and evaluators for their peers, fostering a collaborative and supportive learning environment. This course aims to build students' confidence and proficiency in public speaking, equipping them with vital skills for their future careers. This course is equivalent to CCSU's COMM 140 Public Speaking. **Students may be eligible to receive CCSU credit for this course.**

EN3024 Senior STEM English - College Prep

12 1.0 CR

This Senior English course bridges the worlds of language arts and STEM disciplines by emphasizing the critical connections of effective communication, self-discovery, and problem-solving essential for success in the manufacturing and trades industry. Students will have the opportunity to create cover letters, resumes, LinkedIn profiles, create technical manuals, and design and build a prototype. Through design thinking methodologies, students tackle real-world challenges, refining solutions through iterative feedback and reflection. By integrating effective communication, self-reflection, and design thinking, this course equips students with the interdisciplinary skills necessary to thrive in STEM fields, fostering a deeper understanding of identity, values, and the pivotal role of technology in shaping our lives and addressing global challenges.

ENGLISH LANGUAGE DEVELOPMENT

ELs are accurately placed in ESOL (English to Students of Other Languages) classes and provided academic supports based upon their level of English language proficiency as measured by the LAS Links test. This test assesses the academic and social language skills of ELs across each language domain—listening, speaking, reading, and writing. The main goal of the ESOL program is to provide equal educational opportunity for students of other languages so that they can acquire English proficiency and academic skills to successfully transition into the mainstream classrooms. The program meets the needs of these students as outlined in Title III of the Every Student Success Act (ESSA) under CSDE guidelines.

ES9125 ELD Beginning



.50 CR

ES9225 ELD Beginning

.50 CR

English Language Development

A beginning and early intermediate level course for the English Language Learners. Flexible grouping and differentiated instruction serve the needs of the different levels of the students. Focus is on reading, writing, listening, speaking, grammar and word work. Support also provided for grade level assessments and course work.

ES9135 ELD Intermediate



.50 CR

ES9235 ELD Intermediate

.50 CR

English Language Development

An intermediate level course for the English Language Learner. Flexible grouping and differentiated instruction serve the needs of the different levels of the students. Focus is on reading, writing, listening, speaking, grammar and word work. Support also provided for grade level assessments and course work, as well as applications for post-high school education and career paths.

ES9005 ESL Academic Reading & Writing



1 CR

An ESL course modeled after the highest level ESL course work at Manchester Community College. Students create portfolios with academic writing based on Academic reading essays of various genres. This course is for Juniors and Seniors who have scored at the Proficient level on the LAS LINKS Proficiency Test. The focus is on post-secondary level English reading and writing as well as getting support in the application process for post-secondary study.

INTERNSHIPS & COMMUNITY SERVICE (CREDIT BEARING)

We offer a variety of career exploration or project based learning opportunities that allow students to investigate careers that they are interested in learning more about. Work based learning, community service and other experiential learning opportunities are personalized, innovative, independent and connected to students' personal interests, passions and aspirations. Throughout the internship experience students will investigate whether this career path is a good fit and learn what it takes to succeed in this field. Students will work closely with a school based mentor in addition to professionals at the agreed upon internship site to prepare for the experience. Internships are usually paid and may take place in school or off campus, during or after school hours. Many of these programs have been created in collaboration with local businesses, colleges, universities and other community organizations. New opportunities may be designed specifically based on individual student interests and goals).

Internship/apprenticeship course codes are included within each department, and are also listed below:

Career Exploration Pathway	Department	Academy Connection(s)	Course Code	Examples
Construction - Architecture Internship 	Technology Education	STEM	TN9725	Various trades such as electrical, woodworking HVAC, fleet work, landscaping, architecture, CAD (Computer Aide Design), and more. New opportunities may be designed specifically based on individual student interests and goals). Possible internship sites include: Fuss and O'Neil, Manchester Department of Public Works or other local employers.
Arts, AV & Communications Internship 	Technology Education	STEM PAC	TC9725	Social media advertising/marketing, graphics companies, news media outlets, local theater groups, art galleries, publishers and more. New opportunities may be designed specifically based on individual student interests and goals. Possible internship sites include: Local news stations, marketing firms or departments within companies, Little Theater of Manchester, WORK_SPACE art galleries, publishers and other local employers.
Business, Marketing and Finance Internship 	Business	GSA All	BU9725	Banks, accounting firms, retail establishments and more. New opportunities may be designed specifically based on individual student interests and goals. Possible internship sites include: Northeast Family Federal Credit Union, Webster Bank, Chamber of Commerce, accounting firms, insurance agencies, realtors and other local employers.
Education and Training Internship 	Family Consumer Science	EPSA	FC9725	Local schools, day care centers, Manchester Early Learning Center and Mahoney Recreation Center. New opportunities may be designed specifically based on individual student interests and goals. Possible internship sites include: Schools in Manchester, Manchester Early Learning Center, KinderCare, Youth Service Bureau and other local employers.
Government, Law and Public Administration 	Business	EPSA GSA	BU9825	Town of Manchester, local politician's offices, law offices and more. New opportunities may be designed specifically based on individual student interests and goals.
Health Science/Medical Careers 	Science	MCA	SC9725	Medical offices, nursing homes, dentists, pharmacies, veterinarian clinics and more. New opportunities may be designed specifically based on individual student interests and goals.

				
Hospitality and Tourism Internship 	Family Consumer Science	GSA	FC9825	Restaurants, bakeries, caterers, hotels and more. New opportunities may be designed specifically based on individual student interests and goals.
Beauty, Health and Cosmetology Internship 	Family Consumer Science	PAC GSA	FC9925	Beauty salons, barber shops, hair and makeup specialty stores and more. New opportunities may be designed specifically based on individual student interests and goals.
Information Technology Internship 	Technology Education	STEM	TE9725	Manchester School IT internship program, Aresome Technologies and other local employers. New opportunities may be designed specifically based on individual student interests and goals.
Manufacturing 	Technology Education	STEM	TD 3316	Explore careers in manufacturing by signing up for the Manufacturing Pre-Apprenticeship Course. In this course, students will earn highly regarded industry recognized Tooling U and OSHA credentials and be placed at a local manufacturing site such as ACMT or New England Tools.
STEM Internship 	Science	STEM	SC9825	Local engineering firms, Fuss and O'Neal, environmental science, data science, LECTRA STEM internship and more. New opportunities may be designed specifically based on individual student interests and goals.
Automotive, Aviation, Transportation Internship 	Technology Education	STEM	TT9725	Various trades, fleet work, local parts shops, auto dealers and more. New opportunities may be designed specifically based on individual student interests and goals. Possible internship sites include: Manchester Department of Public Works, auto dealerships and other local employers.
Community Service Internship 	Business	ALL	BU9925	Earn credit by designing a community service project that you are passionate about that fits into your future plans. A few examples of community service internships include: Volunteering at a local food pantry, school, Manchester Youth Service Bureau and more!



Internships for students 16 or older at Manchester High School

Most internships are PAID at \$15.69 PER HOUR! Interns will:

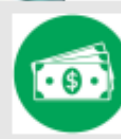
- earn at least a 1/2 ELECTIVE credit (MAY BE REPEATED)
- explore careers that align to personal values & goals
- create professional resumes, complete job applications and obtain working papers
- practice interviewing skills
- learn about workplace safety & employment rights
- work with teacher and employer mentors at employment site
- INTERNSHIPS LOOK GREAT ON RESUMES AND COLLEGE APPLICATIONS!



Education/Public Service

Academy Internship examples:

- Manchester elementary, middle school or high school placement
- Local day care center
- Law office
- Police Explorer Program
- Fire rescue/EMT shadowing
- Teen Cert Program
- Other placements based on student interest



Global Studies Academy

Internship examples:

- Local restaurants, hotels, bakeries and other culinary or hospitality industries
- Accounting firms, banks/credit Unions
- Real Estate or insurance agencies
- Translation services or Community service
- ANY local business, including hair/make up salons or other placements based on interest



Medical Careers Academy

Internship examples:

- Medical offices
- Pharmacies
- Dental offices
- Vet clinics/animal shelters
- Fire rescue/EMT shadowing
- Teen Cert Program
- Other placements based on student interest



Performing Arts Academy

Internship Examples:

- Local theater groups
- Hair and make-up experiences, local salons, barbers, etc.
- Broadcast, journalism, writing placements
- Other placements based on student interest



STEM Academy Internship

Examples:

- Local architecture/engineering firms
- Town TRADE program
- Manufacturing
- Science Project based internships such as LECTRA Women in STEM program
- Data analytics/statistician
- Other placements based on student interest

Interested? Please scan the QR code to express your interest in an internship!



CREDIT BEARING EXTRACURRICULAR OPPORTUNITIES

E9506 Sports Team Management



10-12 .25 CR

After school—Must have permission of the Athletics Director

This .25 credit course will occur after school during the teams practice and competition. Students will meet with the course instructor on a weekly basis to review the progress of the season, offer analysis and feedback of the experience. It is not recommended that athletes take this course during their season. This is like a “job shadow”. Students will assist coaches with a wide variety of responsibilities. This will vary by coach and sport. The student will gain an understanding of the other side of the sport. Management, organization planning, film, statistics, injuries, game day responsibilities, etc.

Peer Mediation 9311, 9321, 9431, 9441

10-12 .25 CR

Students who are interested in assisting peers with conflict resolution should consider participating in Peer Mediation. Peer Mediators are trained to work alongside MHS staff to ensure that students can find peaceful solutions for conflicts they are experiencing.

Student Ambassadors ND 9312, 9322, 9432, 9442

10-12 .25 CR

Students who are interested in contributing to the positive climate at MHS should consider Student Ambassadors. Student responsibilities will include; New student tours; Interpretation of new student schedules; Facilitation of ice breakers and “get to know you” games; and 8th grade parent nights and community outreach events.

FAMILY & CONSUMER SCIENCES

Empowering students with life skills to be successful in the future.

Careers ideas Family Consumer Sciences:

Caterer	Food Editor
Chef	Hospitality
Dietician	Family Counselor
Early Childhood Ed	Social Services
Fashion Designer	Teacher



Family and Consumer Sciences Touches Your Future Through the:

- Application of academic skills, critical thinking and communication skills.
- Exploration of career options.
- Development of consumer and career skills involving the creation of fashions.
- Prepares students in areas related to human development and family studies.

In this department courses primarily emphasize these capacities from our Vision of a Graduate:

Collaboration: Work together to share and evaluate knowledge and ideas by asking questions, listening actively, and respecting and considering the opinions of others in order to achieve a common goal.

Self Direction/Task Management: Develop strategies and plans to manage time, accomplish goals, and monitor progress through feedback and reflection.

Creativity: Explore idea(s) through a meaningful, intentional process that inspires the development of a product, performance, or solution.

Classroom And Extracurricular Experiences Include:

Clubs:

- Educator Rising (Future Educator)
- Sewing Club

School and Business Partnerships:

- Job Shadow at various Manchester elementary schools
- Mock Interviews
- Local food & beverage professional demonstrations
- MACC Charities
- Ethan Allen Design Challenge

School Based Enterprises:

- Silk City Cafe
- Seasonal food sales by Bake Shop I and II classes

The Family & Consumer Sciences Department offers the following courses:

Fashion and Design
Fashion and Design I
Fashion and Design II
Fashion III
Interior Design & Housing

Hospitality
Introduction to Culinary Arts
International Foods
Bake Shop I
Bake Shop II
Culinary Arts
Nutrition for Fitness
Silk City Internship

Human Development
Infant and Child Development
UConn Human Development & Family Studies
CCSU Early Childhood Education
CCSU Teaching in a Multicultural Society

Family & Consumer Science Courses

FASHION AND DESIGN

FC8135 Fashion and Design I—Multi-Level
1S/2S 9-12 .50 CR



Students will gain a basic knowledge of clothing and apparel design through the construction of multiple projects. Opportunities to learn about fibers and fabrics, care and repair of clothing, and use and care of equipment. Careers in clothing and textiles will be explored.

FC8245 Fashion and Design II—Multi-Level
1S/2S 9-12 .50 CR



Prerequisite: Fashion and Design I

The emphasis of this course is on increasing the student's knowledge of clothing construction and textiles. Students will follow a prescribed sequence of projects and learning experiences. Careers in the fashion industry will be explored.

FC8656 Fashion and Design III—Multi-Level
1S/2S 10-12 .50 CR



Prerequisite: Fashion and Design II

This course will allow students to explore more extensively the field of textiles and design. The sequence of projects and learning experiences will be tailored to meet student interests and career needs. This course may be repeated for credit.

FC8717 Interior Design and Housing—Multi-Level
1S/2S 9-12 .50 CR



Interior Design is an ever-changing field. Students will learn the elements and principles used in designing personal living environments. This course will cover topics such as housing styles, furnishings, and room arrangement. Take this opportunity to explore career possibilities in this occupation.

HOSPITALITY

FC8315 Introduction to Culinary Arts—Multi-Level
1S/2S 9-12 .50 CR



This course provides students a firm foundation in basic food preparation through creative cooking in a collaborative setting. Students will practice a variety of methods of preparation through multiple lab experiences.

FC8516 International Foods—Multi-Level
1S/2S 10-12 .50 CR



This course explores a variety of international cooking techniques and practices, emphasizing culture, customs, and nutrition within each unit. Cuisines may represent Latin, Asian, Caribbean, African and European cultures. The recipes will be based on student backgrounds and interests.

FC8136 Bake Shop I—Multi-Level
1S/2S 10-12 .50 CR



The Bake Shop gives students the opportunity to learn essential baking skills, the function of ingredients and baking techniques. Units will include quick breads, cakes, pies and cookies.

FC8247 Bake Shop II—Multi-Level



1S/2S 10-12 .50 CR

Sequential: Bake Shop I - C or better

This course allows students to apply advanced baking skills to produce restaurant quality products for our Silk City Cafe. Units include cake decorating, yeast breads, and pastries.

FC8017 Advanced Culinary Arts—Multi-Level



10-12 1.0 CR

Prerequisite: Intro to Culinary - C or better

This course introduces students to the restaurant industry by preparing lunch for faculty and staff in Silk City Cafe. Units may include soups, salads, sauces, stocks, poultry, beef, vegetables, and grains. All students will be prepared to earn highly valued ServSafe Manager certification.

FC8126 Nutrition for Fitness—Multi-Level



1S/2S 10-12 .50CR

This course will explore the six major categories of nutrients and their roles in the performance of a healthy teenager. The science of nutrition will be applied to the preparation of the foods and the development of healthy lifestyles and eating habits.

FC9107 Silk City Intern—Unleveled

1S/2S 11-12 .50 CR

Prerequisite: Intro to Culinary or Bake Shop course or Culinary teacher recommendation

Silk City interns are student leaders who participate in managing Silk City Café. Major responsibilities of the interns include food preparation, marketing, and sales. They manage the day-to-day operations including our POS system, inventory management, and development of new products. Students will develop career building skills by participating in community service and managing customer relations. This course may not be repeated without teacher/ department chair permission.

EDUCATION PUBLIC SERVICE ACADEMY

FC9516 Introduction to Education and Public Services Academy—Unleveled

Q1/Q2 10-12 .25 CR

This course is for students entering the Education/Public Services Academy. The focus of instruction will include student centered activities that examine careers in Education and Public Service. Students will be exposed to guest speakers from various occupations and engage in panel discussions with many professionals. Exploration will include issues, policies and trends in education and public service as well as topics of diversity and equity, law and ethics.

HUMAN DEVELOPMENT

FC8175—Infant and Child Development - Multi-Level



1S 9-12 .50 CR

Do you enjoy learning about children? This course provides an exploratory introduction to the study of parenting and families as well as pregnancy and birth. Infant simulator will be used for an authentic experience.

FC2127 CCSU Introduction to Early Childhood Education Studies (CCSU EDEC 101) —Honors



1S 11-12 .50 CR (GR10 EPSA can request)

Does your future include children? Do you see yourself as a preschool or elementary school teacher, social worker, or in another childcare-related occupation? At the end of the course, students should be able to identify developmentally appropriate practices in different types of programs that develop and promote the social, emotional, and mental development of infants, toddlers, and preschool children. This course includes visits to CCSU and possible internship/ community service learning components and is the equivalent of the CCSU course EDEC 101. **Students may be eligible to receive CCSU credit for this course.**

FC2007 UCONN Human Development & Family Sciences - Honors



12 1.0 CR

This course is designed as an introduction to the field of human development, social services and family studies. The course will provide students with an understanding of individual and family development over the lifespan. Job shadows will be key components of this course. Students must provide their own transportation. This course is the equivalent of UCONN HDFS 1070. **Students may be eligible to receive UCONN credit for this course.**

SS2137 CCSU Education In A Multicultural Society—Honors



1S/2S 10-12 .50 CR

Education In A Multicultural Society is an introductory course focused on the evolving purposes and roles of education and teachers in American society, issues of diversity and equity in education, and the societal and cultural factors, key policies, and court cases that have shaped education in the U.S. EPSA students have priority in enrollment. **Students may be eligible to receive CCSU credit for this course.**

FAMILY CONSUMER SCIENCE INTERNSHIPS

Explore careers in hospitality, culinary or education by signing up for a FCS career exploration internship! Throughout this experience, you'll investigate whether a career path is a good fit for you and learn what it takes to succeed in a chosen field of interest. You will work closely with a school based mentor in addition to professionals at the agreed upon internship site to prepare for the experience. Internships are usually paid and may take place in school or off campus, during or after school hours. This course may be repeated for credit. FCS internships include:

- **FCS FC9725 EDUCATION AND TRAINING Internship:** A few examples of education and training internships include: Possible internship sites include: Schools in Manchester, Manchester Early Learning Center, KinderCare, Youth Service Bureau and other local employers. New opportunities may be designed specifically based on individual student interests and goals.
- **FCS FC9825 CULINARY, HOSPITALITY AND TOURISM Internship:** Possible internship sites include: restaurants, hotels, caterers, bakeries and other local employers. New opportunities may be designed specifically based on individual student interests and goals.
- **FCS FC9925 Beauty, Health and Cosmetology Internship:** Possible internship sites include: Local salons, barbers, Manchester Youth Service Bureau, hair and make up suppliers and other local employers. New opportunities may be designed specifically based on individual student interests and goals.

Mathematics

Goals and Vision of the Graduate:

It is our goal in the math department to educate students so that they are able to:

- Understand and apply mathematical concepts
- Develop logical thinking and organizational skills
- Apply strategies to investigate, evaluate, and solve a variety of problems
- Formulate definitions and express generalizations discovered through inquiry
- Use and value the connections between mathematics and other disciplines
- Build mathematical literacy to become educated consumers and prepare for future math studies
- Develop a foundation for postgraduate study in related fields
- Use appropriate tools of inquiry including graphing calculators and computer programs

In this department courses primarily emphasize these capacities from our Vision of a Graduate:

Problem Solving: Define problems and work through processes to determine solutions, draw conclusions, evaluate the reasonableness of solutions, and/or have a better understanding of problems.

Critical Thinking: Analyze and evaluate ideas, claims, and/or representations to construct meaning

MHS math students have demonstrated excellence by achieving recognition and/or awards for:

- SAT Performance
- AP Calculus Performance
- National Merit Scholar
- Math Team Competition
- UCONN Mathematics and Statistics credit

Math department curriculum aligns with Common Core State Standards and Mathematical Practices:

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make sense of structure
- Look for and express regularity in repeated reasoning

The Mathematics Department offers the following courses:

Algebra 1
Algebra 2
Geometry
Statistics and Probability
Problem Solving Strategies in Mathematics

Consumer Math Applications
SAT Preparation
Introduction to Data Science
Pre-Calculus
Finite Mathematics

UCONN Discrete Mathematics
Elementary Concepts of Statistics
AP. Pre-Calculus
A.P. Calculus AB
A.P. Calculus BC
A.P. Statistics

Career ideas in Math:

Accountant

Actuary

Architect

Audiologist

Bookkeeper

Business Administrator

Engineer

Industrial Designer

Mathematician

Physicist

Statistician

Surveyor



Mathematics Courses

Successful completion of Algebra I and Geometry in middle school may be noted on the student's official MHS transcript.

ALGEBRA 1

The Common Core Algebra 1 curriculum connects students' prior knowledge of numerical operations, algebraic reasoning and working with data to the investigation and application of linear and nonlinear functions. The curriculum focuses on strengthening students' ability to model and interpret situations and develop mathematical solutions to problems as they apply the Common Core Mathematical Practices.

MA2001 Algebra 1—Honors



9 1.0 CR

Students who are recommended for this course demonstrate high academic achievement, mental maturity, abstract reasoning ability and independent motivation.

MA3001 Algebra 1—College Prep



9 1.0 CR

Students who are recommended for this course have achieved success through grade 8 and pre-algebra courses and are now prepared to study the high school curriculum.

MA4032 Algebra 1—Post Secondary Prep



9 1.0 CR

This course is designed for grade 9 students who have had difficulty mastering middle school mathematics as they now begin to study high school curriculum.

STATISTICS and PROBABILITY / GEOMETRY

Semester 1 Statistics and Probability curriculum is designed to demonstrate the applications of mathematics in modern life through an introduction to statistics. With the aid of technology, students will study topics including random sampling, design of surveys and experiments, information from samples, confidence intervals, elementary probability, examining numbers and data critically, graphing and data analysis, written discussion of numerical analysis, and simulations.

Semester 2 Geometry curriculum connects students' prior knowledge of algebraic reasoning, function analysis and working with data to the investigation and application of geometric relationships and formulas. The curriculum focuses on the study of coordinate geometry, congruence and similarity relationships, and connections from algebra and functions. It also strengthens students' ability to model and interpret situations, and use deductive reasoning to develop mathematical solutions to problems as they apply the Common Core Mathematical Practices.

MM2115 Statistics and Probability - Honors



1S 9-11 0.5 CR

Prerequisite: Algebra 1

Students who are recommended for this course demonstrate high academic achievement, mental maturity, abstract reasoning ability and independent motivation.

MM3115 Statistics and Probability - College Prep



1S 9-11 0.5 CR

Prerequisite: Algebra 1

MM4115 Statistics and Probability - Post Secondary Prep



1S 9-11 0.5 CR

Prerequisite: Algebra 1

MG2115 Geometry—Honors



2S 9-10 0.5 CR

Sequential: Algebra 1 Honors or recommendation

Students who are recommended for this course must demonstrate high academic achievement, mental maturity, abstract reasoning ability and independent motivation.

MG3115 Geometry—College Prep



2S 9-10 0.5 CR

Sequential: Algebra 1 CP or recommendation

MG4115 Geometry—Post Secondary Prep



2S 10 0.5 CR

Sequential: Algebra 1

ALGEBRA 2

The Common Core Algebra 2 curriculum connects students' prior knowledge of function analysis, geometric reasoning and working with data to the investigation and application of more complex algebraic and trigonometric functions. The curriculum focuses on strengthening students' ability to model and interpret complex situations and develop and defend mathematical solutions to problems as they apply the Common Core Mathematical Practices.

MA2026 Algebra 2—Honors



9-11 1.0 CR

Sequential: Algebra 1 Honors or teacher recommendation

Students who are recommended for this course demonstrate high academic achievement, mental maturity, abstract reasoning ability and independent motivation.

MA3026 Algebra 2—College Prep



10-12 1.0 CR

Sequential: Algebra 1 College Prep or teacher recommendation

MA4026 Algebra 2—Post Secondary Prep



10-12 1.0 CR

Prerequisite: Algebra 1

PRE-CALCULUS

MC1007 A.P. Pre-Calculus



10 -12 1.0 CR

Prerequisite: Geometry Sequential: Algebra 2 Honors

This course allows students to study important concepts - polynomial, exponential, logarithmic and trigonometric functions, along with additional Pre-Calculus topics. They will discover how these functions may be used to model theoretical and practical problems numerically, algebraically, and graphically. Emphasis is placed on function theory and application to provide the foundation for the study of Calculus and college level mathematics. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

MC3007 Pre-Calculus—College Prep



10 - 12 1.0 CR

Prerequisite: Geometry Sequential: Algebra 2 CP

This course provides a solid preparation for students who may wish to continue the study of mathematics. The major emphasis is the integration of Algebra and Analytic Geometry with other topics in mathematics by an approach that stresses multiple representations of functions. Special attention is given to the study of Trigonometry.

ELEMENTARY CONCEPTS OF STATISTICS

MM1007 A.P. Statistics



12 1.0 CR

Prerequisite: Pre-Calculus (Or permission from department leader)

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

MM2214 Elementary Concepts of Statistics—Honors



1S/2S 12 .50 CR

Sequential: Pre-Calculus (Or permission from department leader)

This course is a study of standard and nonparametric approaches to statistical analysis, exploratory data analysis, elementary probability, sampling distributions, estimation and hypothesis testing, one-and two-sample procedures, regression and correlation.

MM3107 Statistics—College Prep



12 .50 CR

Prerequisite: Geometry and Algebra 2 CP (Or permission from department leader)

This elective course is designed for students who wish to continue their study of mathematics through an introduction to statistics and data analysis. The course is a study of standard approaches to statistical analysis, exploratory data analysis, elementary probability and sampling distributions.

CALCULUS

MC1004 AP Calculus AB—AP Level



11-12 1.0 CR

Sequential: PreCalculus Honors

This course includes limits, derivatives, anti-derivatives, indefinite and definite integrals of algebraic, trigonometric, logarithmic and exponential functions. Emphasis is placed on modeling through multiple representations of functions (numerically, algebraically, and graphically). Applications in the science, business and engineering fields are included. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

MC2077 Honors Calculus—Honors



11-12 1.0 CR

Sequential: Pre-Calculus – College Prep

This course is designed to provide highly motivated students the opportunity to study Calculus topics as a preparation for their college career. Topics include limits, derivatives, anti-derivatives, and indefinite and definite integrals. A study of transcendental functions is also included. Emphasis will be placed on application of Calculus topics and integration of graphing calculators to solve problems.

MC1014 A.P. Calculus BC—AP



12 1.0 CR

Sequential: AP Calculus AB

This course is an extension of the Calculus AB curriculum with enhancement of prior topics included. Topics include derivatives and integrals of parametric and polar functions with applications, advanced techniques of anti-differentiation, improper intervals, and exploration and analysis of infinite sequences and series. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

ELECTIVE COURSES (Grade 11 or 12 students)

MM2117 UCONN Discrete Mathematics—Honors



1S/2S 12 .50 CR

Sequential: Geometry and Algebra 2 College Prep

Under the University of Connecticut Cooperative Plan, three college credits may be earned for satisfactory completion of this course. This is a practical mathematics course for the college bound student. It includes a study of problem solving, simultaneous linear equations, counting and probability, graph theory, deductive reasoning, the axiomatic method and finite geometries and number

systems. There are applications to business and economics. This course is equivalent to Math 1030Q at UCONN. **Students may be eligible to receive UCONN credit for this course.**

MM3314 Finite-Math A—College Prep



11-12 .50 CR (Semester 1 only)

Prerequisite: Geometry and Algebra 2

This course is designed for the junior or senior student who wants to continue their study of math and intends to major in a non-scientific area such as business or liberal arts. Applications are stressed and techniques of problem solving are explored in the areas of systems of equations, matrix operations and other advanced algebra topics. Students who have successfully completed a precalculus are not eligible for this course.

MM3314 Finite-Math B—College Prep



11-12 .50 CR (Semester 2 only)

Prerequisite: Geometry and Algebra 2

This course is designed for the junior or senior student who wants to continue their study of math and intends to major in a non-scientific area such as business or liberal arts. Applications are stressed and techniques of problem solving are explored in the areas of sets and counting, number theory, and probability. **Students who have successfully completed a pre-calculus course may not earn credit for this course.**

MM4307 Introduction to Data Science—Post Secondary Prep (Formerly Math Modeling)



1S/2S 11-12 .50 CR

Prerequisite: Geometry or Statistics and Probability

This course is designed to develop students' curiosity through noticing and wondering about data rich situations or given data sets. Students will select and design appropriate studies given the question(s) and context. They will develop an understanding of the notion of a statistical model, consider linear, exponential, or power functions as models and use them to answer the statistical investigative question(s).

MM9103 SAT Preparation—Unleveled



1S/2S 11-12 .50 CR

This course is designed to help prepare students for the SAT administration for mathematics. Learning is personalized through diagnostic assessments and student motivation. The use of technology helps to individualize student needs, along with teacher analysis of concentrated areas.

MA4137 Problem Solving Strategies in Math—Post Secondary Prep



1S/2S 11-12 .50 CR

Prerequisite: Geometry or Statistics and Probability

This course is designed to develop and improve the use of problem solving strategies for school and the world of work. Students will work cooperatively in groups and develop communication and problem solving skills as they apply the Common Core Mathematical Practices and the SAT administration. They will learn to select appropriate strategies for a wide variety of math problems and improve test-taking skills including those needed for SATs.

MM4127 Consumer Math Applications—Post Secondary Prep



1S/2S 11-12 .50 CR

Prerequisite: Algebra 1 or department leader permission

This elective is designed to develop mathematical skills and concepts as they apply to employment, recreation, and other adult consumer aspects. Problem solving and critical thinking skills will be a focus for project based learning. **Students who have successfully completed Algebra 2 may not enroll in this course.**

MM4107 Senior Statistics and Probability—Post Secondary Prep



1S/2S 12 .50 CR

This course is designed to demonstrate the applications of mathematics in modern life through an introduction to statistics. With the aid of technology, students will study topics including random sampling, design of surveys and experiments, information from samples, confidence intervals, elementary probability, examining numbers and data critically, graphing and data analysis, written discussion of numerical analysis, and simulations. **Students who have successfully completed Algebra 2 may not enroll in this course.**

PERFORMING ARTS

The primary goal of the MHS Performing Arts Department is to offer all students the opportunity to explore and express their creativity and artistic development. Skill development rooted in a strong emphasis on the basics is at the heart of the Performing Arts program. Students may choose to participate in performing ensemble classes or classroom studies. There is an honors credit option available to all students participating in a performing ensemble.

Career ideas in Performing Arts:



Actor
Arts Administrator
Broadcasting
Cinematographer

Dancer
Screenwriter
Stage Manager
Theater Director

Vocal Performing Ensemble

Chorus

String Instrument Performing Ensembles

Orchestra

Guitar Ensemble

Band Instrument Performing Ensembles

Concert Band, Jazz Ensemble, Percussion Ensembles

Classroom Subjects

AP Music Theory

Theatrical Design

Guitar I, Guitar II

Songwriting

Piano I & II

Music Production & Business

Popular Music and Diversity in Society

Performing Arts Clubs (co-curricular) include:

Chamber Orchestra (by audition), Handbell Choir, Jazz Choir, Marching Band, MHS Spring Musical, Roundtable Singers (by audition), Sock-'n-Buskin drama club, Santa Band, String Quartets, Cello Ensemble, Modern Band

Students enrolling in a performing ensemble class must accept the obligation to participate in all scheduled performances and rehearsals, many of which may occur outside the regular school day. All members of performing groups participate in regular evaluation and assessment ranging from weekly lessons to individual skill reviews. These assessments account for a percentage of the student's classroom grade. Enrichment activities for all members of MHS performing ensembles are encouraged. Among these suggested activities are: private music instruction, auditions for CMEA Regional and All-State Music Festival, Manchester Symphony Orchestra participation, and other local musical activities.

Benefits Of The Performing Arts Experience:

- It is fun.
- Research shows a strong connection between sustained arts involvement and academic achievement.
- Develops creativity and critical thinking skills.
- Enhances cultural development.
- Ensemble experiences promote collaborative learning and problem solving.
- Lifetime skills.
- Appreciation of the role of the arts in society.
- Develop leadership skills applicable to many areas of life.

Higher Education And Performing Arts:

- Colleges seek students with sustained involvement in the arts.
- Colleges seek creative and original thinkers.
- Career opportunities in performing arts, arts management, recording industry, retail, and many other arts related fields.

Performing Arts At MHS:

Manchester High School students have received recognition for excellence and have been involved with the community in the following ways:

- School concerts
- Major community events: Memorial Day Parade, Board of Directors Swearing in, Martin Luther King Day, Holiday on Main, events at the Manchester Senior Center
- Local trips: concerts in local schools, UCONN, statewide festivals and competitions
- Regional and National Trips have included: Florida, New York, Boston, The Big “E”, Virginia Beach, Washington, DC
- Guest Artists who have performed at MHS: The United States Marine Band, The US Navy Sea Chanters Chorus, The US Air Force “Airmen of Note” Jazz Ensemble, Maynard Ferguson, Louie Bellson, Boston Brass, The Buddy Rich Alumni Band with Dave Weckl, Steve Smith and Jon Pattitucci, The United States Navy Concert Band, The U.S. Navy “Commodores” Jazz Ensemble, Doc Severinsen, Barrage, The United States Coast Guard Band.

Extra Opportunities Suggested For Advancing Musicians:

CMEA All-State and Regional music festivals and the All-New England Music Festival. Private music instruction, Honors level ensemble credit, and Tri-M Music Honor Society.

Performing Arts Courses

ND9116 Cosmetology 101- Unleveled



.5 credits

Cosmetology 101 is an unleveled inquiry based course that is intended to provide a general overview of the basic crafts which include but are not limited to hair, make-up and nails. It is similar to the Hair & Make-Up for the Stage course in the sense that we will learn and experiment with working with hair and make up designs through a great deal of hands-on learning. The difference is we focus on contemporary and culturally relevant styles and techniques that are currently trending. Students will learn about various career opportunities in the field, as well as how to critique society's perceptions of beauty, and so much more. Students will be required to apply their existing and new knowledge to complete a multitude of projects that will be organized into a professional portfolio.

PA3006 Chorus—College Prep



9-12 1.0 CR

Chorus is a performing ensemble designed to develop the vocal, choral, and overall musical experience of its members. It is a 4-part vocal ensemble open to all students in grades 9-12. Members are evaluated on basic music reading skills, as well as performance practices. The group performs a wide variety of musical styles, ranging from the 1600's up to today. Students may apply to receive honors level credit for this course. In addition to the regular curriculum, students fulfill a set of honors requirements each marking quarter. This option is available by arrangement with the instructor.

PA3031 Concert Band—College Prep



9-10 1.0 CR

Concert Band is an instrumental performing ensemble that includes all wind instruments. Individual skill development is a high priority. Emphasis is also placed on the study and mastery of the fundamentals of music using a variety of band literature. All Concert Band members are required to perform in scheduled school and community concerts. Members of the Concert Band will be required to attend 3-4 scheduled after-school dress rehearsals prior to each concert. Students also have the option of applying for honors credit in band through an arrangement with the instructor.

PA3036 Concert Band—College Prep

11-12 1.0 CR

Concert Band is an instrumental performing ensemble that includes all wind instruments. Individual skill development is a high priority. Emphasis is also placed on the study and mastery of the fundamentals of music using a variety of band literature. All Concert Band members are required to perform in scheduled school and community concerts. Members of the Concert Band will be required to attend 3-4 scheduled after-school dress rehearsals prior to each concert. Students also have the option of applying for honors credit in band through an arrangement with the instructor.

PA3025 Jazz Ensemble—College Prep

9-12 1.0 CR

Corequisite of Concert Band or permission of instructor. Must be currently enrolled in Concert Band

Jazz Ensemble is a “by audition” performance organization which includes saxophones, trombones, trumpets, and rhythm section. The focus of Jazz Ensemble is the study of music fundamentals, improvisation, and the performance of standard jazz literature. Auditions are held in the spring. Membership in a concert band class is required for all wind players. Rhythm section members must be enrolled in either Percussion Ensemble or another large ensemble Performing Arts Department class. Students may apply to receive honors level credit for this course. In addition to the regular curriculum, students will fulfill a set of honors requirements each marking quarter. This option is available by arrangement with the instructor.

PA3011 Orchestra 9—College Prep

9 1.0 CR

PA3027 Orchestra 10 —College Prep

10 1.0 CR

PA3026 Orchestra 11-12—College Prep

11-12 1.0 CR

Orchestra is an instrumental performance ensemble open to all students who play the violin, viola, cello or double bass. The emphasis is on individual skill development and continued mastery of music fundamentals and advancing string technique. The importance of collaborative music making is also a key element of the course. Students will study a variety of pieces from the standard orchestral repertoire, with required, graded performances scheduled throughout the year. Members are required to attend 3-4 after school dress rehearsals during the school year in preparation for performances. Students are assigned to orchestra by grade level, and may elect to receive honors credit at any grade level. Honors level students will fulfill an additional set of requirements each semester. This option is available by arrangement with the instructor at the beginning of the year.

PA1205 AP Music Theory—Advanced Placement

11-12 1 CR

AP Music Theory is a course designed for the advanced music student. Course work will include music composition, orchestration, musical styles (including non-western and ethnic forms), and advanced ear training. Students will also do extensive work with synthesizers, sequencers and computer-assisted composition. This course is recommended for students wishing to continue musical study beyond high school. Students taking this course need to have music reading skills and prior music experience. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.** Course is offered in alternate years.

PA9405 Guitar 1—Unleveled

1S/2S 9-12 .50 CR

Guitar 1 is a one semester course for students in grades 9-12 who are interested in the study of the guitar in a classroom setting. No prior experience is necessary. This course covers basic guitar skills which will include music reading, playing techniques, open position melody and chord forms, blues song form and improvisation, basic music theory, a survey of guitar styles and equipment. Method books and acoustic guitars are provided for use in class. Students may bring their own guitar to class.

PA9435 Guitar 2—Unleveled

1S/2S 9-12 .50 CR

Sequential: C or better in Guitar 1

Guitar 2 is a one semester course for students in grades 10-12 (9 in Semester 2) who have successfully completed Guitar 1 and are interested in further study of guitar in a classroom setting. Basic music reading skills are required. This course continues the skill set achieved in Guitar 1. Topics include music reading, playing techniques, melody and movable chord forms, Blues and Rock repertoire, song form and improvisation, music theory, and a survey of guitar styles and equipment. Method books and acoustic guitars are provided for use in class. Students may bring their own guitar to class. This course may be repeated for credit with permission of the instructor.

PA3095 Guitar Ensemble—College Prep **10-12 1.0 CR**

Sequential: Guitar 2 or permission of instructor

Guitar Ensemble is a full year course for students in grades 10 - 12 who have successfully completed the Guitar 2 curriculum. Music reading skill is required. Topics include reading in positions with movable scale patterns; movable chord forms; Blues, Rock, Classical and Jazz guitar repertoire and improvisation, guitar equipment, collegiate music preparation and music careers. This ensemble will have the opportunity to perform in the school concerts. Method books and acoustic guitars are provided for use in class. Students may bring their own guitar to class. Students should have a guitar at home for practice. This course may be repeated for credit with permission of the instructor.

PA9156 Music Production and Business-Unleveled **1S/2S 10-12 .50 CR**

Music production and business will teach the basics of producing original compositions using Digital Audio Workspaces (DAW). Students will learn to record and mix original vocals and instruments with modern recording techniques. In addition, students will utilize marketing techniques with an understanding of music industry standards and best practices to release, distribute, and promote their original music. As a focus, students will establish a brand that makes use of their artistic identity through the creation of a press kit, artist biography for streaming services, and related marketing materials.

PA3015 Percussion Ensemble—College Prep **9-12 1.0 CR**

Sequential: Participation in a school music ensemble

Designed specifically for the continuing percussionist, this course combines the fun of playing percussion instruments with the development of solid technical and musical skills to prepare beginning percussionists for a role in the MHS Band program. Proper playing technique, music literacy, and basic percussion skills will be the focus. Preparing to perform at school concerts and other events is one of the class goals. Students who enroll in this course must have experience performing with a school music ensemble or have the permission of the instructor.

PA3005 Advanced Percussion Ensemble—College Prep **10-12 1.0 CR**

Prerequisite: Percussion Ensemble or Permission of Instructor

This course is by audition only and is a percussionist's dream! It has been designed to focus entirely on the skill development and issues related to performing on percussion instruments. Concepts covered range from the study of solid technical fundamentals to advanced techniques on mallet and auxiliary percussion instruments. Class time will be apportioned to include both full class and small ensemble activities. Members of the percussion ensemble class have the added bonus of performing as a group and as members of the Concert Band. Students will be expected to attend 3-4 after school dress rehearsals prior to every concert. Students may apply to receive honors level credit for this course. In addition to the regular curriculum, students will fulfill a set of honors requirements each marking quarter. This option is available by arrangement with the instructor.

PA2117 Popular Music and Diversity in American Society" (formerly Music Appreciation)—Honors **1S 9-12 .50 CR**

This course is designed for the musician and the non musician alike. Through listening and class discussion, we will explore music's role in society, its place in world cultures, and its relevance in our lives today. The course will also include hands-on participation of different musical styles, group projects, and individual presentations. Musical styles ranging from medieval, contemporary, American idioms, and Non Western music will form the basis for our study.

PA9125 Theatrical Design—Unleveled**1S/2S 9-12 .50****9-12 .50 CR**

Theatrical Design is a project-oriented survey course in theatrical design. Students will study four plays in depth and complete design projects in costuming, set design, lighting and directional blocking.

PA9146 Musical Theater—Unleveled**10-12 .50 CR**

Musical Theater is an unleveled course which may be repeated, providing students an insightful exploration and execution of vocal musical theater techniques, strategies and collaboration. Students will work to prepare solo, small group, and large group performances for in class performances as well as showcase performances within the Performing Arts and Communication Academy. Students will critically research the scenes and shows they are performing from in order to authentically communicate their creative character choices. Outside performances will be a part of this class at the end of the second and fourth quarters as part of the midterm and final examinations.

PA2105 CCSU Acting—Honors**1S/2S 10-12 .50CR**

This repeatable, semester long class is differentiated to suit individual acting needs and skill levels. Members will learn fundamentals and practice techniques in stage presence and movement, improvisation, scene study, and character analysis. Students will study great active performances as well as perform monologues and short scenes. Enrolled students might have the option to earn 3 semester credit hours from Central Connecticut State University for successful completion of course. **Students may be eligible to receive CCSU credit for this course.**

PA9416 Costuming—Unleveled**1S/2S 10-12 .50CR**

Prerequisite: Fashion and Design I & II

Interested in fashion design? Students will design and create a costume project that represents a character or historical time period. This course provides students with opportunities to assist the performing arts department in costume selection and costume maintenance for the fall or spring musical. To provide hands on experiential learning, students will have the opportunity to attend one production as a costuming assistant.

PA2106 CCSU Hair and Makeup for the Stage—Honors**1S/2S 10-12 .50 CR**

This semester-long course explores makeup technique and the hairstyles of different historical eras. Students will get hands-on practice with styling hair and applying stage and special effects makeup for stage and film. **Students may be eligible to receive CCSU credit for this course.**

PA9305 Piano I—Unleveled**1S/2S 9-12 .50 CR**

Piano I is geared towards the beginning pianist, players of other instruments, and singers. Students will learn the fundamentals of note and rhythm reading, and develop the coordination of the right and left hand to play increasingly complex music with both hands at the same time. The study of basic chords also forms a part of the course, along with online music theory exercises. The class is self paced but the expectation is that students will learn two short songs per week. Self direction and process monitoring, along with the ability to persevere and problem solve, are important attributes in learning music, and will be reinforced by the instructor daily.

PA 9325 Piano II—Unleveled**1S/2S 10-12 .50 CR**

Prerequisite: Piano 1

This course builds upon the skills learned in Piano I and explores topics such as playing by ear, transposition, technical exercises and continued study of basic music theory.

PA9136 Songwriting—Unleveled ***1S/2S 10-12 .50 CR**

This repeatable, semester-long course is designed to develop the fundamentals of music and lyric composition. Students are required to perform basic chord changes, use standard musical notation, write appropriate lyrics in several styles, and utilize technology in their compositions. Students will study musical form and create both original and arranged compositions.

PA9235 Dance Ensemble—Unleveled *



10-12 1.0 CR

This course is designed for those who have some dance experience. Ensemble instructors will choose the style focus for each quarter (it is okay if you do not have experience in that particular style). Students will need appropriate dance clothes and/or shoes for the style being studied.

PA9716 Performing Arts & Communications Academy Seminar —Unleveled



1Q/2Q/3Q/4Q 10-12 .25 CR

This is a recommended course for all PAC students that may be taken during sophomore or junior year. Teachers will work closely with the students to identify and pursue personalized explorations and career pathways (performing arts and communications or otherwise) that meet the students' needs and interests. This may include experiential learning or in-depth research designed to prepare students for an independent capstone project.

PA4115 Unified Music

Q1/Q2/Q3/Q4 9-12 .25 CR

This course is designed to unite regular education students with classmates with disabilities together through song and dance. The unified music program pairs students together to sing, play instruments, and dance. The course may be repeated for credit.

****Enrollment preference will be given to students in the Performing Arts Academy.***

Performing Arts Co-Curricular Clubs

Chamber Orchestra

The MHS Chamber Orchestra is an advanced string ensemble open to any student registered for an orchestra class. Members are selected through an audition process at the beginning of the school year. The Chamber Orchestra rehearses one evening a week, along with weekly, student-led sectionals. The Chamber Orchestra performs several times throughout the year at school and community events, and is one of the most prestigious music ensembles at MHS. This group travels overnight periodically with other advanced MHS music groups. This often requires participation in both group and individual fundraising activities.

Roundtable Singers

Roundtable Singers is a select group of singers with advanced vocal and music reading skills. Membership is dependent upon audition, and it is considered a year-long commitment. Auditions are held in June for the following year, with supplemental auditions in the fall. Auditions for Roundtable Singers will be given to current members of Chorus and Chorale. Members who are not enrolled in Chorus or Chorale will be expected to participate as members in those organizations during concerts. Roundtable Singers are expected to participate in several performances outside of high school concerts. Roundtable Singers rehearse for 1 1/2 - 2 hours each week - rehearsal times are after school. In addition to regular rehearsal times, a weekly sectional rehearsal is required. Members should expect to participate in all performances, including overnight trips. This often requires participation in both group and individual fundraising activities.

Jazz Choir

Jazz Choir is a small ensemble of 12-16 students who are interested in singing Jazz and Popular styles of music. Auditions for this group are held in September. The group meets once each week after school. The Jazz Choir travels with the Roundtable Singers and participates in competitions and festivals. Members should expect to participate in all performances, including overnight trips. This often requires participation in both group and individual fundraising activities.

Handbell Choir

A Handbell Choir is made up of several performers playing 80 bronze bells. The ensemble meets once a week after school. An understanding of rhythm is necessary, but no other musical experience is required. The group performs in two high school concerts and also travels to a day-long festival in the area each year. During the holiday season, the Handbell Choir is often invited to perform in the

community. The handbell choir also travels with the Roundtable Singers for their Spring tour. This requires participation in both group and individual fundraising activities.

Marching Band

Marching Band is great fun! The Manchester High School Marching Band is one of the school's most active musical organizations. Students learn to combine the skills of music performance and movement to produce the band's annual halftime show. The Marching Band begins the school year with a one week 'pre-season' program held prior to the first day of school. This 'pre-season' band program is essential to the success of the organization. It is also cited by parents and students as an important transition period from 8th grade into MHS.

A typical Marching Band season lasts through the Thanksgiving football game and includes performances at home football games, out-of-town band festivals, the "Big E" parade, and community service events.

During the course of the season, the marching band has full group rehearsals every Monday, Wednesday, and Friday afternoons until 5:00 p.m. The Colorguard and Percussion sections have an additional, separate weekly rehearsal.

This activity is designed for every band member (both wind and percussion instruments) and any student who wishes to perform in the Colorguard. Students in grades 9—12 (and selected 8th grade students) have the option to join the Marching Band.

Sock-'n-Buskin (drama club)

Sock-'n-Buskin, the MHS Drama Club, is open to all students of MHS with an interest in theater. SnB produces two live full-length theatrical performances each school year, as well as participates in the Homecoming Parade. They also present one to two smaller productions each year. SnB often plans a trip to New York City for a Broadway show.

Spring Musical Production

The Spring Musical Production is a "Broadway style" production of a popular piece of American Musical Theatre. Auditions for the production are in December. Music and staging rehearsals begin after the December holiday break. Rehearsals are generally Monday - Friday from 3:15 - 5:30 with some evenings included as scheduled. In early March, the rehearsal schedule becomes more involved, culminating in three performances in Mid-March.

Santa Band

The Santa Band is a community service ensemble that prepares holiday music for a variety of events in our Manchester community. This ensemble rehearses once per week from November through December.

String Quartets

String quartets are comprised of students from the Chamber Orchestra who seek an even more advanced and independent musical experience. These small, student-directed ensembles perform frequently at community and school events.

Modern Band

Modern Band is a contemporary band program sweeping the nation where students can play guitar, piano, drums, bass and other instruments in a variety of styles and genres. Students will learn how to be part of a "rock" band, which includes everything from learning their instrument, communicating with bandmates, learning how to set up amps. P.A. systems, microphones and everything else in order to perform in a concert setting.

Jazz Combo

The Jazz Combo is an advanced ensemble focusing on small group jazz and advanced improvisation skills. The Jazz Combo consists of a jazz rhythm section (piano, bass, guitar, and drums) plus wind and mallet players. This ensemble meets once a week after school after the Marching Band season concludes.

Cello Ensemble

The MHS Cello Ensemble meets once a week after school, and other times as necessary. The focus is on building cello-specific technical and artistic skills, and exploring the vast and eclectic body of literature written for cello ensemble. The group draws its membership from current and past MHS students, other local high school cellists, and cellists from the Manchester Symphony Orchestra. The group performs at school and community events, as well as giving an annual summer concert at The Rotary Music Pavilion at Charter Oak Park.

PHYSICAL EDUCATION & HEALTH

Departmental Goals:

- Exposure to a variety of individual and team sports
- Understanding the positive benefits of Physical Education
- Confidence and knowledge to participate in fitness activities for a lifetime

Essential Skills:

- Leadership
- Problem Solving (Group and Individual)
- Communication
- Self Initiative
- Individual and Team Work
- Sport and Individual Skillwork
- Water Safety

PHYSICAL EDUCATION

Grades are based on points accumulated during each class meeting. Students are expected to attend class, change into PE clothes and be prepared to participate in the class activity. Written tests, quizzes and other assignments may also be used to determine the grade. Only students who are excused from regular physical education by a physician will be exempt from classes. For any prolonged illness or injury, the physician must submit the necessary school forms to the nurse. A determination is then made concerning placement for the student.

All Physical Education classes are offered on the PSP level.

Physical Education Courses

PE4311 Intro to PE



Q1, Q2, Q3, Q4 9 .25 CR

All grade 9 PE students will begin their high school experience with this introductory class. Students will be introduced to a variety of activities that will involve team sports, individual sports, recreation/leisure, and personal fitness.

PE4315 Success Driven PE



11-12 .25 CR

This class is specifically for Juniors and Seniors that have struggled to participate in traditional Physical Education classes. The goal of this class is to help students find their intrinsic motivations for success in the gym. Whether that be personal fitness activities, or game play.

PE4113 Physical Education

Q1 10-12 .25 CR

PE4123 Physical Education

Q2 10-12 .25 CR

PE4233 Physical Education

Q3 10-12 .25 CR

PE4243 Physical Education

Career Ideas in Physical Ed:



**Athletic Training
Fitness Instructor
Leisure Studies
Officiating**

**Personal Training
Recreation
Sports Management
Teaching**

Q4 10-12 .25 CR

There are 4 main components of Physical Education styles from Team Sports, Leisure activities, Individual Sports and Personalized Fitness/Weight Training. This class allows students grade 10-12 to choose their area of interest and learn more within those areas. All students, no matter the focus they choose, will develop communication and cooperation skills.

Course Offerings: Grades 10-12

Below are the four courses students may choose from. The activities are subject to change depending on enrollment, teaching space, equipment and weather. Students are not guaranteed their first choice although every attempt will be made to give students their first choice.

PE4725 Beginner Swim Class



1Q 9-12 .25 CR

The Red Cross six-level Learn-to-Swim program is designed for children over 6 years all the way up to adults. Manchester students will progress through the levels at their own pace, mastering the skills in one level before advancing to the next. Each level of our Learn-to-Swim class will include training in basic water safety and helping others in an emergency, in addition to stroke development. The focus for our program will be students starting in levels 1 & 2.

Level 1: Introduction to Water Skills

Level 2: Fundamental Aquatic Skills

Level 3: Stroke Development

Level 4: Stroke Improvement

Level 5: Stroke Refinement

Level 6: Swimming and Skill Proficiency

PE4276 Lifeguard Training



2S 10-12 .50 CR

Prerequisite: Student must be an advanced swimmer.

Prerequisite skills include: 1) swimming continuously for 300 yards, 2) doing a surface dive to a depth of 9 feet and bring a 10 lb. brick to surface, 3) swimming underwater 20 yards, 4) student must be at least 15 years old. The lifeguard training class is certified by the American Red Cross. After having completed this course and having passed both a written test and a practical test, the student will be a trained lifeguard. Fee course: Approximately \$30—\$50 for book and facemask.

PE4115 Unified PE



Q1 9 - 12 .25 CR

PE4125 Unified PE

Q2 9 - 12 .25 CR

PE4235 Unified PE

Q3 9 - 12 .25 CR

PE4245 Unified PE

Q4 9 - 12 .25 CR

This co-taught course is designed to unite regular education students with special education classmates that have a variety of different learning challenges that may be physical, social or intellectual. The Unified PE class is often a step towards joining the Unified Sports team that competes inter-scholastically. Activities may include: team and individual sports, dance, music and a wide variety of recreational activities. The course may be repeated for credit.

PE9517 Advanced Sports Training



10-12 .25CR

This course is tailored to Athletes and high activity level students. The goal is to train them in advanced speed, agility, strength and conditioning.

PE4717 Advanced Team Sports



10-12 .25CR

Prerequisite: passing PE class

Traditional team sports activities performed at high levels. Students will learn advanced concepts, strategies and techniques.

PE9917 World Sports



10-12 .25CR

This course is designed to expose students to a variety of non traditional american sports. Sports could include: Badminton, Cricket, Tchoukball, Futsal, Rugby, Jai Alai, Team Handball, Irish Road Bowling, Barbadian Road Tennis and Bandi. One of the goals is to allow students to gain an appreciation of a variety of cultures through sports.

Health Courses

Students at Manchester High School take a semester of Junior Health, and one quarter of Freshman & Senior Health.

HE4111 Freshman Health—Post Sec. Prep



1Q/2Q/3Q/4Q 9 .25 CR

Students are introduced to a variety of wellness issues. Personal choices and personal responsibility are emphasized in relation to issues. Topics include: health issues, self-esteem, depression, substance abuse, healthy relationships and human growth and development.

HE4123 Junior Health—Grade 11—Post Sec. Prep



1Q/2Q/3Q/4Q 11 .25 CR

A variety of topics are covered in depth in this comprehensive course. Personal choices and personal responsibility are emphasized in relation to health issues. Topics include: human growth and development, nutrition, disease prevention (includes AIDS education), physical, mental and emotional health, relationships, dating violence and suicide prevention. Specific community resources are identified and utilized throughout this course.

DE4114 Senior Health—Post Sec. Prep



1Q/2Q/3Q/4Q 12 .25 CR

Students will expand their current knowledge on issues that impact their personal health and the well-being of the community. Alcohol poisoning, drunk driving, drug abuse, and sexual assault are issues that need to be discussed to ensure individual and communal safety. Students are asked to evaluate their current behaviors and explore the possible consequences of their decisions. Societal problems that result from the above issues are also discussed and the role that each citizen plays in the solution. Standard First Aid/CPR/AED training is also taught in this course.

HE4115 Universal Health



1Q/2Q/3Q/4Q .25 CR

Universal Health is a great alternative way to finish your wellness credits at MHS. The class covers units on the following topics: social media safety, cancer, vaping, nutrition and dating violence. Universal health is a fun way to obtain .25 credits in health, safety and wellness.

HE4315 Unified Health

Q1/Q2/Q3/Q4 9-12 .25 CR

This course is designed to unite regular education students with classmates with disabilities together through a variety of health, wellness, and life-skills topics. Activities will include: hygiene, personal care, pro-social relationships with peers, social media, safety within the community, and community interactions. The course may be repeated for credit.

Science

The science department's goal is to prepare students for a future in which science and technology will continue to play an increasing and integral role in the lives of individuals and society. We will work hard to develop these students as science thinkers by developing their critical thinking and problem solving skills. By implementing a comprehensive Next Generation Science Curriculum that includes inquiry-based, hands-on learning, we hope to give students the skills to continue growing as a scientifically literate citizen. Whether entering a profession in the science field or not, the skills acquired within courses in the science department will transfer and help to make students successful in any path they choose.

Career ideas in Science:

Climatologist	Nurse
Doctor	Phlebotomist
Engineer	Pharmacist
Environmentalist	Research Scientist
Forensic Pathologist	Teacher
Geologist	Veterinarian



In this department courses primarily emphasize these capacities from our Vision of a Graduate:

Critical Thinking: Analyze and evaluate ideas, claims, and/or representations to construct meaning

Self-Direction and Task Management: Complete task(s) through the development of timeline and plan, monitor progress through a feedback loop to meet designated timelines

Communication: Express ideas and share information to effectively engage an audience for a given purpose and task

Community Based Learning and School Based Enterprises:

- EMT certification
- CNA certification
- PERRY Initiative (Woman explore stem with University partners)
- American Red Cross Blood Drives: Students may apply for an internship with Saint Francis Hospital after attending the "Let's Not Meet by Accident" field trip.
- Students apply for volunteer experience with Hartford Hospital Volunteer Program
- Hartford Hospital CERI Simulation Center Field Trip
- Stop the Bleed Certification related to participation at the Let's Not Meet by Accident field trip

The Science Department offers the following courses:

Biological Life Sciences

Biology
AP Biology
Marine Science
Animal Behavior
Human Anatomy and Physiology
Sports Medicine
Science Research 1
Science Research 2
Botany

Physical Sciences

Astronomy
Earth and Space Science
Forensic Science
Chemistry
AP Chemistry
AP Environmental Sciences
Physics
AP Physics 1

Medical Careers Academy

Investigations in Health Careers
Introduction to Allied Health
MCA Seminar
Medical Terminology
EMT Training
CNA Training

Science Courses

LIFE SCIENCES

SC2032 Biology—Honors



10 1.0 CR

Students taking Biology will study cells to systems, energy and matter, ecology, genetics, and evolution according to alignment with the Next Generation Science Standards. At the Honors level the focus is on application of material, analysis of lab findings, and detailed understanding of all areas covered. The accelerated pace in an Honors class delves into the material at a deeper level, which requires students to complete additional work and independent readings outside of class in order to be most successful.

SC3032 Biology—College Prep

10 1.0 CR

Students taking Biology will study cells to systems, energy and matter, ecology, genetics, and evolution according to alignment with the Next Generation Science Standards. At the CP level students will focus on scaffolded approaches to lab activities, transfer of knowledge to new scenarios, and conceptual understanding of all areas covered. CP Biology is structured to leverage in class learning opportunities with higher levels of support.

SC1032 AP Biology—AP



11-12 2.0 CR

Sequential: Biology Honors or CP Level (B or better) & Chemistry Honors or CP Level (B or better)

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. The AP Biology course is equivalent to a two-semester college introductory biology course for biology majors. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. Summer assignment completion is required for this course. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

SC3107 Animal Behavior—College Prep



1S/2S 10-12 .50 CR

Behaviors that help animals survive in their natural environments are studied extensively in this course. We learn about various animal behaviorists and their contributions to the field, what causes behaviors and how they develop throughout the course of an animals life, functions of behavior, the social interactions of animals, and lastly, how animals have the capacity to learn behaviors starting at a young age. This course ties the content in each unit to behaviors displayed by a wide variety of animal species. Handling of living specimens may occur during the semester.

SC3217 Marine Science—College Prep



1S/2S 10-12 .50CR

This course introduces students to all of the wonders the vast oceans of the world have to offer. It begins with gaining an understanding of how the ocean is utilized along with the technology used to study it. From there, students will dive deeper into the physics behind the water (waves, tides, currents) and how it impacts all living things. Lastly, students will have a chance to explore various species of epifauna and infauna and how conservation of our waters is crucial to maintaining all forms of life. Some dissection is required.

SC3347 Botany—College Prep



11-12 (10th graders who completed Biology in GR9) .50 CR

Botany is the scientific study of plants and their relationship to the environment. In this course students investigate the growth, reproduction, anatomy, morphology, physiology, taxonomy, genetics and ecology of plants. Laboratory and outdoor experiences complement classroom activities.

SC9117 Sports Medicine—Unleveled



2S 11-12 .50 CR

Prerequisite: Investigations in Health Careers or permission of Academy Administrator

Students are introduced to the discipline of kinesiology and recreation. They will study the effects of physical activity on human beings. Topics will include exercise physiology, biomechanics, motor behavior and socio/psychological perspectives of participation in activity through the lifespan. Students will also investigate how the discipline can be applied professionally. A Physical Therapy Assistant certification opportunity may be developed in the future, but is not currently available.

SC2037 Human Anatomy and Physiology—Honors



10-12 1.0 CR

SC3027 Human Anatomy and Physiology—College Prep

10-12 1.0 CR

Prerequisite: At least a C or better in Biology CP

Human Anatomy and Physiology provides an in-depth understanding of human organ systems, their structures, functions, and malfunctions. Topics covered in the first semester include a review of cells, tissues, skin, and skeletal, muscular, and nervous systems. Laboratory work will deal with the structure, function, and diagnostics of each system. During the second semester, topics covered include the structure, function, and malfunction of the following body systems: blood and cardiovascular, lymphatic, endocrine, reproductive, digestive, respiratory, and urinary. Emphasis is placed on laboratory skills with some dissection required.

SC2057 EMT 1 (Formerly called Introduction to Allied Health) - Honors



11-12 1.0 CR

Prerequisites: Completed Biology with a passing grade. Interest in Medical Careers. This class will introduce and prepare students to take a future EMT class.

Within the class students will participate in an Emergency Medical Responder (EMR) class aligned with Connecticut OEMS. Upon successful completion, students may receive certification at the Emergency Medical Responder level. Emergency Medical Responders provide immediate lifesaving care to critical patients who access the emergency medical services system. EMRs have the knowledge and skills necessary to provide immediate lifesaving interventions while awaiting additional EMS resources to arrive. EMRs also provide assistance to higher-level personnel at the scene of emergencies and during transport. Emergency Medical Responders are a vital part of the comprehensive EMS response. Under medical oversight, Emergency Medical Responders perform basic interventions with minimal equipment.

[From the: *National EMS Scope of Practice Model*] **Successful completion of an OEMS-approved Emergency Medical Responder (EMR) training program in Connecticut with a minimum of 60 hours (including written and practical examinations).**

This course is equivalent to UCONN AH 1100. Students may be eligible to receive UCONN credit for this course.

SC2038 EMT 2 Honors



Prerequisites: EMT 1

11-12 2.00 CR

This class includes instruction in basic life support skills, treatment of bleeding control and shock recognition and care for trauma victims in medical emergencies. Emergency Medical Technicians provide out of hospital emergency medical care and transportation for critical and emergent patients who access the emergency medical services (EMS) system. EMTs have the basic knowledge and skills necessary to stabilize and safely transport patients ranging from non-emergency and routine medical transports to life threatening emergencies. Emergency Medical Technicians function as part of a comprehensive EMS response system, under medical oversight. Emergency Medical Technicians perform interventions with the basic equipment typically found on an ambulance. Emergency Medical Technicians are a critical link between the scene of an emergency and the health care system.

This is a rigorous course that is co-taught in partnership with Manchester Fire Rescue. While this class is taught at MHS, it is imperative that students consistently attend class so that they will be prepared for participation in pre-hospital care. Prior to enrollment, students must complete an application packet that is signed by a parent/guardian committing to the intent to complete the minimum of 160 hours of training required by the state. Training hours include mandatory clinical ride along/observation hours outside of the traditional classroom day in order to take the state licensing exam. This course meets the performance requirements of the National Registry of Emergency Medical Technicians (NREMT) certification exam. **Students may be eligible to receive UCONN credit for this course.**

SC9028 CNA Training



11-12 1.25CR

Prerequisites: Completion of board of education waiver forms and interview. Students must be 16 or older by completion of the course. Students must meet vaccination requirements specified by the long-term care facility. Prereg Biology, Anatomy encouraged.

This class provides the information and skills training that will enable individuals to provide quality care for residents in long-term care facilities and other health care settings. A CNA scope of practice includes providing basic care to patients while under the direction of the nursing staff. Students will need to meet the attendance requirements at MHS for both the theory as well as clinical practice of the 32 skills prior to completing clinical hours at our Long-term care partner location. During clinical rotations students will assist residents with bathing, grooming, dressing, assisting residents with eating, ambulating, vital signs, repositioning residents, providing bedpans, changing bed sheets and answering resident's call lights. Students who successfully complete this training will be eligible to take the state exam for certification as a nurse assistant (CNA). This exam can be scheduled after class completion through Prometrix. Prior to enrollment, students must complete an application packet that is signed by a parent/guardian committing to the intent to complete the minimum of 120 clinical/observation hours of training required by the state. In order to sit for the state certification exam, students must attend class, practice clinical skills in our classroom lab and demonstrate mastery of their skills during mandatory clinical observation hours outside of the traditional classroom day. Students will be required to adhere to the dress code of the facility. Up to date COVID immunization records are required.

SC2047 UCONN ECE Medical Terminology - Honors



11-12 1.0 CR

Prerequisites: C or better in Biology, Human Anatomy & Physiology and English (CP level or higher).

This Early College Experience course focuses on the introduction and mastery of medical terminology through presentation of word roots, prefixes and suffixes. It gives students the chance to earn 1 semester hour credit from the University of Connecticut for successful completion. **Students may be eligible to receive UCONN credit for this course.**

SC9106 Investigations in Health Careers—Unleveled



10 .50 CR

Prerequisite: Enrolled in the Medical Careers Academy or permission of Academy Administrator

Students in this course will explore assorted career clusters such as Dentistry, Veterinarian Services, Medical Imaging, Therapeutic Services, Sports Medicine, Nursing, Emergency Medical Technician and Pharmacy Services. Students will expand their knowledge by completing labs embedded with clinical skills related to their interests. Course topics will also include medical legal issues, ethics, basic anatomy and physiology, medical terminology, and public health. Students will complete a personalized research project to determine a tangible pathway for a healthcare career that works for them.

PHYSICAL SCIENCES

SC2051 Earth and Space Science—Honors



9 1.0 CR

Students in high school continue to develop their understanding of the three disciplinary core ideas in the Earth and Space Science, building on the middle school ideas and skills which will allow high school students to explain more in-depth phenomena central not only to the earth and space sciences, but to life and physical sciences as well. These performance expectations blend the core ideas with scientific and engineering practices and crosscutting concepts to support students in developing usable knowledge to explain ideas across the science disciplines.

SC3051 Earth and Space Science—College Prep



9 1.0 CR

Students in high school continue to develop their understanding of the three disciplinary core ideas in Earth and Space Science, building on the middle school ideas and skills which will allow high school students to explain more in-depth phenomena central not only to the earth and space sciences, but to life and physical sciences as well. These performance expectations blend the core ideas with scientific and engineering practices and crosscutting concepts to support students in developing usable knowledge to explain ideas across the science disciplines.

SC3317 Astronomy—College Prep



1S/2S 9-12 .50 CR

Skills developed in Algebra I will be used to investigate topics of current interest such as formation of stars, planets, our solar system, origin of chemical elements, novae and supernovae, white dwarfs, neutron stars, black holes, active galaxies, quasars, asteroids, meteors, distances in space and explore the possibility of life outside of Earth. The topics listed above may vary due to current events in astronomy.

SC1007 AP Chemistry—AP



11-12 2.0 CR

Sequential: Algebra 2, Honors level, or by permission of the department instructional leader

AP Chemistry places emphasis on atomic theory, bonding, chemical calculations, mathematical formulation of principles, and a laboratory component stressing qualitative and quantitative analysis. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

SC2007 Chemistry—Honors



10-12 1.0 CR

Corequisite: Honors Algebra 2

All students taking Chemistry will have exposure to the same core course material; however, Honor's Chemistry leverages a faster pace of learning in order to increase the depth of content covered. Topics include atomic structure, trends in the periodic table, behavior of electrons in atoms and chemical bonds, properties of chemical bonds and compounds, the mole and stoichiometry, conservation of matter and chemical reactions, intermolecular and intramolecular forces, thermodynamics and the behavior of gasses. Supplementary topics may be added by the instructor based on time available and student interests.

Expected Math Skills: Chemistry is a quantitative science and students will be expected to manipulate algebraic expressions, solve linear equations, and apply basic operations for rearranging equations and isolating variables. Proficiency in unit conversions, coupled with the use of ratios and proportions, will be essential for solving mathematical relationships in chemistry. Additionally, students will be expected to model polynomial functions, treating them as mathematical expressions that blend numbers and variables to represent real-world relationships. As such, Honors Algebra II completion or concurrent enrollment is recommended.

The depth of content and the independence at which the students work should determine the level of the course which should be selected.

SC3007 Chemistry—College Prep

10-12 1.0 CR

Corequisite: CP or Honors Algebra 2

All students taking Chemistry will have exposure to the same core course material; however, CP Chemistry covers less breadth within a topic, allowing for a more accessible pace of learning and more student supports. Topics include atomic structure, trends in the periodic table, behavior of electrons in atoms and chemical bonds, properties of chemical bonds and compounds, the mole and stoichiometry, conservation of matter and chemical reactions, intermolecular and intramolecular forces, thermodynamics and the behavior of gasses. Supplementary topics may be added by the instructor based on time available and student interests.

Suggested Math Skills: Chemistry is a quantitative science and students will be expected to adeptly manipulate algebraic expressions, solve linear equations, and apply basic operations for rearranging equations and isolating variables. Proficiency in unit conversions, coupled with the use of ratios and proportions, will be essential for solving mathematical relationships in chemistry. As such, CP or Honors Algebra II completion or concurrent enrollment is recommended.

The depth of content and the independence at which the students work should determine the level of the course which should be selected.

SC1006 AP Environmental Science—AP



10-12 1.0 CR

Prerequisite: Biology

This course follows the guidelines put forth by the College Board in order to prepare students for the Advanced Placement exam in Environmental Science. Topics include principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze both natural and human made environmental problems, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

SC3137 Forensics: Evidence and Analysis—College Prep



1S/2S 11-12 .50CR

Forensics: Evidence and Analysis will address many topics: types of evidence, document analysis, blood, fiber and hair, and fingerprinting. This course will utilize the Next Generation Science Standard Practices such as carrying out an investigation and argumentation from evidence. Each unit will provide students with an opportunity to explore real world case studies and complete hands on activities. Upon completion of this course students will have a better understanding of the chemistry, biology, and physics behind Forensic Science.

SC3147 Forensics: Hidden Clues —College Prep



1S/2S 11-12 .50CR

Forensics: Hidden Clues will address many topics: human remains/death, Forensic geology & palynology, ballistics & impressions, toxicology & drugs, and crime scenes/CSI. This course will utilize the Next Generation Science Standard Practices such as carrying out an investigation and argumentation from evidence. Each unit will provide students with an opportunity to explore real world case studies and complete hands-on activities. Upon completion of this course students will have a better understanding of the chemistry, biology, and physics behind Forensic Science.

SC1037 AP Physics 1—AP



11-12 1.0 CR

Sequential: Honors Geometry

Corequisite taking Honors Algebra II or PreCalculus.

AP Physics 1 is an algebra-based, college-level physics course that focuses on building foundational skills and practices rooted in deep-level, conceptual understandings of the physical laws and scientific principles and practices covered in the branch of physics known as classical mechanics. Students develop their critical thinking and scientific argumentation skills through rigorous mathematical routines, experimentation, and data analysis. AP Physics 1 moves away from traditional physics computational problem-solving, replacing much of quantitative coursework with algebraic manipulations and derivations, proportional reasoning, geometric constructs, and graphical analysis. Students' scientific logic and mathematical reasoning skills are cultivated through a working familiarity of parent functions and their associated rates of change covered in previous algebra courses, as much of the AP Physics coursework is an extension and application of those functions and dependencies as they apply to observed and measurable phenomena. As an introductory college-level physics course, AP Physics 1 is designed to mirror a first semester, algebra-based undergraduate course for introductory physics intended for Pre-Med and other majors not requiring calculus-based physics. The scope of AP Physics 1 only covers topics related to classical mechanics, which include: kinematics, force and translational dynamics, energy, linear momentum, rotational dynamics, angular momentum, oscillations, and fluids. While fewer topics are covered in AP Physics 1 than a traditional honors physics course, the depth at which each is topic covered is far greater and significantly more rigorous. Students should consider taking AP Physics 1 if their post-secondary plan includes the study of any field related to science or engineering, or if they are passionately curious and motivated to explore an intellectually stimulating, challenging, and rewarding curriculum. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

SC2017 Physics—Honors



10-12 1.0 CR

Sequential: Honors Geometry

Corequisite: Honors Algebra II or PreCalculus.

This rigorous full-year course provides students with an engaging honors-level curriculum that emphasizes abstract reasoning and applications of physics concepts to real-world scenarios. Topics are examined in greater detail than in CP physics and provide a solid foundation for collegiate-level coursework. Course components include one- and two-dimensional motion, momentum, energy, harmonic motion, waves, electricity, magnetism, optics, and circular motion. Throughout the course, students participate in a variety of interactive and hands-on laboratory activities that enhance concept knowledge and develop scientific process skills, including scientific research and technical writing.

SC3017 Physics—College Prep



10-12 1.0 CR

Sequential: Algebra 2 College Prep minimum

Co-requisite: Finite Math or Pre-Calculus or permission of department instructional leader

Physics is a laboratory science course with an emphasis on the scientific method and the fundamental principles of physics. This course is designed to provide students with a foundation for further study in biology, chemistry, and advanced science courses. This course offers the subject matter of a traditional physics course with a qualitative approach to problem solving. While the mathematical application to physics will be deemphasized, it will not be eliminated. General areas of study will include mechanics, motion, astronomy, light, sound, magnetism and electricity. Throughout the course, students participate in a variety of interactive and hands-on laboratory activities that enhance concept knowledge and develop scientific process skills, including scientific research and technical writing.

SC2006 Science Research 1—Honors



10-12 1.0 CR

This course is a one-year elective introducing students to the process of scientific research. Students choose a topic and search for journal readings to develop their knowledge of the topic. Students will create and present scientific posters and research papers based on their findings. Students may choose to pursue further during Science Research 2.

SC2027 Science Research 2—Honors

11-12 1.0 CR

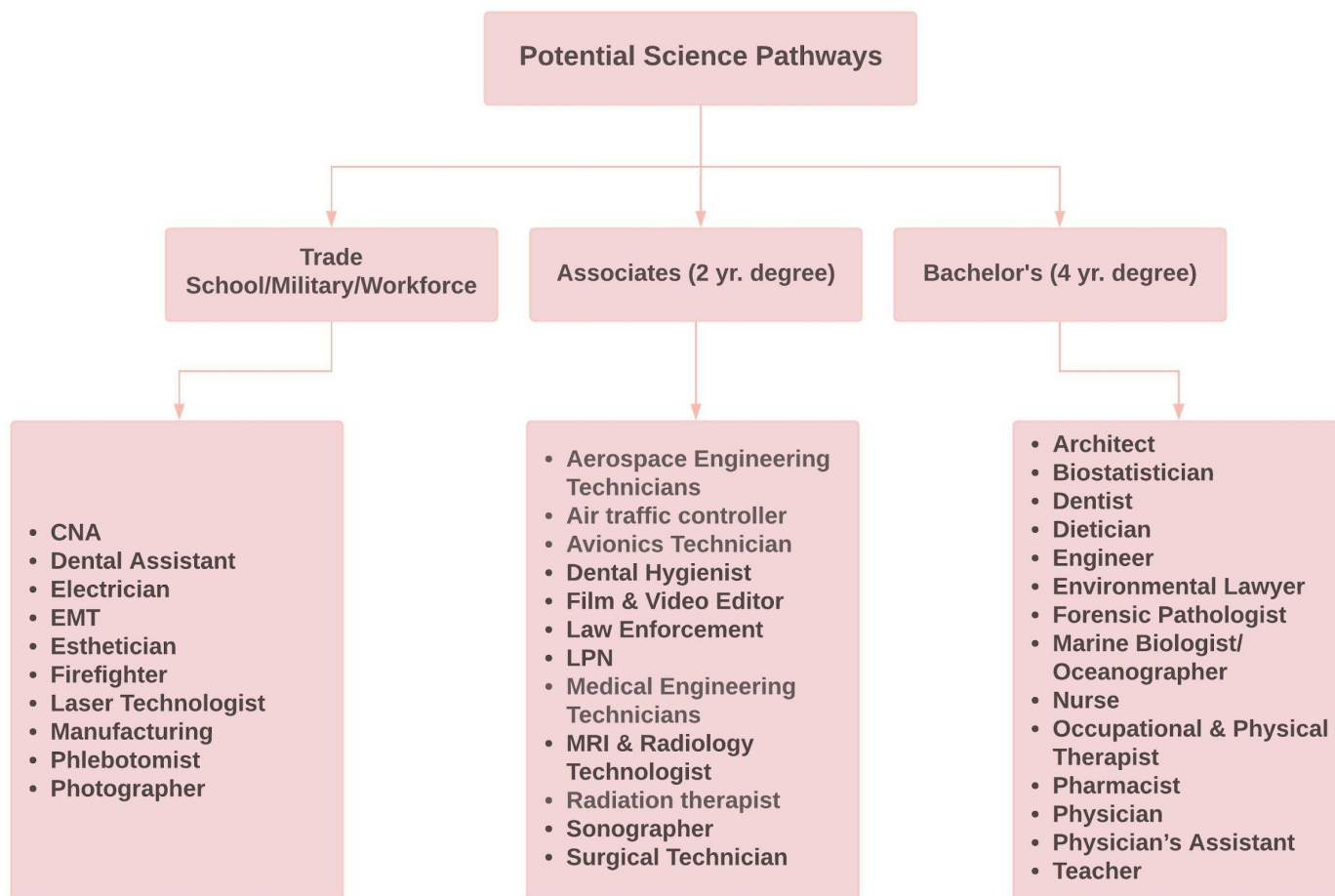
Prerequisite: Science Research 1

This course is a two-year elective in which students continue their research and develop an original research project on that topic. The students will find a mentor, plan the project, and see it through to its conclusion. During their senior year, students are required to present their research findings at competitions and symposia. Students may elect to take the course for college credit, for a total of up to twelve credits from the State University of New York. Completion of this course satisfies the independent research requirement for Science Scholars.

STEM/SCIENCE INTERNSHIPS

Explore careers in science/STEM by signing up for a STEM career exploration internship! Throughout this experience, you'll investigate whether a career path is a good fit for you and learn what it takes to succeed in a chosen field of interest. You will work closely with a school based mentor in addition to professionals at the agreed upon internship site to prepare for the experience. Internships are usually paid and may take place in school or off campus, during or after school hours. This course may be repeated for credit. Science/STEM internships include:

- **SC 9725Medical/Health Careers Internship:** A few examples of health career internships include: Possible internship sites include: Medical offices, hospitals, pharmacies, dentists, veterinarians and other local employers or organizations. New opportunities may be designed specifically based on individual student interests and goals.



- **SC 9825STEM Internship:** A few examples of STEM internships include: Local engineering firms, Fuss and O'Neal, environmental science, data science, LECTRA STEM internship and more. New opportunities may be designed specifically based on individual student interests and goals.

Science Scholar Requirements

In order to graduate as a science scholar, students must complete **7 science credits** and follow the guideline below:

All 4 (4.0 credits total) of the following: • Earth Space • Biology (Biochem I) • Chemistry (Biochem II) • Physics	A MINIMUM of 3.0 credits from the following list: • AP Biology • AP Physics (May substitute for Physics) • AP Environmental • AP Chemistry (May substitute for Chemistry) • Science Research • ECE Medical Terminology • Anatomy and Physiology • One Elective Credit	And complete both: • Independent Study Project** • Presentation at School Science Symposium
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**Examples of work that may meet this requirement include: Participation in the district science fair, participation in the Connecticut Invention Convention, Vex Robotics, Independent Research (may be met through successful completion of the science research course)

Potential Pathways:

Freshman Year	Sophomore Year	Junior Year	Senior Year
Earth & Space	Biology Science Research 1	Chemistry Science Research 2	Physics Science Research 2

Freshman Year	Sophomore Year	Junior Year	Senior Year
Earth & Space	Biology optional science course	Chemistry optional science course OR AP Science Course	Physics AP Science Course

Science Scholar Program Outline:

- Complete application by December of Senior year
- Take 7 science credits as shown above to include at least one Advanced Placement.
- Attend any meetings when held
- Have an overall average of:
 - B or better in science courses and no course lower than C (Science Scholar)
 - A- or better science courses and no course lower than B- (Science Scholar w/Distinction)

SOCIAL STUDIES

The Social Studies department of Manchester High School focuses instruction on three areas. Classes teach students the skills they will need to succeed inside and outside the school walls. Secondly, the Social Studies Department exposes students to content from areas such as History, Geography, Economics, Philosophy, Culture and Political Science. Students are instructed and encouraged to apply these skills and content knowledge in practical applications. Finally, the Social Studies department primarily focuses on the Critical Thinking and Communication Cross-Disciplinary Capacities to support the MHS Vision of a Graduate.

Careers ideas Social Studies:



Academic Researcher	Museum/Gallery
Archivist	Curator
Geographer	Teacher
Historian	

Students who wish to graduate from Manchester High School are required to earn 4 credits in Social Studies.

Students follow the course of study below. The required courses are:

Grade 09—Modern World History Part 1 (1.0 credit) & Freshman Seminar (.50 credit)
 Grade 10—Modern World History Part 2, Humanities or AP World History (1.0 credit)
 Grade 11—Modern United States History, American Studies or AP U.S. History (1.0 credit)

Students must pick ONE of the courses below in the senior year to earn .50 credits. They may also choose to take more than one of these courses as an elective. The choices are:

Grade 12—Civics (.50 credit)
 Grade 12—CCSU Law & Order (.50 credit)
 Grade 12—Law & American Society (.50 credit)
 Grade 12—Advanced Placement United States Government & Politics (1 credit)

All students in their Junior or Senior Year must take Human Rights (.50 credit)

In addition to the required courses, the Social Studies Department offers the following Elective Courses:

<i>Advanced Placement United States Government and Politics Law & Order</i>	<i>Sociology Psychology Truth</i>	<i>History of Sports Modern American Music & Film Criminology</i>
<i>Advanced Placement Microeconomics African-American/Puerto Rican & Latino Studies</i>	<i>Economics Human Rights Education in a Multicultural Society</i>	<i>UConn Latin American Studies UConn Human Rights UConn Conflict & Peace Studies</i>
<i>Advanced Placement Psychology</i>	<i>Live Like a Philosopher</i>	<i>UConn Maritime Studies</i>

Social Studies elective courses are designed to provide concentrated study on specialized topics, to meet student interests and needs, and to acquaint students with employment opportunities in related Social Studies fields.

Required courses for the 9th, 10th, 11th grades are offered on all levels. Elective courses are also offered at a variety of levels.

Social Studies Required Courses

9th Grade

SS2011 Modern World History Part 1—Honors 

9 1.0 CR

SS3011 Modern World History Part 1—College Prep

9 1.0 CR

The focus of this class will be historical trends taking place from 1200-1750 CE. Students will develop a greater understanding of increasing global interactions between both western and non-western cultures. The course will emphasize the social, political and technological events that have shaped our modern world. Finally, students will focus on making connections from the past to the present, and will develop important critical thinking and writing skills.

10th Grade

SS1012 AP World History—AP Level  

10 1.0 CR

The purpose of the Advanced Placement World History course is to develop a greater understanding of the evolution of global contacts and processes, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. Focused primarily on the past 750 years, the course emphasizes cultural, institutional, and technological events, along with geography of the empires of China and Mesoamerica; the expansion of Islam, Mongol dominance, and the period of new political units in Africa and Europe. Students will complete extensive reading in both primary and secondary sources, as well as numerous written assignments. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

SS2022 Humanities—Honors 

10 1.0 CR

Corequisite: EN2022 Humanities English

This course examines modern World History through an interdisciplinary model. The course will be team-taught by members of the Social Studies and Language Arts faculty. Students will focus on skill development and common core tasks as they examine the origins of the modern world through the present. The course will focus on cultural studies as well as the history and literature of a time period. Students will examine art, architecture, and music to fulfill the interdisciplinary mission of the course.

SS2012 Modern World History Part 2—Honors 

10 1.0 CR

SS3012 Modern World History Part 2—College Prep

10 1.0 CR

The focus of this class will be historical trends taking place from the early 19th century to the modern era. Students will develop a greater understanding of increasing global interactions between both western and non-western cultures. The course will emphasize the social, political and technological events that have shaped our modern world. Finally, students will focus on making connections from the past to the present, and will develop important critical thinking and writing skills.

11th Grade

SS1023 UCONN Advanced Placement United States History—AP Level  

11 1.0 CR

This course is an intensive chronological examination of United States History. The course surveys the political, economic, and cultural life of the nation from early European exploration to the 21st century. The first semester focuses on the origins of the United States through the Age of Imperialism. The second semester completes the survey to present day and prepares students to take the AP Exam in May. Students will complete extensive reading in both primary and secondary sources as well as numerous written assignments. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students. Students may be eligible to receive UCONN credit for this course.**

EN2043 UCONN American Studies—Honors  

11 1.0 CR

Corequisite EN2043 American Studies

Students study American History and Literature. The course also places a heavy emphasis on American cultural studies, such as art, architecture and music. The student earns a credit which fulfill the U.S. History requirement as well as a credit for one year of English coursework. **Students may be eligible to receive UCONN credit for this course.**

SS2023 Modern US History - Honors 

11 1.0 CR

SS3023 Modern US History—College Prep

11 1.0 CR

The goal of this course is an in-depth analysis of key events, people and issues in late nineteenth and twentieth century United States History, with special emphasis on key themes, concepts, and skills. The course is arranged chronologically and begins with the United States centennial of 1876. The first semester examines American politics, culture, foreign policy and economics. The second semester follows the United States through the Great Depression of the 1930s until present day.

12th Grade

Students must take ONE of the following four courses

SS9104 Civics—Unleveled 

1S/2S 12 .50 CR

The goal of this course is to get students actively involved in the world around them and convince them of the importance of being an active and contributing member of American society. The emphasis is on participation which might include simulations, case studies, position papers, mock trials and debates, interviews, polls, field trips, guest speakers, community service, and shadow experiences.

SS2124 CCSU Law and Order—Honors  

1S/2S 12 .50 CR

This course is a critical examination of the criminal justice system that includes current topics and events, policies, procedures, case studies, and case law, and an examination of criminal justice careers. It is taught in conjunction and partnership with Central Connecticut State University and the Manchester Police Department (with a MPD educational coordinator). The course includes field trips to Hartford Superior Court and potentially to State of Connecticut correctional facilities. The class includes numerous “practical” field tests, group projects, and academic papers for students. The class occasionally meets at the Manchester Police Department station -- the class has access to parts of the facility that are normally inaccessible to the general public -- and students are responsible for walking to the station or providing their own transportation on days when the class meets there. **Students may be eligible to receive CCSU credit for this course.**

***** To be eligible for enrollment and to maintain enrollment in the course, each student must successfully pass a background check by the Manchester Police Department. In addition, a separate background check will be conducted by the Department of Corrections (DOC), which may prevent the student from participating in a planned field trip to DOC facilities. Further, it is expected that your child will abide by the laws set forth in the Connecticut General Statutes. If there are any violations of said laws during the semester, your child may be removed from the course. *****

SS1024 Advanced Placement United States Government and Politics—AP Level  

12 1.0 CR

Prerequisite: Successful completion of a US History course

This is an intensive introduction to US Government and Politics. The six topics of the course are Constitutional Underpinnings of United States Government; Political Beliefs and Political Behaviors; Political Parties, Interest Groups, Institutions of the United States Government and Mass Media. The course provides students with practice in analyzing and interpreting data and other information relevant to U.S. government and politics. Students will focus on supplemental readings, including primary source materials and contemporary news analyses that strengthen student understanding of the curriculum. The course requires students to answer analytical and interpretive free response questions on a frequent basis to prepare for the test. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

SS8314 Law in American Society—Multi-Level 

1S/2S 12 .50 CR

This is a course for students interested in all aspects of law. Units deal with constitutional law, housing law, domestic situations, consumer protection, and civil law. Legal research, case readings, field trips to court, guest speakers, and mock trials are utilized to give the student a better view of the complexity of the justice system.

Students are required to take one of the following two courses in their junior or senior year:

SS3254 Human Rights—College Prep



1S/2S 11-12 .50 CR

The purpose of this course is to prepare students for the benefits and challenges of living in an emerging global society. This course will focus around human rights as a central theme and tenet, and help students to think about the omnipresent question “What are my rights and responsibilities as a global citizen?”

SS2254 UCONN Human Rights—Honors



1S/2S 11-12 .50 CR

The purpose of this course is to prepare students for the benefits and challenges of living in an emerging global society. This course will focus around human rights as a central theme and tenet, and help students to think about the omnipresent question “What are my rights and responsibilities as a global citizen?” **Students may be eligible to receive UCONN credit for this course.**

Social Studies Electives

SS1034 AP Microeconomics—AP Level



11/12 1.0 CR

This is a one-semester course that explores how people and businesses make decisions for dividing, sharing, and assigning resources. In this course, students will learn how product and factor markets work, how income is distributed, what happens when markets fail, and the role of government in the economy. Students will explore the moral implications of economic decisions of public policy and business decisions and how these choices impact consumers. Students will learn these concepts and principles by focusing on local businesses and exploring the impact of business decisions on groups that have faced barriers to entrepreneurship such as people of color and women. Additionally, students will examine businesses that have been traditionally overlooked and how current trends have created a more inclusive business landscape. Students learn to use graphs, charts, and use data to analyze, describe, and explain economic concepts. Also, students have the opportunity to choose topics based on interest. The goal of the course is for students to understand microeconomics, how it impacts them, and how they can make a difference in society. This course is perfect for students who are interested in careers including, law, risk management, actuarial science, finance, foreign affairs, public administration, politics, policy analysis, health administration, entrepreneurship, market analysis, journalism. *This class is open to juniors and seniors. The best candidates for this course are honors and AP level students, as well as CP students with strong academic records.* **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

SS1004 Advanced Placement Psychology—AP Level



12 1.0 CR

This is a year-long course. Students in this course will explore various theories of psychology, as well as physiological and scientific aspects of psychological development. Students in this course will be expected to do substantial independent research on topics in psychology. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

SS8104 Psychology—Multi-Level



1S/2S 11/12 .50 CR (GR10 EPSA can request)

Psychology is the study of human behavior. Students selecting this course will learn more about themselves by exposure to topics such as Stress Management and Attitude Formation, Normal vs. Abnormal Behavior, Altered States of Consciousness, Human Sexuality and Personality Development Theory. Good reading, listening and writing skills are needed. Students electing psychology at the honors level will also do extensive research in a specific area of psychology chosen by the student and the instructor. Grade 10 EPSA students may take this course.

SS8106 Sociology—Multi-Level



1S/2S 11/12 .50 CR (GR 10 EPSA students can request)

Sociology is the scientific study of the patterns of human group life. This class looks at patterns of human behavior by studying the membership groups people belong to. The class will examine concepts in sociology such as norms, values, status, ranking and roles. The class will also explore the societal problems of crime, aging, environment, urbanization, and terrorism from the perspective of a sociologist. Students will read and write on assigned topics. The class will also help the student master technology and problem solving skills. Grade 10 EPSA students may take this course.

SS8134 Economics—Multi-Level



1S/2S 11/12 .50 CR

Economics is more than the study of money. This one semester course examines the social science of economics from three directions. The course begins with an introduction to the basic concepts of the American economic system. The emphasis then shifts to examine the role of business in the economy. The last section of the course deals with the consumer and their role in the economy. Students will explore topics such as supply and demand, inflation and unemployment, labor and unions, stocks and investments that will lead them to effective decision-making and responsible citizenship. Students will experience a variety of teaching methods and be exposed to a number of guest speakers.

SS8108 Black and Latino Studies A—Multi-Level



1S/2S 11/12 .50 CR

This is a one semester survey of Africans in America from their arrival as slaves in Virginia to modern times. The class takes a detailed and comprehensive study of the historical, social, political, and cultural development of African-Americans. Special emphasis is placed on the origins and nature of slavery, Reconstruction and the Era of Jim Crow, the Harlem Renaissance, and the struggle for Civil Rights. Students also make connections to the modern day struggle for equality, freedom, and dignity of African Americans in the contemporary world. This class is offered at the Multi-level which means students arrange with the instructor the level of work they will attempt.

SS8208 Black and Latino Studies B—Multi-Level



1S/2S 11-12 .50 CR

Students will consider the scope of Puerto Rican/ Latino contributions to U.S. history, society, economy, and culture. It utilizes an inquiry-based approach to deliver a content rich and personalized learning experience. The course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives, and collaborations of Puerto Rican/Latino people in the U.S. Students will examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they worked to build U.S. cultural and economic wealth and create more just societies in local, national, and international contexts. This course will contribute to the critical consciousness and civic-mindedness competencies of a twenty-first century graduate.

SS2154 UCONN Latin American Studies—Honors



1S/2S 12 .50 CR

It examines the contributions of the many cultural/racial groups of the Americas, with specific reference to Latin Americans in the United States. Students will examine and use primary and secondary sources to critically evaluate the historical development of Latin America, and judge the impact in both the past and the future. Students will also examine the culture of the area through a study of literature, art, architecture, music and other folkways. Students will be expected to apply prior knowledge, critical thinking skills, and imagination to explore issues both past and present in Latin America. **Students may be eligible to receive UCONN credit for this course.**

SS2114 UCONN American Maritime Studies—Honors



1S 12 .50 CR

American Maritime Culture is a semester course that gives the student an opportunity to earn 3 semester hours of credit from the University of Connecticut. Students will be expected to read, write and conduct research at the college level during the course of the semester. This course explores the ways that America's relationship with the sea created opportunities for the creation of a multicultural and multinational seafaring society. Students will discuss the extent to which this seafaring society allowed participants to escape the potential harms of repressive social institutions of the land. The history, literature, and art of the sea feature prominently in student exploration of the lasting impacts of maritime history on our modern world. This course is equivalent to the UCONN MAST 1200 course. **Students may be eligible to receive UCONN credit for this course.**

SS8506 Criminology—Multi-Level



1S/2S 10-12 .50 CR

This course is an introduction to the fundamental principles of criminal behavior. Students explore the nature, existence and causation of crime. Concepts of deviance and justice will be examined as it relates to cross-cultural perspectives. Students in the Education and Public Service Academy have priority..

SS2163 UCONN Conflict & Peace Studies—Honors

1S/2S 11-12 .50 CR

Prerequisite: Successful completion of 10th Grade World History. Suggested: Students who have previously completed Human Rights. This course is an elective course open to juniors and seniors that will run as a pilot during the 2021-2022 school year. This course challenges students to examine the compelling reasons why people are motivated to engage in either conflict or peace. Through this class, students will examine the psychology and sociology behind violence and peace, international law on conflict prevention, and the motivating reasons behind conflict. Students will examine both historical and modern examples of genocide and the factors as to why genocide occurs. This course will focus on other forms of conflict, including racial, cultural and social conflict. Students will be able to examine their own roles and behavior, and engage in learning activities on how peace education, activism, and forms of healing & reconciliation can repair human harm. **This course is equivalent to UCONN HRTS 2200. Students may be eligible to receive UCONN credit for this course.**

SS2137 CCSU Education In A Multicultural Society—Honors

1S/2S 10-12 .50 CR

Education In A Multicultural Society is an introductory course focused on the evolving purposes and roles of education and teachers in American society, issues of diversity and equity in education, and the societal and cultural factors, key policies, and court cases that have shaped education in the U.S. EPSA students have priority in enrollment. **Students may be eligible to receive CCSU credit for this course.**

SS8507 History of Sports — Multi-level

1S/2S 10-12 .50 CR

This course will examine the history of sports, their foundations, as well as examine the role sports and sports figures have played in shaping and changing society. In this course students will examine the development of sports through various historical perspectives. There will be an emphasis on helping students gain a better understanding of the inner relationship that sport has on social, economic, cultural, and political forces that are at work in the United States as well as the world. Students will examine the historical context as well as the significance of gender, race, ethnicity and social class through readings, primary sources, audio and visual materials as well as class discussions.

SS8306 Modern American Music and Film—Multi-Level

1S/2S 12 .50 CR

Using music and film, this course will explore various cultural trends and changes that have taken place in America since 1900. Students will view films and listen to music from the early 1900's up to present day. Students will gain an appreciation of American culture as well as explore the vast diversity of these two forms of American culture. Music to be studied will include jazz, the blues, folk, grunge and rap. Films will include "classics" from each decade as well as modern day trends. Students need to be intelligent watchers of film and intelligent listeners of music. Interdisciplinary projects and presentations are required. **This course is not approved by the NCAA as a core course.**

Truth Seminars

The purpose of the Truth Seminars is to provide a space for the explorations of Truth, in all its forms, across disciplines, cultures, time, and ideology. The questions that frame the courses are "What is true?" and "How can truth be known?" These questions are then explored via philosophical and disciplinary frameworks as we explore various "truthy" ideas in the world such as conspiracies, faith, ethics, media and arguments.

SS3556 Introduction to Truth—College Prep

1S/2S 10-12 .50 CR

This class challenges students to answer the questions "What is true?" and "How can truth be known?" Students will read and discuss philosophical and disciplining frameworks that shape our world.

SS3566 Ethics—College Prep

1S/2S 10-12 .50 CR

This class will explore different content each semester using the frameworks from the Introduction to Truth class. Topics include “Persuasion”, “Power”, “Media”, and “Ethics.” The class covers current topical issues from across the globe through the “truth frameworks.”

TECHNOLOGY EDUCATION

Technology courses provide students with experiences in the application of technology, an appreciation of the impacts of technology on our society, and the opportunities technology provides. The program develops technological skills and provides opportunities for career exploration within technological fields. Students participate in exciting, hands-on activities while achieving these goals.

Careers ideas Technology Education



Automotives

Aviation

Broadcasting

Computer Technology

Construction

Graphic Design

Electronics

Engineering

Manufacturing

Photography

Robotics

Program Features:

- **Career Pathways Programs:** Students receive Manchester Community College credit for courses taken at MHS. See diagram page.
- **Architecture:** Classes have designed houses for Habitat for Humanity, and their architectural drawings have been used in planning renovation projects at MHS.
- **Tools and Materials:** Classes have built and installed cabinets and computer desks at MHS.
- **Automotive Technology:** Students have designed and built alternative energy vehicles and raced them in statewide competition.
- **Construction** classes build a scale model house, learn how to read blueprints or help build a full size storage shed using the latest tools and construction techniques.
- **Robotics** students build real robots and test them in various challenges.
- **Explorations in STEM:** Students explore transportation, manufacturing, construction and communication technologies and use technology to design, create and share new ideas.
- **Engineering Design:** Classes solve community based problems by using the Engineering Design Process. Students will learn to use basic CAD programs, 3D Printers, and other manufacturing tools to design, build prototypes, test, and evaluate their solutions to problems found in the community.

Broadcast Journalism: Students work as a team to produce a television news magazine program called, “The Pulse!”

In Technology Education courses, students learn many real world skills, such as:

• Program a robot • Create a CAD model • Design a house • Weld metal • Code a computer program • Cut, drill and saw wood • Build a model plane • Use an oscilloscope • Produce a TV program • • Create a Podcast	• Design an electronic product • Design business cards • Make a circuit board • Operate a CNC milling machine • Build a rocket • Solder electronic parts • Design an electronic car • Make a blueprint • • Design an app	• Design a robotic vehicle • Capture media on a DSLR camera • Build a bookcase • Learn Physics • Measure voltage • Build a model house • Build an amplifier • Balance a tire • Read a blueprint • Design, build and race an electric car • Design a website
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Multi-level courses allow students to elect the level (honors, college prep, post-secondary prep) on which to be evaluated early in the course.

The Technology Education Department offers the following courses:

Introduction to Technology <i>Explorations in STEM</i>	Construction <i>Woodworking 1</i> <i>Woodworking 2</i> <i>Construction 1</i> <i>Construction 2</i> <i>Architecture 1</i> <i>Architecture 2</i>	Communications <i>Communications Workshop</i> <i>Graphic Design</i> <i>Video Production</i> <i>Advanced Media</i> <i>Broadcast Journalism</i> <i>Photography</i> <i>Yearbook</i>
Engineering <i>Electronics 1</i> <i>Electronics 2</i> <i>Robotics</i> <i>CT State CAD Solidworks</i> <i>Computer Programming</i> <i>Game Design</i> <i>AP Computer Science A</i> <i>Engineering Design</i> <i>Mobile App Design</i>	Manufacturing <i>CT State Manufacturing and Machining</i> <i>CT State Blueprint Reading</i> <i>Manufacturing Pre-Apprenticeship</i>	Transportation <i>Auto 1</i> <i>Auto 2</i> <i>Aviation and Aerospace</i>

Technology Education Courses

INTRODUCTION TO TECHNOLOGY

TI8105 Explorations in STEM Innovation and Design—Multi-Level

1S/2S 9-12 .50 CR

Students will complete a variety of projects while using computer software programs and workshop tools/equipment to discover concepts of communication, construction, transportation, manufacturing, design, and engineering. Class activities include Internet Research, Basic understanding of the Computer, Bridge Design, Architecture, Laser Manufacturing, Magnetic Levitation, Robotics and more.

COMMUNICATIONS TECHNOLOGY

TC8135 Communication Workshop—Multi-Level

1S/2S 9-12 .50 CR

This multi-level course is recommended for students interested in exploring the areas of communication technology. Students are introduced to computer graphic design, website design, desktop publishing, photography and video production. There is an emphasis on authentic project-based learning, critical thinking, collaboration and build communication skills. This course is recommended as a starting point, to be taken prior to Photography, Video Production, or Graphic Design courses.

TC8515 Video Production—Multi-Level

1S 9-12 .50 CR

This is a gateway course for Advanced Media and Broadcasting

This course introduces students to basic video field production. This course is a project driven class. Students will work in small groups and individually on teacher-approved segments (projects) throughout the course of the semester. Students will write and tell a story through the use of industry standard editing programs and field production equipment. Scripts and storyboards are created for a multitude of projects.

TC8126 Graphic Design and Publishing—Multi-Level

1S/2S 10-12 .50 CR

This course allows students to advance their skills in computer graphic design. Students learn In-Design and Photoshop and apply these industry standards in a challenging business-like setting. Students design and print jobs for clients in the MHS Community.

Project examples include t-shirts, posters, business cards, newsletters, commercials, signs and any products your clients may need. This course is a prerequisite for Yearbook.

TC8535 Advanced Media—Multi Level

(Formerly Sports, Radio & Studio)

9-12 .50 CR

Sequential: Video Production

Podcasting, green screen production, sports broadcasting, graphic design for television and studio production... it's all in this course. Students take the basic concepts taught in Video Production 1 and build advanced skills and techniques used in the industry of media production. Students will work toward building a "demo reel" final project that allows college admission reps and prospective employers the opportunity to see your skill and talent. **Production time after school is necessary to record events for class projects.**

TC2016 Broadcast Journalism—Honors

10-12 1.0 CR

Sequential: Video Production

This course allows students to plan, shoot, and edit their own news stories, take on roles in the studio as camera operator, script writer, director, sound engineer, graphic designer, editor, lighting technician, and anchor for Manchester High School's Television News Program, "THE PULSE". This course will require studio/field reporting work after school in the community. **Production time after school is necessary to record events for class projects.**

TC8146 Photography—Multi-Level

1S/2S 9-12 .50 CR

This is an introductory course in amateur photography. Students plan, shoot and use a computer to manipulate and enhance the quality of the pictures they take. Students are instructed in the correct use of a digital camera, advanced functions and features of digital cameras, photo composition techniques, digital photo retouching and image merging using Photoshop software. Students are expected to work independently after school with their camera.

TC8057 Yearbook—Multi-Level

9-12 1.0 CR

This course is designed to produce the high school yearbook SOMANHIS and an end of the year supplement. This course integrates a number of skills such as marketing, business, finance, technology, writing, photography, management, and all activities related to publishing a yearbook. Students will have a variety of experiences in writing, layout, marketing, photography and collaboration and should expect to work on a variety of projects and topics throughout the year. Students can repeat this course for credit.

CONSTRUCTION TECHNOLOGY

TI8115 Woodworking—Multi-Level

1S 9-12 .50 CR

2S 9-12 .50 CR

This course is designed to acquaint students with the hand and machine tools and techniques of working with wood. Students learn to design, build, and finish various types of products. Emphasis is placed on safety, design, and quality.

TI8126 Woodworking 2—Multi-Level

1S 10-12 .50 CR

TI8225 Woodworking2—Multi-Level

2S 9-12 .50 CR

Sequential: Woodworking 1

This course is a continuation of Using Tools and Materials. Students will continue to use hand and machine tools in more advanced projects and techniques of working with various materials. Emphasis is placed on design and execution. Students wishing to further their experiences in this subject should register for the appropriate Seminar in Technology Education. This course may be repeated for credit.

TN8516 Construction Technology 1—Multi-Level



1S/2S 9-12 .50 CR

This course provides the student with an overview of structures such as walls, trusses, beams, towers, dams, bridges, and the forces acting upon them. Various materials that are used in the construction process are studied. Destructive testing will be employed to verify structural design and assembly of models. Students will expand their working knowledge of basic math. Students will improve skills such as reading a ruler, using fractions and applying simple geometric concepts, and work with construction specific power tools.

TN8425 Construction Technology 2—Multi-Level



1S/2S 10-12 .50 CR

Sequential: Construction Technology 1 (grade C– or better)

This course deals with the various components of the U.S. infrastructure, including houses, bridges, highway systems, buildings etc. Emphasis is placed upon light construction, residential building, creating and reading blueprints and shed construction. Students enrolling in Construction 2 are expected to be proficient in basic math. They should be able to read a ruler, use fractions and have an understanding of geometry. Students may select one component of the infrastructure and build a scale model based upon individual research. Students wishing to further their experience in Construction should register for Construction Seminar, provided they received a grade of C– or better in Construction 2.

TN8315 Architecture 1—Multi-Level



1S/2S 9-12 .50 CR

This course provides a working knowledge of the fundamental concepts of architectural drafting and introduces students to using computers to create construction documents. This focus is learning to create scaled and dimensioned floor plans, elevation views, and photo-realistic 3D renderings. Students will complete a variety of projects that require them to visualize how space can best be used and develop solutions within specific guidelines. Architectural projects focus on residential construction.

TN8426 Architecture 2—Multi-Level



1S/2S 9-12 .50 CR

Sequential: Architecture 1

This course builds upon the experience in Architecture 1. Students will address the more advanced concepts of design, structural efficiency, and aesthetics. Focus will be placed on presenting design ideas, specifying building materials and components and incorporating schedules and detail drawings into the design process. These concepts will be incorporated into student constructed scale models and CAD drawings. Students wishing to further their experiences in this subject should register for the appropriate Seminar in Technology Education.

MANUFACTURING TECHNOLOGY

TD8307 CT State Manufacturing and Machining—Honors



1S/2S 11-12 .50CRt

Provides theoretical concepts and develops the knowledge and “hands-on” skills in the conventional lathe and milling manufacturing processes. The lab portion introduces common metal cutting tools, lathe and milling machine set-ups and machine operation. In addition, the lab includes the associated use of measuring tools and instruments used in the inspection of class required projects.

Students enrolled may be eligible to receive 3 CT State credits

CT State Blueprint Reading — Honors



1S/2S 10-12 .50CR

An introduction to the interpretation of engineering drawings beginning with the basics of orthographic projection. Topics include: working drawings, lines, linear and angular dimensioning, sectional views, tolerances and allowances, thread representation, arrowless and tabular dimensioning, steel specifications, auxiliary views, point-to-point and datum dimensioning conforming to ANSI Y14.5M and ISO standards. **Students enrolled in the appropriate CT State College Career Pathways Program who take this class in their sophomore, junior, or senior year may be eligible to receive 3 CT State credits**

TD3316 Manufacturing Pre-apprenticeship Program



1S/2S 11-12 .50CR

Prerequisite: CT State —Computer Aided Design and Drafting 1 or Engineering Drawing Interpretations

In this course students will prepare for a paid placement involving at least 72 hours of paid work experience at a local manufacturing site. Students will use the same competency-based learning that is used in over half of the Fortune 500® manufacturing companies nationwide, and complete “Tooling U” instructional modules, a program aligned to nationally recognized industry credentials, as well as to the Department of Labor (DOL) Advanced Manufacturing Curriculum Model. Students will be exposed to CNC machinery that local manufacturers have recommended will be useful in a job setting and will prepare for paid pre-apprenticeship positions. Placement meetings will be held and parents/guardians will attend hiring meetings with the employer, school staff and the Department of Labor.

ENGINEERING & DESIGN

TE8116 Electronics Technology 1—Multi-Level **1S/2S 9-12 .50 CR**



This course is an introduction to the fundamental concepts and principles of electronics. Students will learn about basic circuit components such as resistors, capacitors, and transistors, and how they are used to create simple electronic circuits. The course will cover topics such as Ohm's Law, Soldering, and circuit analysis techniques. Hands-on laboratory experiments will provide students with practical experience in building and testing basic electronic circuits and continuing into PC building and repair.

TE8236 Electronics Technology 2—Multi-Level **1S/2S 9-12 .50 CR**



Sequential: Electronics Technology 1

This course dives into the skills and concepts needed for the career path of an electrician. Students will learn to install circuits, maintain lighting, power, climate control and security systems. Students will install electrical conduit and wiring for residential homes, wire switches, receptacles, and lighting fixtures. Additionally, students will get the opportunity to test and repair circuits and equipment. Apprenticeship opportunities may be available to students who are interested in further exploration.

TD8106 Robotics—Multi-Level **1S 9-12 .50 CR**



TD8206 Robotics—Multi-Level **2S 9-12 .50 CR**

Recommended for students interested in robotics, engineering, or other technical careers. This course provides an introduction to the basics of robotics structure and control. Students will construct several different robots for different scenarios. Students will experience hands-on building, personal driving, and software programming of the robot.

TD8306

TD8306 CT State Blueprint Reading — Honors **1S/2S 10-12 .50CR**



An introduction to the interpretation of engineering drawings beginning with the basics of orthographic projection. Topics include: working drawings, lines, linear and angular dimensioning, sectional views, tolerances and allowances, thread representation, arrowless and tabular dimensioning, steel specifications, auxiliary views, point-to-point and datum dimensioning conforming to ANSI Y14.5M and ISO standards. **Students enrolled in the appropriate CT State College Career Pathways Program who take this class in their sophomore, junior, or senior year may be eligible to receive 3 CT State credits**

TD8115 CT State Computer Aided Design (CAD) SolidWorks1 - Honors **1S/2S 10-12 .50 CR**



An introduction to the techniques of generating graphic images with computers using SolidWorks Topics include: overview of CAD technology, computer technology, hardware descriptions and requirements, file manipulation and management, two-dimensional geometric construction, symbol library creation, dimensioning, scaling, sectioning, plotting, detail and assembly drawing including tolerance studies. **Students enrolled in the appropriate CT State College Career Pathways Program who take this class in their sophomore, junior, or senior year may be eligible to receive 3 Ct State credits**

BU8185 Computer Programming I—Multi-Level **9-12 .50 CR**



This course is your gateway to understanding the language of technology. Through hands-on projects, interactive coding challenges, and real-world applications, you'll develop the skills needed to create your own digital product and prepare for more advanced coding.

TD3101 Game Design—Multi-Level
1S/2S 10-12 .50 CR

Sequential: Computer Programming I or approval of Department Chair

This course is designed to further the study of computer science and game design theory. The course incorporates theory, language, and the architecture of game design into the challenge of dealing with the complete design and programming of a computer game. Emphasis on game structure, function, and software design and programming will be stressed.

TD1006 AP Computer Science A —AP Level
10-12 1.0 CR

Prerequisite: Students must currently be enrolled in or have previously taken Algebra 2

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. Because the Java programming language is extensive, with far more features than could be covered in a single introductory course, the AP Computer Science A Exam covers a subset of Java. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

TD8126 Engineering Design—Multi-Level
1S/2S 9-12 .50 CR

Students will learn to use the Engineering Design Process to design solutions to various community problems. These projects will allow students to learn how to use 3D Printers, Laser engraver/cutters, CNC routers, and Computer Design Programs (Solidworks, CAD). Students will have hands-on experience in designing, building, and testing prototypes to solve problems in the community. Through this they will build an understanding of Engineering Design, critical thinking, and problem solving.

TD8136 Mobile App Design—Multi-Level
1S/2S 10-12 .50 CR

Students in this course will learn computer science topics by building socially useful, Android-based mobile apps. In addition to programming and computer science principles, this project based course emphasizes writing, communication, collaboration and creativity.

TRANSPORTATION TECHNOLOGY

TT8105 Aviation & Aerospace—Multi-Level
1S/2S 9-12 .50 CR

Aviation and Aerospace provides an introduction and overview of flight technologies. Students will study the parts of an airplane, power for flight, and rocket technology. Proper quadcopter operation and FAA rules will be explored. The principles of flight will be examined and applied using scaled gliders, powered aircraft, and rockets. Satellites, space travel, and aerospace careers will also be explored. Students will exhibit their piloting skills using a radio controlled flight simulator program. Students wishing to further their experiences in this subject should register for the Aviation and Aerospace Seminar in Technology Education.

TT8106 Auto 1—Multi-Level
1S/2S 10- 12 .50 CR

Do you know how to change a tire? Jump start a car? Change your oil? **THIS COURSE IS FOR YOU!** Students will learn about various careers in the auto and transportation industry in this introductory course that covers automotive technology, including the fundamentals of automobile and small engine operation, maintenance and repair. Students will learn about safety in work environments and earn a Department of Labor issued OSHA 10 card, a highly valued industry recognized credential. Students will learn the importance of preventive and scheduled maintenance and have skills necessary to perform routine maintenance on personal vehicles in an automotive workshop setting..

TT8216 Auto 2—Multi-Level
1S/2S 10-12 .50 CR
Sequential: Automotive Technology 1

This advanced course will expose students to the automotive industry and raise awareness of and increase exposure to career opportunities within the automotive industry. Students will develop entry level job skills as recommended by local business partners with an increased emphasis on safe work habits and proper use of tools and equipment in the workshop. Activities include the diagnosis, inspection, service, and repair of automotive systems. Prescriptive instruction covers brakes, suspension and steering, engine performance and electricity/electronics. Students may repeat this class for credit with an individualized focus on career development and experiential learning opportunities in the industry.

TECHNOLOGY INTERNSHIPS

Explore careers in construction or architecture by signing up for a technology career exploration internship! Throughout this experience, you'll investigate whether a career path is a good fit for you and learn what it takes to succeed in a chosen field of interest. You will work closely with a school based mentor in addition to professionals at the agreed upon internship site to prepare for the experience. Internships are usually paid and may take place in school or off campus, during or after school hours. This course may be repeated for credit. Technology internships include:

- **TN 9725 Construction/Architecture Internship:** A few examples of construction/architecture internships include: various trades such as electrical, woodworking HVAC, fleet work, landscaping, architecture, CAD (Computer Aided Design), Town TRADE program and more. New opportunities may be designed specifically based on individual student interests and goals).
- **TC9725 Arts, AV & Communications Internship:** Possible internship sites include: Local news stations, marketing firms or departments within companies, Little Theater of Manchester, WORK_SPACE art galleries, publishers and other local employers.
- **TE725 Information Technology Internship:** A few examples of IT internships include: Manchester School IT internship program, Aresome Technologies and other local employers. New opportunities may be designed specifically based on individual student interests and goals.
- **TD3316 Manufacturing Internship:** Explore careers in manufacturing by signing up for the Manufacturing Pre-Apprenticeship Course TE13998
- **TT9725 Automotive/Aviation Transportation Internship:** Possible internship sites include: Manchester Department of Public Works, auto dealerships, repair shops and other local employers.

World Languages

The vision of the World Language Department is to prepare students to be globally competent and culturally empathetic individuals with strong interpersonal communication skills in at least one of our target languages. We offer courses in Spanish, French, Italian and Chinese. In all levels of our language courses, we believe that the target language should be both the content and vehicle of instruction. Our themed curriculum is challenging and tailored to the interests and needs of our MHS students. This provides students with authentic, real-world learning experiences that are relevant to school.

In this department courses primarily emphasize these capacities from our Vision of a Graduate :

Communication through our ACTFL standards we emphasize written and verbal communication proficiency in the target language. We expect learners to communicate with a variety of audiences on a variety of real-world themed topics.

Global and Cultural Competence through our ACTFL standards we expect learners to use the target language to investigate, explain and reflect on the products, perspectives and communities of the target culture and beyond.

Co-Curricular Opportunities

- World Language teachers and the culinary arts teachers often plan opportunities for students to experience preparing and tasting cultural foods.
- The themed units and authentic projects in each WL course provide opportunities for many cross disciplinary connections and academy connections.

Community Based Learning and School Based Enterprises

- Our WL teachers and travel clubs host international travel experiences offered through professional tour agencies to Spain, France and Italy. Students are able to put their language skills into action and experience the target culture first hand. Trips are typically one week long and occur over April break every 1-2 years.

Departmental Highlight

The CT State Seal of Biliteracy: Our department is proud to offer the opportunity for students to earn the Seal of Biliteracy. Affixed on the high school diploma and transcript, the seal provides immediate recognition of a student's language and communication skills. It recognizes students who have studied and attained proficiency in English and one or more other languages by high school graduation. We believe that the Seal of Biliteracy encourages students to continue to study and value other languages and cultures. The Seal provides employers and universities with a method of identifying high school graduates with biliteracy skills. All students are eligible to receive the Seal of Biliteracy based on evidence of achieving the designated level of proficiency in English and one or more other languages by high school graduation. In the World Language Department, this is typically demonstrated through a standardized assessment given to students who successfully complete four or more years of one or more of our languages offered. MHS also offers other opportunities for native speakers of languages other than English to earn the Seal of Biliteracy.

Sequential Policy

In order for a student to remain at the same level in the following year of world language study, the student must pass the class and achieve a second semester average of C– or better.

Requirement

In order to graduate from MHS, students must successfully earn 1 credit in World Languages. However, most 4-year colleges require a two-to-three year sequence of study in a World language.

Career ideas in World Language:



Broadcast Journalist

English as a Foreign

Language Teacher

Medical Staff

(doctor/nurse/assistant)

International Brand

Consultant

Sales Executive

Translator

Human Resource

Specialist

Current full year course offerings:

*Chinese 1, 2, 3, 4, 5/
UCONN*

French 1, 2, 3, 4

Italian 1, 2, 3, 4

Spanish 1, 2, 3, 4, 5, AP

World Language Courses

CHINESE

FM2015 Chinese 1—Honors

9-12 1.0 CR

Welcome to your journey of exploring China! In this course, you will learn how to pronounce and write Chinese characters. The study of China's culture will be interwoven in all aspects of the class.

FM2016 Chinese 2—Honors

9-12 1.0 CR

Your journey of China continues this year with expanding on the pronunciation and writing of Chinese characters. In addition, we will delve deeper into China's culture and its impact on the world.

FM2017 Chinese 3—Honors

10-12 1.0 CR

In Chinese 3, we will continue our adventure into Chinese customs and expand our knowledge about culture. With the accumulation of both spoken and written language, we will perform some traditional Chinese stories and skits.

FM2018 UCONN Chinese 4—Honors

11-12 1.0 CR

In Chinese 4, we will continue our adventure into Chinese customs and expand our knowledge about culture. With the accumulation of both spoken and written language, we will perform some traditional Chinese stories and skits. **This is equivalent to Chinese 1114 at UCONN.**

FRENCH

FF2015 French 1—Honors

9-12 1.0 CR

FF3015 French 1—College Prep

9-12 1.0 CR

For first year French classes, emphasis is placed on the communication skills of listening and speaking. Students gain basic skills in reading and writing. Culture is an integral part and present throughout the entire course.

FF2025 French 2—Honors

10-12 1.0 CR

FF3025 French 2—College Prep

10-12 1.0 CR

Sequential: French 1

French 2 reinforces and builds on the listening, speaking, reading, and writing skills which were developed in French 1. Oral practice and culture are an integral part of the class.

FF2036 French 3—Honors

11-12 1.0 CR

FF3036 French 3—College Prep

11-12 1.0 CR

Sequential: French 2

French 3 reinforces and builds on the listening, speaking, reading, and writing skills which were developed in French 1 and 2. Oral practice and culture are an integral part of the class.

FF2047 French 4—Honors

12 1.0 CR

FF3047 French 4—College Prep

12 1.0 CR

Sequential: French 3

Listening, comprehension, and reading skills are stressed. Writing skills are improved through compositions on topics of general interest. Speaking skills are strengthened through discussions of material chosen by the teacher and students, and by the oral presentation of short reports on cultural items.

ITALIAN

FI2015 Italian 1—Honors

9-12 1.0 CR

FI3015 Italian 1—College Prep

9-12 1.0 CR

For first year Italian classes, emphasis is placed on the communication skills of listening and speaking. Students gain basic skills in reading and writing. Culture is an integral part and present throughout the entire course.

FI2026 Italian 2—Honors

10-12 1.0 CR

FI3026 Italian 2—College Prep

10-12 1.0 CR

Sequential: Italian 1

Italian 2 reinforces and builds on the listening, speaking, reading and writing skills which were developed in Italian 1. The course is designed to increase effective reading and writing skills. Oral proficiency and culture are an integral part of the course.

FI2037 Italian 3—Honors

11-12 1.0 CR

FI3037 Italian 3—College Prep

11-12 1.0 CR

Sequential: Italian 2

Italian 3 emphasizes oral proficiency and gives the student an opportunity to communicate in Italian. Reading and writing focuses on various cultural topics chosen by the teacher and students.

FI2044 Italian 4—Honors

12 1.0 CR

FI3044 Italian 4—College Prep

12 1.0 CR

Sequential: Italian 3

This course is designed to expand on the knowledge base acquired in the previous three years of study. There is a strong emphasis on application and demonstration of ability. The curriculum is designed to expose students to the real world applications of the language.

SPANISH

FS2015 Spanish 1—Honors

9-12 1.0 CR

FS3015 Spanish 1—College Prep

9-12 1.0 CR

This course is an introduction to the study of the Spanish language and its culture. As a result of taking this course, you will be able to express yourself and engage in simple conversations in Spanish about yourself, your school life, your personality and preferences. You will learn the language and its culture through listening, reading, writing and speaking.

FS2026 Spanish 2—Honors

9-12 1.0 CR

FS3026 Spanish 2—College Prep**9-12 1.0 CR***Sequential: Spanish 1*

Spanish 2 reinforces and builds on knowledge acquired in Spanish 1. This course expands on your ability to maintain a conversation about your family and home life, celebrations and shopping experiences, while making connections and comparisons to other Spanish cultures.

FS2037 Spanish 3—Honors**10-12 1.0 CR****FS3037 Spanish 3—College Prep****10-12 1.0 CR***Sequential: Spanish 2*

In this 3rd year course, you will go beyond learning the structure of the language to applying it in real world situations by interacting with others. You are expected to read, write and discuss various real life topics, such as community service, school life, natural disasters and the environment.

FS2044 Spanish 4—Honors**11-12 1.0 CR****FS3044 Spanish 4—College Prep****11-12 1.0 CR***Sequential: Spanish 3*

Spanish 4 aims to help students achieve a comfortable conversational level on familiar topics and to lead students towards a greater degree of independent self-expression. Students will not only learn the language and culture, but develop the skills needed to analyze and make comparisons in written and spoken language. A solid grammar base as well as speaking, reading and analytical writing skills are stressed, all within interesting real life topics.

FS2054 Spanish 5—Honors**12 1.0 CR****FS3054 Spanish 5—College Prep****12 1.0 CR***Sequential: Spanish 4*

This college course provides a thorough review of the Spanish language grammar and the systematic practice of writing. You will be presenting, writing, discussing and reading about current topics affecting our society. You will also analyze your role in these controversial changes.

FS1054 AP Spanish Language and Culture **12 1.0 CR***Sequential: Spanish 4 Honors*

This course encompasses and emphasizes aural/oral skills, reading comprehension, grammar and composition skills that have been studied in previous years. Students taking this course use Spanish to communicate on a variety of topics in a variety of ways. Students taking this course may earn three UConn credits for a grade of C or higher. **Students must register and sit for the AP exam in May, potentially earning college credit. Fee waivers are available to eligible students.**

ACCESS TO SCHOOL RECORDS

The "Education Amendments Act", also known as the "Family Education Rights and Privacy Act" requires each local school district to notify parents and eligible students, at least annually, of the following information:

The types of educational records maintained by the local school system and the persons who have access to the student records and purposes for which they have access.

PROCEDURES FOR REVIEWING AND EXPUNGING THE STUDENT RECORDS

TYPE OF RECORD	LOCATION OF RECORDS	RECORD CUSTODIAN	ACCESSIBILITY
ADMINISTRATIVE RECORDS	Individual Schools	School Principal	These records are available to certified school personnel with legitimate educational reasons.
SPECIAL RECORDS This category includes standardized testing program scores, guidance counselor files, health records, etc	Individual Schools	School Principal	These records are available to certified school personnel with legitimate educational reasons.
CLASSIFIED RECORDS This category includes psychological reports, pupil planning placement team findings, and special medical reports.	Individual Schools	School Principal	These records are available to certified school personnel with legitimate educational reasons.

Educational Policy #5125-STUDENT RECORDS, authorizes the record custodian to periodically review all data contained in the student records and to further remove and discard inappropriate or useless data. Only material that is considered pertinent and appropriate in planning a student's educational program is maintained. This policy further permits access by authorized school personnel, parents and/or guardians. Such request is to be made in writing to the record custodian. The school system will then make available qualified personnel to assist with explanation and/ or interpretations of the student record.

APPEAL PROCEDURE

The opportunity will be afforded to parents or adult students to challenge the content of the student record to insure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or the other rights of the student. The parent or adult student shall have the right to challenge the validity of any data contained herein.

INFORMAL PROCEDURES

Parents or adult students have the right to request a conference with the custodian of the records to make their objections known. If the problem is not resolved at this time, a request in writing for a hearing should be made to the Superintendent of Schools.

FORMAL PROCEDURES

A review panel established by the Superintendent of Schools will convene to hear the challenge and render a decision within two weeks after being notified of such appeal by the record custodian, unless the parent or adult student requests a delay.

If the decision is in favor of the parents, the Superintendent will promptly take steps as may be necessary to implement the decision.

In the event the decision rendered by the review panel is not satisfactory to the parents, they then shall have the right to appeal to the Manchester Board of Education. Requests for such appeal shall be in writing to the Chairperson of the Manchester Board of Education.

Parents and adult students are entitled to be represented by an advocate of their choosing.

Appeal from the decision of the Manchester Board of Education shall be to the Court of Common Pleas.

PROCEDURES FOR OBTAINING COPIES OF RECORDS

Copies of records may be obtained from the record custodian at a nominal cost. Please request in writing.

LOCATION AND AVAILABILITY OF RELEVANT FEDERAL, STATE, AND LOCAL POLICIES

Copies of federal and state laws concerning student records, along with the local board policy, are on file in the office of the Superintendent of Schools and are available for review.

NCAA INITIAL-ELIGIBILITY FOR COLLEGE ATHLETES

Students planning to enroll as college freshmen who want to participate in DIVISION I or DIVISION II athletics must be certified by the NCAA Initial-Eligibility Center. DIVISION III schools do not require students to be certified.

It is each student's responsibility as a "prospective student-athlete" to make sure the NCAA Eligibility Center has the materials needed for certification. This is an important process and lack of planning could result in not being approved to play at the college level. Students should start to track their progress beginning in their freshman year by going to the NCAA Eligibility Center website (www.eligibilitycenter.org) to access information needed to understand the Division I and Division II eligibility requirements, register with the NCAA Eligibility Center, and access individual records.

We recommend students begin the registration process no later than the spring of their junior year. To start the registration process, a student must go the NCAA Eligibility Center website (www.eligibilitycenter.org) create an account, register and file a student release form. This form, as well as the required fee, must be submitted to the Eligibility Center. Students are also required to submit their high school transcript. Once requested, an official student transcript will be submitted from the School Counseling Office.