

*Messalonskee
High School*



*Course
Selection Guide*

2010-2011

Table of Contents

Mission Statement.....	1
Section 1: Graduation Requirements/Academic Planning	
State of Maine Learning Results	3
Messalonskee High School Graduation Requirements.....	3
Guidelines for Course Selection.....	4
Planning Your High School Program.....	4
College Preparatory Courses.....	4
Considerations for Selecting Courses	5
Course Registration.....	5
Modified 4x4 Schedule	5
Section 2: Support Services	
Guidance Department Mission Statement	6
Literacy.....	6
Freshmen Academy.....	7
Full Year Courses.....	7
Students with Disabilities	7
Homeroom Time.....	7
After School Tutorial	7
Learning Center	7
Summer School.....	7
Section 3: Social, Civic, and Academic Expectations	
Attendance.....	8
Technology.....	8
Co-Curricular	9
Code of Conduct	9
Class Standing, Honor Roll, & Report Cards.....	9
Standardized Tests.....	10
PowerGrade/PowerSchool	10
Section 4: Course Offerings & Special Academic Programs	
MHS Course Offerings.....	11
Special Academic Programs.....	14
College Classes	14
Virtual High School	14
Advanced Placement Courses	14
Jobs for Maine Graduates.....	15
Alternative Education	15
Mid-Maine Technical Center	15
Section 5: Course Descriptions	
English Language Arts	16
English Electives.....	19
Mathematics	20
Mathematics Electives.....	23
Social Studies	25
Science	27
Health/Physical Education	30
Modern & Classical Language	32
Career Preparation/Technology Education	37
Visual & Performing Arts.....	38
Mid-Maine Technical Center.....	42
Virtual High School.....	46

MESSALONSKEE HIGH SCHOOL **MISSION STATEMENT AND STUDENT EXPECTATIONS**

Messalonskee High School is a center of excellence where students engage collaboratively with highly committed staff members to focus on intellectual, social, emotional, and physical development of each learner. The atmosphere is safe, nurturing, and exciting. Every student has the resources and personal support necessary to reach his or her personal best. The students, staff, and community place a premium on high achievement in all activities and emphasize the development of critical and creative thinking skills. All students are encouraged to develop intellectual curiosity, make responsible decisions, and become life-long learners.

To achieve this end, Messalonskee High School:

- enjoys a mutually supportive relationship with its community and continually honors and builds on that partnership. Community members, local agencies, businesses, and service organizations sponsor activities through which students learn the value of responsible citizenship, volunteerism, and community service. Families work with the school as full partners in supporting students to develop and realize meaningful personal goals, meet high standards of ethical conduct, and develop as life-long learners. ***(Partners in learning)***

- takes a proactive role as a member of the global community. Students and staff together learn to adapt to an increasingly complex world. Each learner develops a strong sense of his or her own self-worth, a respect for the intrinsic value of every person, and a sense of responsibility for global stewardship. ***(Personal and global stewardship)***

- maintains state-of-the-art facilities and technologies that provide a broad range of instructional resources. Comprehensive programs encourage the integration of intellectual, artistic and athletic skills in a physically and emotionally safe environment. ***(State-of-the-art facilities & programs)***

- values and nurtures an atmosphere of mutual respect, honesty, open communication, and shared commitment to excellence among all members of the school community. All members of the school community are celebrated and supported for their ongoing contributions to students' success. ***(Collaborative culture)***

Academic Expectations

Students will meet their individual goals and become independent learners through successful achievement in:

- **READING**: Successful achievement in READING is the act of simultaneously reading the lines, reading between the lines and reading beyond the lines. It involves understanding the text's basic message, making inferences and understanding the text's implied message, and judging the significance of the content.

- COMMUNICATON: Successful achievement in COMMUNICATION is the exchange of thoughts, opinions, or information through oral, written, and/or visual methods.
- PROBLEM SOLVING: Successful achievement in PROBLEM SOLVING effectively involves, identifying the problem, developing a plan or strategy for solving the problem, following through with the plan, and drawing conclusions based on the results.
- NUMERACY: Successful achievement in NUMERACY is the understanding of procedures and concepts related to the computation of numbers, the interpretation and representation of data, and algebraic and geometric relationships.

Social Expectations

Students at Messalonskee High School will:

- Assume responsibility for their actions and accept the awards and/or consequences.
- Respect themselves and others; treat others, as they would like to be treated.
- Peacefully manage and resolve conflict.

Civic Expectations

Students at Messalonskee High School will:

- Know and exercise the rights and responsibilities of citizenship.
- Contribute to the well-being of the family, school, local, and global communities: become productive members of society.

GRADUATION REQUIREMENTS/ACADEMIC PLANNING

1

State of Maine Learning Results

In a document called *The Maine Learning Results*, the state of Maine has described the essential knowledge and skills that all students must master in order to be successful in learning and in life. For further specific information please see *State of Maine Learning Results*, 1997, Maine Department of Education. This document is available at:

<http://www.maine.gov/education/standards.htm>.

Messalonskee High School Graduation Requirements

- 23 credits
- Satisfy core curriculum requirements
- Display the ability to synthesize and apply learning by achieving at the proficiency level on a curriculum research project (CRP).

All students must satisfactorily complete the core course requirements: Career Prep (.5 credit); English (4 credits); Mathematics (3 credits - students who fail to demonstrate proficiency in the knowledge and skills of Algebra will be required to take additional coursework - proficiency is defined as passing the Algebra 1 final exam); Science (3 credits); Social Studies (4 credits); Health (.5 credit), and Physical Education (1.5 credits); Fine Arts (1 credit), which may include Art, Band, Chorus, Social Issues Forum, Drama, Technology Trades (when taken for the second and third time), Web Design, and Visual Media. Each student must satisfactorily complete the equivalent of **twenty-three (23)** credits.

Not more than two credits from a summer school or an approved adult education course (senior year or with administrative approval) may be applied toward graduation requirements. The principal must approve correspondence and summer school work, in advance.

The principal, and/or his/her designee, shall review and assess the awarding of transfer credits from other schools and determine a student's status regarding the common assessments in accordance with MHS requirements. Transfer students shall follow the prescribed subjects in their course of study in this handbook. Pupils who are identified as exceptional children will receive a diploma based on the satisfactory completion of an Individual Education Plan.

A student must have accumulated at least 23 credits and all other requirements in order to participate in graduation exercises.

GUIDELINES FOR COURSE SELECTION

Courses	Credits
English	4
Math	3
Science	3
Social Studies	4
Visual/Performing Arts	1
Health	0.5
Physical Education	1.5
Career Prep (JMG 9-10)	0.5
Electives	5.5
Curriculum Research Proj.	Completed
Total	23

Students should select courses based on their talents, interests, future plans, and admission requirements at post-secondary schools. Here are some guidelines to follow when selecting courses:

Academic Load:

Students must be scheduled for a minimum of three courses each day. Students taking Mid-Maine Technical Center classes must attend at least one course each day at the high school.

Planning Your High School Program:

All students at Messalonskee High School are encouraged to explore and pursue some type of post-secondary education. Students who plan to apply to a four-year college or university need to follow the college preparatory curriculum outlined below. Students applying to community colleges, two-year business colleges/programs, or other professional training schools need to check specific admissions requirements of those schools and programs. Some community college programs fill up quickly, and admission to them can be very competitive. Students are encouraged to start the college planning process early, and consult with their counselor regarding planning and specific college admission criteria. All students are encouraged to explore as many different educational course opportunities as their schedule will allow.

College Preparatory Courses:

Messalonskee High School provides all students with course work that is appropriately challenging and will assist each student in reaching their post secondary educational goals. Most colleges and universities require high school students to successfully complete a rigorous high school curriculum for admission. Though the standards vary from school to school, it is generally expected that students applying to the University of Maine system complete the following minimum criteria:

- Four years of English that incorporate a variety of texts (fiction, non-fiction, essays, memoirs, journalism) and that emphasize expository and analytical writing skills.
- Four years of math courses that include at least Algebra I and II, Geometry, and a senior year college preparatory math course that provides a solid foundation in quantitative and algebraic reasoning. For students planning to major in mathematics, science, or a technical or professional field that requires advanced math skills, a pre-calculus, or calculus course is strongly recommended.
- At least three years of a laboratory science that includes the study of biology, chemistry, and physics. Science courses should emphasize the writing of technical reports and the quantitative representations and analysis of data. Students who plan to enter a scientific field should complete four years of science.

- At least three years of history and social science in course work that emphasizes the reading of primary and secondary texts, the writing of analytic and expository essays, and the use of quantitative and research findings. Students who plan to enter a social science field or major in social studies should take four years of social studies.
- At least two years of study in the same language other than English. (Three semesters at MHS)
- A challenging curriculum consistent with the student's talents.
- A strong academic program up to and including the senior year.

When selecting courses each student should outline the remainder of his/her high school program with his/her counselor. Planning can ensure a meaningful program that reflects the student's individual needs and increases his/her options upon graduation.

Considerations for Selecting Courses:

- Match course selection with personal interests, talents, and future plans in mind.
- Students are encouraged, if scheduling and space permits, to explore a wide range of course offerings by choosing elective courses in a variety of areas.
- Recognize that some programs offered at community or technical colleges require algebra, geometry, chemistry, and/or physics for admission.
- Explore the great variety of post-secondary schools and programs that are available. Students should see their counselor to prepare for the admission process to a post-secondary institution.
- "Kuder" is an online computer program that can provide valuable information regarding the education needed to pursue a particular career. Students may find this information helpful when selecting their course of study. Students are currently using this program in the Jobs for Maine Graduates (JMG) courses and the intent is to further implement this program during the homeroom period.

COURSE REGISTRATION

Students start the registration process during the month of January each year. After consultation with parents, students fill out a course registration form listing all courses they wish to take in the following year. During the months of February and March students should schedule a meeting with their counselor to discuss the list of courses they have signed up for. That list is sent home in March for parents to review. During the months of April and May the schedule is built based on the requests that students have made; consequently, it is very important that students sign up for all the courses they wish to take and make any necessary changes prior to the schedule being built. Students will receive a schedule for the upcoming year during the summer.

MHS MODIFIED 4x4 SCHEDULE

Since the school year 2002/03, Messalonskee High School has utilized a modified semester block schedule, commonly called a "4x4". In this type of schedule most classes are offered in approximately eighty (80) minute blocks four times a day, and are completed in one semester (one half year). Students may take classes totaling up to four full credits each semester, for a total of eight per year. Unless otherwise noted in the course description, courses meet every day for a full semester.

SUPPORT SERVICES

2

The Guidance Department at Messalonskee High School is structured to help students explore information and receive assistance in all aspects of their educational and personal experience. Students are encouraged to use the resources of the guidance office regarding selection of their high school course of study, career information, college information (4yr/2yr), technical colleges and professional/trade schools, military career information, and preparation to enter the workforce. The guidance counselors also offer services to students needing information or assistance with concerns of a personal nature. Students are encouraged to stop by the guidance office any time to schedule an appointment with their counselor.

Messalonskee High School Guidance Department

Diane Damone - Guidance Counselor
Lisa Hallen - College and Career Specialist
Brenda Holt - Director of Guidance
Wendy Spaulding - Guidance Counselor
Brenda Stevens - Registrar
Kathleen Atwood - Secretary
Penny Weibel - Secretary
Phone - 465-4989

Guidance Department Mission Statement

At Messalonskee High School, the guidance department views each student as an individual with unique needs, interests, and abilities. We believe that the learning experience is linked directly to the personal, social, emotional, educational, and cultural needs of the student.

Our primary goal is to assist students in the acquisition of knowledge and skills that will enable them to achieve greater independence and self-knowledge in the areas of academic and career planning, decision-making, interpersonal and social skills, and self exploration.

We believe that all students should be working toward the creation of a plan that will enable them to successfully compete in today's competitive job market. This plan may include some type of college, military experience, apprenticeship/training and/or direct entry into the labor force. We also believe that students need to realize that the demand for unskilled labor has been drastically reduced over the years, and in order for them to be competitive, some type of additional training beyond and/or supplemental to their high school experience is a necessity for all high school graduates.

Literacy

For the past several years teachers and administrators have been implementing a plan to improve the literacy of the students at Messalonskee High School. A reading assessment is administered to all freshmen and sophomores and these results provide teachers with individual student information to tailor instruction. Additionally, many teachers at MHS have been involved with ongoing professional development in the field of Adolescent Literacy and numerous strategic interventions that support the Maine Learning Results are widely used in the classrooms to help students become more proficient readers and writers.

Freshman Academy

In order to make the transition a successful one for the freshmen, a group of teachers meet weekly to discuss the literacy demands of the freshman curriculum, how they can personalize learning for the students, and address academic and behavior issues that may arise. As part of the Freshman Academy, senior mentors meet with ninth graders at least once a week in their homerooms to assist students with their transition to the high school.

Full Year Courses

Full year courses in Algebra, Geometry, and Freshman Literacy are offered to accelerate students' skills so that they are more able to meet the high school level learning standards. Placement in these courses is based on reading and math assessments and teacher recommendations.

Students with Disabilities

Messalonskee High School provides a full range of special education services to students with disabilities. If a student is identified as having a disability, a team including the student, the parent(s), a special education teacher, a regular education teacher, an administrator and others as needed develops an individualized education plan (IEP). Each student with a disability is assigned a case manager who is responsible for monitoring the implementation of the IEP.

Homeroom Time

A homeroom time occurs daily for approximately twenty (20) minutes. Homeroom teachers take attendance, read announcements, and may facilitate discussions regarding school policies and procedures. The focus is to build relationships between teachers and students that promote learning, positive behaviors, and involvement in the school community. Students are required to attend homeroom every day.

After School Tutorial

Messalonskee High School staffs an after school tutorial program two days a week on Wednesday and Thursday afternoons. A late bus is available to transport students who choose to stay for this program. Students who are referred by their teachers for missing work or for additional instruction may attend. A student who has an incomplete or missing work may be required to attend until the work is complete. As a parent, if you are interested in having a student attend the tutorial sessions, please contact your student's teacher or the guidance office.

Learning Center

Students may obtain tutorial help by signing out to the Learning Center. A teacher is available to provide academic help or to monitor make-up work.

Summer School

Messalonskee High School offers a regional summer school program in selected courses, which allows students opportunities to recover credits for failures received in courses that were scheduled during the regular school terms.

3

SOCIAL, CIVIC, AND ACADEMIC EXPECTATIONS

It is the intent of the Messalonskee School District not to discriminate on the basis of race, color, creed, sex, national origin, marital status, parental status, age, or handicapping condition in any academic, co-curricular, extracurricular, research, occupational training, or other educational programming or activity sponsored by Messalonskee High School.

The RSU #18 Board of Directors has developed policies that describe rights and responsibilities and protect all members of the learning community from discrimination, harassment. The policies can be found on the District web site at www.rsu18.org.

Attendance

Regular attendance is an important factor in academic success. In a high school schedule daily attendance is essential, as many classroom activities cannot be duplicated for individual students who are absent. Classroom instruction, group work, and the discussion and interactions that take place are important components of each course that cannot be replicated through make-up work. For these reasons, all students are expected to be in school, on time, and to attend all assigned classes each day.

Each academic department/teacher may establish course expectations that relate attendance/tardiness to a participation grades. This portion of a student's final grade may count a minimum of 5% but may not exceed 15%.

State law designates five reasons why a school may excuse a student's absence. These five reasons are:

- Personal illness
- An appointment with a health professional that cannot be made outside the school day.
- Observance of recognized religious holidays when the observance is required during the school day.
- A family emergency (verification may be required).
- A planned absence for personal or educational purposes that has been approved by a school administrator in advance.

Technology

Success in post secondary education and in today's world is increasingly dependent on the use of technology. It is expected that students at MHS will effectively use a variety of technology techniques to produce high quality work and to interact with the world, staff and other students. Each student will be issued a laptop computer for use in school and out of school.

Because technology allows access to information and communication that may not be appropriate in the school setting, the Board of Directors has established rules and procedures to govern the use of technology and the responsibilities of the student user. The rules and procedures can be found in the following Board policies: Student Computer and Internet Use and Student Computer and Internet Use Rules.

Students and parents/guardians must sign a form indicating full understanding of the rules governing the use of technology before access to any technology at MHS can be granted.

Co-Curricular and Extra –Curricular Activities

MHS offers a wide variety of athletic programs and extra-curricular activities for students. All students are strongly encouraged to participate in at least one activity.

Code of Conduct

The following expectations for student behavior are fundamental to a safe, orderly, and respectful school environment. Each student should:

- Be courteous to fellow students, staff, and visitors.
- Respect the rights and privileges of other students and school staff.
- Obey all Board policies and school rules governing student conduct.
- Follow directions from school staff.
- Cooperate with staff in maintaining school safety, order, and discipline.
- Attend school regularly.
- Meet school standings for grooming and dress.
- Respect the property of others, including school property and facilities.
- Refrain from cheating or plagiarizing the work of others.
- Refrain from vulgarity, profanity, obscenity, lewdness, and indecency.

Class Standing, Honor Roll & Report Card

Freshman	Successful completion of Grade 8
Sophomore	Minimum of 6 earned credits
Junior	Minimum of 12 earned credits
Senior	Minimum of 18 earned credits

The above listed credit guidelines project a positive timetable for graduation at the end of four years. Students who are not successful in passing required courses or in attaining credits will experience difficulty in meeting the graduation requirements, and may have to continue for a fifth year, or seek alternate routes for completing their secondary education.

Honor Roll:

High Honors/Distinction:	A Grade Point Average of 93-100
High Honors:	A Grade Point Average of 87-92
Honors:	A Grade Point Average of 83-86

A grade below 70 (C-) or I for an incomplete grade makes a student ineligible for Honor Roll recognition.

Report Cards:

Report cards are issued four times a year. The mark in each subject is reflected by a numerical grade showing student scholarship. The following is an explanation of the grades:

Letter Grade	Acknowledgement
90-100 (A)	Superior
80-89 (B)	Above Average
70-79 (C)	Average
60-69 (D)	Below Average
0-59 (F)	Failure – NO Credit

Standardized Tests

Students take a number of standardized tests during high school. State law mandates that we administer PSAT's and SAT's. Other testing that may be administered is decided at the local level. These tests are designed to help the student, the school, and parent/guardian understand and increase student performance and prepare for the future.

Common standardized tests:

PSAT administered to all students during both the sophomore and junior year.

SAT administered to all juniors in May.

PowerGrade/PowerSchool

The Messalonskee School District allows parents/guardians to receive an access code and review student grades at any time from home over the Internet via PowerSchool. Student performance can be monitored closely. The program will also describe assignments and quiz, test, and project grades and other learning activities. Since it is a web-based system, any parent with a computer can monitor student progress. The access codes are available through the guidance office and the main office a MHS. The program is student specific and will also connect with the e-mail address of each teacher on a student's schedule. Codes are not given over the phone or through email.

4

COURSE OFFERINGS AND SPECIAL ACADEMIC PROGRAMS

Following is a list of courses that may be offered for the 2010-2011 school year. Courses that are worth ½ credit meet for a quarter every day or for a semester every other day. One-credit courses, meet every day for a semester. Two credit courses meet every day for the whole year.

MESSALONSKEE HIGH SCHOOL LIST OF COURSE OFFERINGS

Course	Credit	Year(s) Offered
CAREER PREPARATION/TECHNOLOGY		
JMG 9/10	½	9-10
JMG	1	10-12
Technology Trades **	½	9-12
Visual Media I*	½	9-12
Visual Media II*	½	9-12
Web Design using Dreamweaver*	½	9-12
Student Tech Team	1	9-12
Advanced Placement Computer Science A	2	10-12
ENGLISH		
Freshman Full Year English	2	9
Freshman English	1	9
Sophomore English	1	10
Junior English	1	11
Communication Arts	1	11-12
College Composition	1	11-12
American Literature & Composition	1	11-12
British Literature & Composition	1	11-12
Advanced Placement Literature and Composition	2	11-12
Advanced Placement Language and Composition	2	11-12
Writing for College and Beyond	1	11-12
The English Language & Shakespeare	1	11-12
Poetry and Philosophy	1	11-12
Creative Writing	1	9-12
Visual Media I and II*	½	9-12
Drama I	1	9-12
MATHEMATICS		
Pre-Algebra	1	9-12
Algebra I (Full Year)	2	9-12
Algebra I (Semester)	1	9-12
Geometry (Full Year)	2	9-12
Geometry (Semester)	1	9-12
Algebra II Part A	1	9-12
Algebra II Part B	1	9-12
College Algebra	1	11-12
Algebra II (Semester)	1	9-12

Course	Credit	Year(s) Offered
Statistics	1	10-12
Pre-Calculus	1	10-12
Accelerated Pre-Calculus	1	9-12
Calculus	1	10-12
Advanced Placement Computer Science A	2	10-12
Advanced Placement Statistics	2	10-12
Advanced Placement Calculus AB	2	10-12
Advanced Placement Calculus BC	1	11-12
Robotics	1	9-12
Pre-Engineering	1	9-12
SAT Prep	½	10-12

MODERN AND CLASSICAL LANGUAGES

French		
Beginning French (Stage 1)	1	9-12
Beginning French (Stage 2)	1	10-12
Intermediate French (Stage 1)	1	10-12
Intermediate French (Stage 2)	1	11-12
Advanced French	1	11-12
Latin		
Beginning Latin (Stage 1)	1	9-12
Beginning Latin (Stage 2)	1	10-12
Intermediate Latin (Stage 1)	1	10-12
Intermediate Latin (Stage 2)	1	11-12
Advanced Latin	1	11-12
Greek		
Greek Literature I	1	11-12
Greek Literature II	1	11-12
American Sign Language		
American Sign Language I	1	9-12
American Sign Language II	1	9-12
Spanish		
Beginning Spanish (Stage 1)	1	9-12
Beginning Spanish (Stage 2)	1	10-12
Intermediate Spanish (Stage 1)	1	10-12
Intermediate Spanish (Stage 2)	1	11-12
Advanced Spanish	1	11-12

PHYSICAL EDUCATION AND HEALTH

Health	½	10
Personal Fitness and Sport	½	9-12
Dance	½	9-12
Self-Protection and Assault Prevention	½	9-12
Wellness: In Search of a Healthy You	½	9-12
Coaching/Peer Teaching	½	10-12
First Aid/CPR	½	10-12
Weight Training and Sports Nutrition	½	10-12

Course	Credit	Year(s) Offered
SCIENCE		
Earth Science	1	9-12
Biology	1	9-12
Applied College Prep Chemistry	1	11-12
College Prep Chemistry A	1	10-12
College Prep Chemistry B	1	10-12
Applied College Prep Physics	1	11-12
College Prep Physics A	1	11-12
College Prep Physics B	1	11-12
Physical Science	1	10-12
Environmental Science	1	11-12
Human Anatomy & Physiology	1	10-12
Advanced Placement Biology	2	11-12
SOCIAL STUDIES		
World History I	1	9
World History II	1	10
U.S. History 1	1	1-12
U.S. History 2	1	11-12
Advanced Placement U.S. History	2	11-12
Advanced Placement European History	2	10-12
Psychology	½	10-12
Law	½	11-12
Civics	1	10-12
VISUAL AND PERFORMING ARTS		
Advanced Art*	1	10-12
Intermediate Art*	1	10-12
Beginning Art*	1	9-12
Book Arts*	½	9-12
Craft Techniques*	½	9-12
Digital Art and Design*	½	10-12
Digital Photography*	½	9-12
Drama 1*	1	9-12
Drawing*	½	9-12
Graphic Art & Design*	½	9-12
Music, Instrumental and Band*	1	9-12
Music, Vocal and Choral*	1	9-12
Painting*	½	9-12
Pottery*	½	9-12
Photo Stories*	½	9-12
Metal Sculpture*	½	9-12
Sculpture*	½	9-12
Speech and Debate*	1	9-12
The Art of Digital Photography*	½	9-12
Musical/Audio Productions*	1	9-12
Hands-On Art History*	½	9-12

* Satisfies ½ fine arts credit

** Fine arts credit can be earned after the student has completed more than ½ credit of Tech. Trades

SPECIAL ACADEMIC PROGRAMS

College Classes

Students are encouraged to enroll in classes at local colleges to supplement their high school program. Kennebec Valley Community College, Thomas College, the University of Maine at Augusta, the University of Maine at Farmington, Colby College, and the University of Maine at Orono offer students opportunities to take classes on a free or reduced tuition basis. Research supports the theory that when a high school student takes a college course before graduating from high school, they are more likely to successfully attend some form of post-secondary education. Many colleges also offer students on-campus summer programs. Students should meet with their counselor to get more information on any of these opportunities.

In addition to the courses students may be eligible to take at nearby colleges, MHS has partnered with KVCC to offer two dual enrollment courses at MHS; College Algebra and College Composition. Students must meet KVCC's placement and admissions criteria to be eligible for either course and must take the Accuplacer (an online exam) before taking the course. Students who earn a C or better will earn both high school and KVCC credit for the course. All students will have the course listed on their MHS and KVCC transcripts. Offering this course is dependent upon annual budget considerations and the continuation of our agreement with KVCC. Students are responsible for determining if/how the course may transfer to other colleges/universities.

Virtual High School

The mission of Virtual High School is to develop and deliver standards-based, student-centered online courses to expand students' educational opportunities and 21st century skills and to offer professional development to teachers to expand the scope and depth of their instructional skills.

Messalonskee HS has partnered with other area high schools to offer VHS classes to our students. Virtual High School classes are for elective credit only, and are run 100% online. Courses range from Animation to Forensics to World Conflict, in addition to hundreds of other options across disciplines. Students must have dependable Internet access and should have strong time management/organizational skills. VHS classes will appear on a student's transcript, and their grade will be counted in a student's overall GPA. For more information about VHS courses, please see Mr. A. Haynie, a guidance counselor, or go to www.govhs.org. There are a limited number of slots each semester.

Advanced Placement Courses

Students have the opportunity to enroll in a number of Advanced Placement (AP) Courses. Developed by a committee of college faculty and AP teachers, each AP course covers the breadth of information, skills, and assignments found in the corresponding college course. Each AP course has a corresponding exam that participating schools worldwide administer in May. These weighted courses provide students with a highly rigorous experience that will prepare them for the college setting. All of our AP course syllabi have been audited and approved by the College Board. More information on AP courses is available at www.collegeboard.com. Due to enrollment numbers, some of our AP courses may be offered on an every other year basis.

Jobs for Maine's Grads

The JMG program provides courses taught by a job specialist. Students learn employment-based competencies, have opportunities for membership in the career association, participate in community service, and receive academic support. (See course description in Career Prep section.)

Alternative Education

Alternative Education is provided for students who, for a variety of reasons, do not experience success in the regular school program. The Alternative Education Program is structured to provide a disciplined, individualized, and alternate method of delivering instruction in a small group setting. Application for this program may be made through a counselor or administrator. Placement is based on need, availability of space in the program, a student's willingness to participate, parent involvement, and the recommendation of the Alternative Education Team.

Mid-Maine Technical Center Courses

Mid-Maine Technical Center is a career/technical center located on the campus of Waterville High School. Mid-Maine Tech offers twenty-four technical courses to area high school students. All courses have been approved for 3 high school graduation credits. Mid-Maine Technical Center courses are offered in two blocks, morning and afternoon. While specific arrival/departure times vary slightly from school to school, the general schedule is as follows: AM Block: 8:30 – 10:45 and PM Block: 11:20 – 1:35

Participating high schools include: Lawrence, Messalonskee, Waterville, and Winslow High Schools. Students attend Mid-Maine Technical Center as part of their regular academic schedule, while taking academic courses at their sending school. Bus transportation to and from Mid-Maine Tech is provided by each school district. Enrollment in Mid-Maine Technical Center courses is arranged through the high school Guidance Department. There is no cost to the student for Tech Center courses.

Integrated credits may also be earned for high school graduation through completion of some Mid-Maine Tech courses. Prior approval from a guidance counselor must be obtained before seeking academic credit. Students who pass the academic requirements and technical program receive two credits for their technical program and one credit in fine arts, math, physical education, or science.

Formal agreements with community colleges provide Mid-Maine Tech students with the opportunity to earn college credits through Mid-Maine Tech courses of study. Students in eligible courses are simultaneously enrolled in Mid-Maine Tech and a Community College. Upon completion of course requirements, students are issued a college transcript in addition to their high school grade reports. This is referred to as a dual credit program.

All courses at Mid-Maine Technical Center have achieved National Program Certification or are using Maine State Licensing standards, which provides the opportunity for students to earn over fifty (50) industry-recognized certification.

COURSE DESCRIPTIONS

5

You will find a comprehensive list of courses in this section of our course selection guide. Enrollment numbers, staffing, and facility availability are all considerations when selecting the courses scheduled each year. Even though a course may appear in the course selection guide, it may not be offered every year.

Course Level Information

Some courses are designated in two levels. The level designations are CP4 and CP2. The letters CP stand for College Preparatory. CP4 courses are designed to prepare students for admission to four-year colleges and universities. In these courses, students are expected to work at a level that exceeds the standards of the Maine Learning Results. CP2 courses are designed to prepare students for admission to two-year and community colleges, as well as for additional occupational and educational training opportunities and military enlistments. In these courses, students are expected to work at a level that meets the standards of the Maine Learning Results.

During the registration process each year, teachers recommend students for a specific academic level. Questions regarding placement may be addressed to a student's teacher, or may be facilitated through the counseling department or high school administration.

English/Language Arts

Freshman English (CP4): 111

Grade 9

Students read and analyze a variety of short stories, novels, poems, and plays. They improve their writing through a range of short themes and longer essays, emphasizing grammar, coherent paragraphing, and formal use of evidence.

1 credit

Freshman English (CP2): 112

Grade 9

This course stresses the broadening and strengthening of students' skills in all areas of literacy. Students read in a variety of literary genres: novels, short stories, and plays. Students focus on the development of arguments, and on coherent paragraphing, sentence variety, vocabulary, and the use of correct grammatical structure.

1 credit

Freshman English 9: 113-114

Grade 9

This course is designed to improve students' ability to read and interpret a wide variety of fiction and non-fiction. The course emphasizes vocabulary, reading comprehension, writing, and study skills. This course will count as one required English credit and one elective credit. This course meets every day for two semesters.

2 credits

Sophomore English (CP4): 121

Grade 10

This course focuses on the close study of great works of European and other Western literature. The course is linked with the writing process through instruction in grammar, analytical essays, and creative projects. The course also includes instruction in oral expression.

1 credit

Sophomore English (CP2): 122**Grade 10**

This course is divided into four major parts: grammar, writing, reading novels and plays, and vocabulary. The course also includes instruction in oral expression. The composition section of the course stresses the coherent unified essay.

1 credit**Junior English (CP2): 132****Grade 11**

This course will provide continued support for students needing help developing fundamental skills in reading and writing. Instruction will emphasize improving reading comprehension of both fiction and non-fiction, developing vocabulary, and improving basic writing skills, with the goal of helping students to prepare to succeed in the senior English offerings and in their post-secondary studies. Readings in fiction will be drawn from American literature, and readings in non-fiction will focus on issues essential to students' adult participation in our democracy.

1 credit**American Literature and Composition: 146****Grades 11-12**

This four-year college preparatory course focuses on the close study of great works of American literature, including *The Great Gatsby* and *The Catcher in the Rye*. Additional reading may include other novels, short stories, narrative and lyric poems, plays, and essays. Writing assignments, primarily in response to the literature studied, encourage students to practice the clear, logical, coherent, stylistically appropriate expository prose they might use in any college course.

1 credit**British Literature and Composition: 147****Grades 11-12**

In this four-year college preparatory course, students analyze selected British literary works, which may include narrative and lyric poems, plays, essays, short stories, and novels. Writing assignments, primarily in response to the literature studied, encourage students to practice the clear, logical, coherent, stylistically appropriate expository prose they might use in any college course. Juniors planning to take AP Literature in the senior year are encouraged to choose a different option, because of an overlap of curriculum.

1 credit**AP Language and Composition: 136/137****Grades 11-12**

Equivalent to the composition course most college freshmen are required to take AP Language and Composition is a rigorous course of study designed for highly motivated juniors and seniors who wish to study at the college level while still in high school. Successful students become effective readers and writers of non-fiction prose through the study of a wide range of print and visual compositions including essays, articles, editorial speeches, photographs, and advertisements. As a result of extensive practice interpreting print and visual texts for their rhetorical effects, analyzing the language that produces those effects, composing written arguments, personal essays, analyses, and visual texts, students develop the ability to engage actively and intelligently in the global conversations that inform thinking and inspire action. The course requires all students to complete summer work, which will be assigned by the instructor at the end of the current academic year. All students take the Advanced Placement examination in May. This is a two-credit course that meets every day for two semesters.

2 credits

Advanced Placement Literature and Composition: 139/140 **Grades 11-12**

This course is for strong English students who want the challenge of a college English class while still in high school. Students read and analyze a wide range of British and American literature, from *Beowulf* to contemporary works. In class discussion, analytical essays, and other writing assignments, students develop the range, the subtlety, and the precision of their responses to imaginative literature-- poetry, prose fiction (both novels and short stories), plays, and literary non-fiction. At the end of the year, students are required to take the Advanced Placement Examination in English Literature and Composition. This course requires summer reading, available from the instructor at the end of the current academic year. This course meets every day for two semesters.

2 credits

College Composition: 135 **Grade 12**

This is offered as a dual-enrollment course. College Composition emphasizes critical reading and thinking as part of the process of producing clear, logical, and effective writing. This course assumes students' understanding of the basic components of writing, including mastery of the basic structures of sentences and basic grammar. Students practice writing skills and apply them through numerous writing assignments. In addition, students are required to do research and write a research paper. Students completing the course with a grade of C or above will receive College Composition credit from Kennebec Valley Community College. Students must pass the Accuplacer exam as a condition for registration.

1 credit

Writing for College and Beyond: 148 **Grades 11-12**

This is a composition course, similar to the dual-enrollment College Composition course (see the description above), designed for students intending to attend two-year community college or vocational programs. Unlike College Composition, the course does not require, as a condition for registration, that students pass the Accuplacer exam. Topics covered in the course will be similar to those covered in College Composition, without the required research paper.

1 credit

Communication Arts: 149 **Grade 12**

This course is a project-based, college preparatory senior English option that blends experiences in research, writing, reading of nonfiction and literature, and multimedia production to provide heterogeneously grouped students with opportunities to develop the literacy skills needed for success in the 21st century. The research-supported approach will provide multiple routes for seniors to demonstrate achievement of the goals of the English curriculum, while at the same time offering access to out-of-classroom audiences and experiences.

1 credit

English Language & Shakespeare: 109 **Grades 11-12**

The English Language portion of this course will provide students with an opportunity to study in detail the richness and complexity of our language, both as we write and speak it today and as it has developed over time, from the Middle Ages to the present. Students will broaden their vocabularies, develop their understanding of written style, and develop a thorough understanding of grammar, with an emphasis on using this knowledge to improve their reading and their writing. The Shakespeare portion provides students with the opportunity to do close analytical reading of two of William Shakespeare's greatest plays, examining language, imagery, and the development of character and ideas. Reading

includes not only the plays themselves, but also a variety of non-fiction: essays analyzing and commenting on the plays, reviews of productions of the plays (including films), and essays revealing the lasting impact the plays have had on individual people and our culture as a whole.

1 credit

Poetry/Introduction to Philosophy: 108

Grades 11-12

The reading and writing of poetry and songs portion of this course provides students with and opportunity to do detailed, rigorous, reading of poetry and songs and to make both analytical and creative responses to texts they read, including the work of established poets and songwriters and their own work. By reading, analyzing, and writing about both primary texts (poems and songs) and secondary texts (expository, argumentative essays about the primary texts), students will develop vocabulary and reasoning and writing skills that will make them more adept at all kinds of reading and writing. In the areas of the course dealing with songs, no previous musical knowledge is needed. Students who wish to set their work to music are encouraged, but not required to do so. The introduction to the philosophy portion of this course provides students with grounding in philosophical reasoning, for the purposes of improving their own written and spoken arguments and increasing their understanding of the written and spoken arguments of others. Students will study the fundamentals of logic and explore a wide range of philosophical ideas as they appear in non-fictional and literary texts and in films.

1 credit

ENGLISH ELECTIVES

Creative Writing: 101

Grades 9-12

In this course designed for people with a strong interest in writing, students will develop their writing skills through specific writing assignments and independent projects, while working in a variety of genres, including poetry and short fiction. Depending on the interests and the composition of the class, students might also write personal essays and/or plays. Because every writer must learn, in part, from the masters of the craft, reading assignments will be required.

1 credit

Visual Media I: 635

Grades 9-12

Students will work in teams to create four to five short films usually on self-selected topics to develop skills in shooting, lighting, sound, and editing techniques. Instruction covers camera handling, effective communication, and design for multimedia. Student films are often screened in school film festivals; some projects become entries in national film competitions or develop Internet audiences. Satisfies ½ Fine Arts requirement. This course meets every day for one quarter.

½ credit

Visual Media II: 638

Grades 9-12

Using professional-level work as models, students develop proficiency in advanced camera techniques and focus on lighting and sound to create highly developed fictional films and in-depth documentaries centered on local people and issues. Building on techniques practiced in Visual Media I, students use advanced design and production techniques as well as more complex video editors to create work that engages audiences, both in school festivals and in national competitions. This course requires that students work in teams, show initiative, and a willingness to experiment in creative approaches to filmmaking. Satisfies ½ Fine Arts requirement. This course meets every day for one quarter.

Prerequisite: Visual Media I.

½ credit

Mathematics is increasingly important in our society. Many changes are occurring at the state and national level, which necessitate greater emphasis on a standards-based mathematics curriculum. The mathematics department is committed to success for all students and has endeavored to create pathways, which not only meet the needs of the individual, but also provide support for success. All students entering the Messalonskee High School Mathematics program will be appropriately placed using a placement test. We strongly recommend that all students complete mathematic classes up to and including a minimum of Algebra Two, in order to meet the standards specified in the Maine Learning Results. Please contact the Mathematics Department and/or Guidance Office if you have concerns at any time about your child's progress.

Pre-Algebra: 214

Grades 9- 12

This course addresses students who need additional development in basic mathematics content skills, such as number sense, computation and problem solving. In addition, the course emphasizes the development of life skills, such as work ethic, organization, meeting deadlines and attendance. Enrollment is by teacher recommendation, placement test and Mathematics Dept Chair approval only.

1 credit

Algebra One (Full Year) (CP4): 215/216

Grades 9-12

This full year Algebra One course is tailored to the student who requires additional time to master concepts in mathematics. Topics include the real number system, solving equations, inequalities, absolute values, matrices, linear, exponential and quadratic functions, polynomials, data analysis, probability and statistics. The use of hands-on activities, projects and technology will be threaded throughout, as well as tutorial and supervised study. Enrollment is by placement test. An Algebra One Proficiency exam is given at the end of the course in order to comply with School Board Policy. This course meets every day for two semesters. Successful completion of the first semester is required in order for the student to continue with the second semester. Students are prepared to continue with Geometry and/or Algebra Two.

2 credits

Algebra One (Semester) (CP4): 217

Grades 9-12

Semester Algebra One includes topics such as the real number system, solving equations, inequalities, absolute values, matrices, linear, exponential and quadratic functions, polynomials, data analysis, probability and statistics. Use of technology is threaded throughout the course. Enrollment is by placement test. An Algebra One Proficiency exam is given at the end of the course in order to comply with School Board Policy. Students are prepared to continue with Geometry and/or Algebra Two.

1 credit

Geometry (Full Year) (CP4): 203/204

Grades 9-12

This full year Geometry course is tailored to the student who requires additional time to master concepts in mathematics. Topics include an introduction to the basic properties of plane and solid figures such as triangles, quadrilaterals, polygons, circles, polyhedron, basic trigonometry, area, volume, coordinate and transformational geometry. The concepts

of deductive and inductive proof are studied. Geometer Sketchpad and the use of hands-on activities, projects and technology will be threaded throughout, as well as tutorial and supervised study. Enrollment is by teacher recommendation. This course meets every day for two semesters. Successful completion of the first semester is required in order for the student to continue with the second semester. Students are prepared to continue with Algebra Two. **Prerequisite: Algebra One** **2 credits**

Geometry (Semester) (CP4): 219

Grades 9-12

The focus of this course includes an introduction to the properties of plane and solid figures such as triangles, quadrilaterals, polygons, circles, polyhedron, basic trigonometry, area, volume, coordinate and transformational geometry. The concepts of deductive and inductive proof are studied. Geometer Sketchpad and the use of hands-on activities, projects and technology will be threaded throughout. Students are prepared to continue with Algebra Two. **Prerequisite: Algebra One** **1 credit**

Algebra Two-Part A (CP4): 258

Grades 9-12

Algebra Two-Part A is tailored to the student who requires additional time to master concepts in mathematics. This course is the first half of a two-part Algebra Two course. Completion of both Algebra Two-Part A and Algebra Two Part B is required in order to cover all topics required in Algebra Two. Topics in Algebra Two-Part A include basic arithmetic, the real number system, linear, quadratic, polynomial functions, matrices, complex numbers and extensive attention to word problems involving real life applications and higher order thinking skills. Hands-on activities, projects and technology are used throughout the course. Curriculum Research Projects are available upon request. Successful completion of Algebra Two-Part A is required in order for the student to continue with Algebra Two-Part B. **Prerequisite: Algebra One** **1 credit**

Algebra Two-Part B (CP4): 259

Grades 9-12

Algebra Two-Part B is tailored to the student who requires additional time to master concepts in mathematics. This course is the second half of a two-part Algebra Two course. Algebra Two-Part B is designed to complete the Algebra Two Course. Topics include SAT review, logarithmic, exponential functions, conics, sequence, series, trigonometry, data analysis, probability and statistics, and extensive attention to word problems involving real life applications and higher order thinking skills. Hands-on activities, projects and technology are used throughout the course. Curriculum Research Projects are available upon request. **Prerequisite: Algebra Two-Part A** **1 credit**

Algebra Two (Semester) (CP4): 218

Grades 9-12

This course will focus on problem solving with extensive attention to word problems involving real life applications and higher order thinking skills. Topics include the real number system, functions, matrices, complex numbers, conics, logarithmic and exponential functions, data analysis, probability and statistics. Hands-on activities, projects and technology are used throughout the course. Curriculum Research Projects are available upon request. **Prerequisite: Algebra One** **1 credit**

College Algebra (CP4): 206**Grades 11 or 12**

This course is a dual-enrollment course designed in coordination with Thomas College standards and will allow students who pass the course with a grade of C or better to earn college credits. The focus of this course is on problem solving and combines traditional problem-solving methods and modern graphing technologies. Students will be asked to solve problems modeled by a variety of functions (linear, quadratic, absolute value, polynomial, exponential and logarithmic). The central theme of this course is real-world applications from traditional disciplines such as the physical sciences and engineering, as well as, applications from business, economics, social sciences, life sciences, health sciences, sports and other areas of student interest. This course strives to provide a solid foundation that will build success in future studies of mathematics while concurrently providing students with college experience and credits while in a high school setting.

Prerequisite: Junior or Senior Standing and Completion of Algebra Two

1 credit**Statistics (CP4): 229****Grades 10-12**

This course is an introduction to basic Statistics. It will include descriptive statistics, sampling techniques, data patterns, elementary probability, normal distributions and inference. Real world applications using technology will be an integral part of this course. A graphing calculator is required; the TI-83 or TI-84 is recommended.

Prerequisite: Completion of Algebra Two

1 credit**Pre-Calculus (CP4): 226****Grades 10-12**

This course is designed for college-bound juniors and seniors intending to study calculus. Topics include families of curves, functions, graphing, logarithmic and exponential functions, trigonometry, data analysis, and statistics. Curriculum Research Projects are available upon request. A graphing calculator is required; the TI-83, TI-84 or TI-89 is recommended. **Prerequisite: Completion of Algebra Two**

1 credit**Accelerated Pre-Calculus (CP4): 227****Grades 9-12**

This course is designed for college-bound students intending to study Advanced Placement Calculus. A graphing calculator is required; the TI-89 is recommended. Topics include families of curves, functions, graphing, logarithmic and exponential functions, trigonometry, data analysis, and statistics. Curriculum Research Projects are available upon request.

Prerequisite: Completion of Algebra Two

1 credit**Calculus (CP4): 228****Grades 10-12**

This semester long course offers an excellent introduction to Calculus while creating a solid foundation for those students wishing to enroll in Advanced Placement Calculus or another college level mathematics course. Topics include an extensive review of Pre-Calculus concepts, limits, derivatives and applications of derivatives. A graphing calculator is required; the TI-83, TI-84 or TI-89 is recommended. Curriculum Research Projects are available upon request. **Prerequisite: Pre-Calculus**

1 credit

Advanced Placement Statistics: 230/231**Grades 9-12**

This full year course will follow the College Board syllabus for Advanced Placement Statistics. The course is broken up into four parts and will focus on data analysis, data production, probability, and statistical inference. Emphasis will be placed on statistical thinking and reasoning. Much of the data used will be real data found either in the textbook, online, or collected by the students. Computer and calculator applications will be used extensively. Students must have a solid foundation in Algebra Two. A graphing calculator is required; the TI-83Plus or TI-84 is recommended. All students will be required to take the Advanced Placement test in May. Curriculum Research Projects are available upon request. This course meets every day for two semesters.

Prerequisite: Completion of Algebra Two**2 credits****Advanced Placement Calculus AB: 240/241****Grades 10-12**

This full year course follows the College Board syllabus for Advanced Placement Calculus AB. Topics include functions, limits, differential and integral calculus. A graphing calculator is required; the TI-89 is recommended. All students will be required to take the Advanced Placement test in May. Curriculum Research Projects are available upon request. This course meets every day for two semesters.

Prerequisite: Pre-Calculus**2 credits****Advanced Placement Calculus BC: 250/251****Grades 11-12**

This course will follow the College Board syllabus for Advanced Placement Calculus BC. This course is a continuation of AP Calculus AB and covers additional topics such as indefinite integrals, differential equations, parametric equations, polar functions and Infinite Series. A graphing calculator is required; the TI-89 is recommended. All students will be required to take the Advanced Placement test in May. Curriculum Research Projects are available upon request. This course meets on alternating days (R/W) for two semesters.

Prerequisite: AP Calculus AB**1 credit****Advanced Placement Computer Science A: 254/255****Grades 10-12**

This full year course follows the College Board syllabus for Advanced Placement Computer Science A. This course will be taught in the java language and focus on object-oriented programming methodology with an emphasis on problem-solving and algorithm development. Technology will be used daily. All students will be required to take the AP Computer Science A exam in May. A Comprehensive Research Project is available upon request. This course meets every day for two semesters.

Prerequisite: Concurrent enrollment or Completion of Algebra Two**2 credits****MATHEMATICS DEPARTMENT ELECTIVES****Robotics; Design, Create and Understand: 832****Grades 9-12**

The course will focus on how math and science are used in the world of robots. This will be a hands-on, project-based course that will rely on theory to explore design concepts. Students interested in working with the FIRST-based high school Robotics Team are encouraged to sign up for this course, as well as students who are interested in engineering and design.

Pre-Requisite: Concurrent enrollment or Completion of Algebra Two**1 credit**

Pre-Engineering: 830/8300

Grades 9-12

“Engineering is the profession in which knowledge of the mathematical and natural sciences, gained by study, experience, and practice, is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.”
Albert Einstein

Using activities, projects, problems, computer simulations, and discussions with practicing engineers, students will learn first-hand how engineers and technicians integrate math, science, and technology in an engineering problem-solving process to develop products and solutions that benefit people. Upon completion of this course, students will have a better understanding of the fields of Engineering and technical processes. This course meets every day for two semesters. **Prerequisite: Completion of Algebra Two** **2 credits**

SAT Preparation: 470

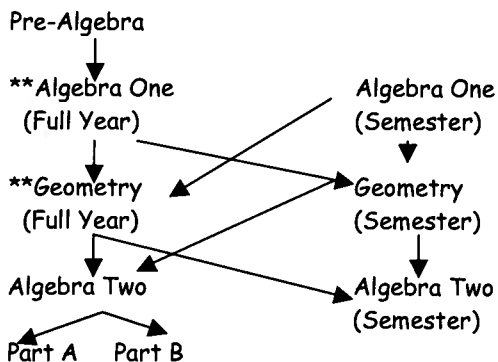
Grades 10-12

This quarter course prepares students to take the College Board SAT. The SAT is made up of 3 sections: Critical Reading, Writing, and Mathematics. The first half of each class period will focus on Mathematics, using Ten for Tens developed by PrepMe, from which homework and quizzes will be assigned. Practice SAT tests covering the 3 mathematics sections will also be completed. The second half of each period will be web-based using *The Official SAT Online Course*, in which students will work independently, practicing all sections of the SAT. Students will also receive handouts covering all sections of the SAT, word banks to enhance their vocabulary, and strategies to improve their SAT scores.

Pre-Requisite: Completion of Algebra Two

1/2 credit

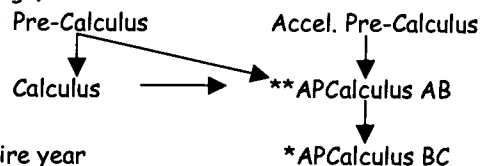
Messalonskee High School
Mathematics Department
Course Offerings 2010-2011



Mathematics Offerings following the completion of Algebra Two

(All students are encouraged to try any of the following math offerings)

- ***College Algebra
- ***Robotics
- Statistics
- **Pre-Engineering
- **APStatistics
- **AP Computer Science



*one credit course which runs on alternating days (R/W) for the entire year

**two credit course, which runs every day for the entire year

***Dual enrollment course with Thomas College

The philosophy of the Social Studies Department is to help each student become an independent thinker and a responsible participating citizen of a democratic society. All students are required to take four credits of Social Studies.

World History I (CP4, CP2): 411, 412

Grade 9

This is a survey course designed to provide students with both a solid grounding in some of the basic themes and events of World History and an opportunity to hone skills applicable to further academic pursuits. The historical content of the course will range from early river valley civilizations through Europe's age of exploration and conquest. Within this span, students will consider major civilizations and developments around the globe. A variety of reading strategies will be employed to help students continue the development of their literacy strengths and overcome weaknesses. Students will develop the ability to evaluate and analyze open-ended problems and issues.

1 credit

U.S. History 1 (CP4, CP2): 431, 432

Grade 11

This course studies U.S. History through the interpretation, analysis and synthesis of major events from the era of colonization to 1898. An overall view of the political, economic, and social development of the U.S. is included. Students become aware that what is happening today is directly related to what happened in the past. Students receive a sound foundation for decision-making and determining values in our democratic society.

1 credit

Civics: Government and Economics: 434

Grades 10-12

The goal of civics instruction is to develop in all students the knowledge and skills for informed, responsible participation in public life. Instruction will provide us an understanding of politics and government and the skills of good citizenship. Students will develop an understanding of the values and principles of American constitutional democracy. In order to be productive citizens, students must understand the basic economic principles, how our economic system works, and how other economic systems work. They must learn to make wise economic decisions about their own lives and become intelligent consumers, employers, and workers. A solid grounding in economics will help students prepare for the global marketplace.

Government and economics are tied together in our civic system. These include, but are not limited to:

- How the U.S. Constitution shaped the economic system
- Whether economic freedom is necessary for political reform
- Economic impact on presidential elections
- Costs and benefits of voting
- Changes in federal government spending
- How economic solutions to pollution differ from political ones
- Why income is not more equally distributed
- Why governments limit international trade

1 credit

Law: 435**Grades 11-12**

This elective course provides students with the knowledge and skills necessary to survive in our society. Emphasis is placed upon criminal and constitutional law and its application to everyday life. Practical information and problem-solving opportunities help students make legal decisions as young adults. This course meets every day for one quarter. $\frac{1}{2}$ credit

World History II (CP4, CP2): 437, 438**Grade 10**

This survey course is designed to continue the study begun in World History I. Major eras and developments will be considered, beginning with the Age of Absolutism in Europe and concluding with Africa and India at the close of the twentieth century. Students will consider historical themes such as government, law, society, technology, conflict and trade, making connections between various historical eras and our world today. Comprehension, evaluation, and analysis of primary and secondary source materials are stressed. Students will also develop research skills, learning to produce a formal paper in accord with the format rules of the Modern Language Association. **1 credit**

U.S. History 2 (CP4, CP2): 441, 442**Grades 11-12**

This course examines U.S. History by analyzing major events from 1898 to the present. The content includes an overall view of the political, economic, social, and governmental development of the United States. Students become involved in the process of history by viewing contemporary issues with a well-rounded historical perspective. Acquired skills in content reading comprehension, interpretation, analysis and synthesis are fortified. Students develop a sound foundation for decision-making and determining values in our democratic society. **1 credit**

Psychology 451**Grades 10-12**

This elective course is an introduction to the scientific study of the field of psychology. It involves the study of basic patterns of psychology including motivation, learning, emotions, the physiological basis of behavior, human growth and development, personality theory and measurement, and abnormal and deviant behavior. This course meets every day for one quarter. $\frac{1}{2}$ credit

Advanced Placement European History: 425/426**Grades 10-12**

This is a course intended for students who wish to complete classes in secondary school equivalent to college introductory courses in European history. In considering European history since 1450, this course introduces students to intellectual, cultural, economic, political and social developments that played a fundamental role in shaping the world in which they live. In addition to providing a basic narrative of events and movement, the goals of A.P. European History are to develop the following:

1. An understanding of some of the principal themes in modern European history
2. An ability to analyze historical evidence and historical interpretation
3. An ability to express historical understanding in writing

All students will be required to take the Advanced Placement test in May. This course meets every day for two semesters. **2 credits**

Advanced Placement U.S. History: 429/430**Grades 11-12**

This course is designed to be equivalent to a college freshman survey course. Students acquire an understanding of factual material before embarking on the interpretation of primary sources, secondary sources, conflicting opinions, and contrary analysis. All students will be required to take the Advanced Placement exam in May. This course meets every day for two semesters.

2 credits**Science**

The Science department is committed to preparing students for a world being transformed by the extraordinary growth of scientific knowledge. We provide each student with the knowledge base to help them understand the structure, processes, and interactions of the living and non-living world. Laboratory experiences familiarize the student with the scientific method, experimental techniques, and independent and small group work. We also help students develop literacy skills including purposeful reading of a variety of materials, and writing to analyze lab results and to relate science concepts to real-life situations. **Each student must successfully complete three science courses in order to meet graduation requirements, one of which must be a lab science.**

Earth Science CP: 317/318**Grade 9**

Earth Science is a lab/activities based course that focuses primarily on geology and astronomy. The geological component investigates the processes that shape our planet such as plate tectonics, volcanism, weathering, and erosion, as well as the principles used in determining the age and history of our planet. Astronomy helps students develop a clear understanding of the universe and the Earth's place in it. Students study star characteristics and life cycles, our solar system, orientation and placement of the Earth in our galaxy, formation of galaxies, and theories about the formation of the universe. **1 credit**

Biology CP: 324/325**Grades 9-10**

This course is intended as a general survey of biological principles, fundamental vocabulary, and basic laboratory techniques. The course material is often presented in a lecture-discussion style and includes demonstrations and student lab experiences. **1 credit**

Applied College Prep Chemistry: 332**Grades 10-12**

This course emphasizes applications of chemistry to real world situations. Less math oriented than Chemistry A and B, it provides frequent lab activities and problem solving experiences. Students acquire understanding of chemical concepts as they apply to air and water quality, chemical resources, nuclear energy, and fossil fuels.

Recommended: Algebra 1**1 credit****College Prep Chemistry A: 333****Grades 10-12**

This is the first in a sequence of two courses designed to introduce the student to the study of matter and its interactions. Both courses emphasize problem solving and laboratory experiences as students learn the basic concepts of chemistry. Topics in the first course

include formulas and equations, atomic structure, the periodic table, kinetic theory, and the gas laws. For a full understanding of chemistry, students are encouraged to enroll in both this course and College Prep Chemistry B. **Prerequisite: Algebra 1** **1 credit**

College Prep Chemistry B: 334 **Grades 10-12**

In this course students use the knowledge and skill acquired in Chemistry A to explore new topics, which include bonding, molecular structure, solutions, acids and bases, and oxidation-reduction. The course continues to use problem solving and lab work to reinforce the concepts. Students are strongly encouraged to take this course if they are planning to pursue the study of any science or health field in college.

Prerequisite: College Prep Chemistry A **1 credit**

Physical Science CP: 335 **Grades 11-12**

This course uses a laboratory activities, discussion and mathematical models to enable students to explore the physical world of motion and current electricity. The CASTLE curriculum is used to develop an understanding of current electricity and the scientific method. The course then develops mathematical models, which can be used to predict the motion of objects and how to change the motion of objects.

1 credit

Applied College Prep Physics: 341 **Grades 11-12**

This course is offered to all senior students not enrolled in the college preparatory physics course. Students deal with the practical application of mathematical problem solving applicable to common industrial situations.

Prerequisite: Algebra 1 **1 credit**

College Prep Physics A: 342 **Grades 11-12**

This course will cover mechanics, which will include the study of motion, the causes of motion, Newton's laws, circular and rotational motion, and conservation of energy and momentum. It will utilize physics modeling techniques, which emphasize the student as the scientific investigator. **Prerequisites: Algebra 2 and Geometry**

1 credit

College Prep Physics B: 343 **Grades 11-12**

This course will cover light and optics, electricity and magnetism. We will study the nature of light, reflection, refraction, diffraction, lenses, and interference. We will also study static electricity, electrodynamics, and electromagnetism. **Prerequisite: College Physics A**

1 credit

Environmental Science: 330 **Grades 11-12**

The goal of this elective course is to provide students with insights into various environmental problems and further their understanding of the environment. Topics include ecological principles, pollution, loss of biodiversity, climate change, and population issues. Case studies, outside readings, and examination of environmental issues facing Maine will supplement regular class work. **Prerequisites: Earth Science & Biology**

1 credit

Human Anatomy and Physiology CP: 345 **Grades 10-12**

Offered as an elective to college-bound juniors and seniors, this course will investigate the structure (anatomy) and function (physiology) of the human body, and the dynamic relationships between the body systems. It will provide all interested students with a deeper understanding of the workings of the human body, and serve as a firm foundation for those considering careers in health care. Lab investigations, dissections, demonstrations, and student projects will reinforce the concepts introduced by the readings and lectures. **Prerequisites: Biology and Health**

1 credit

Advanced Placement Biology: 346/347

Grades 11-12

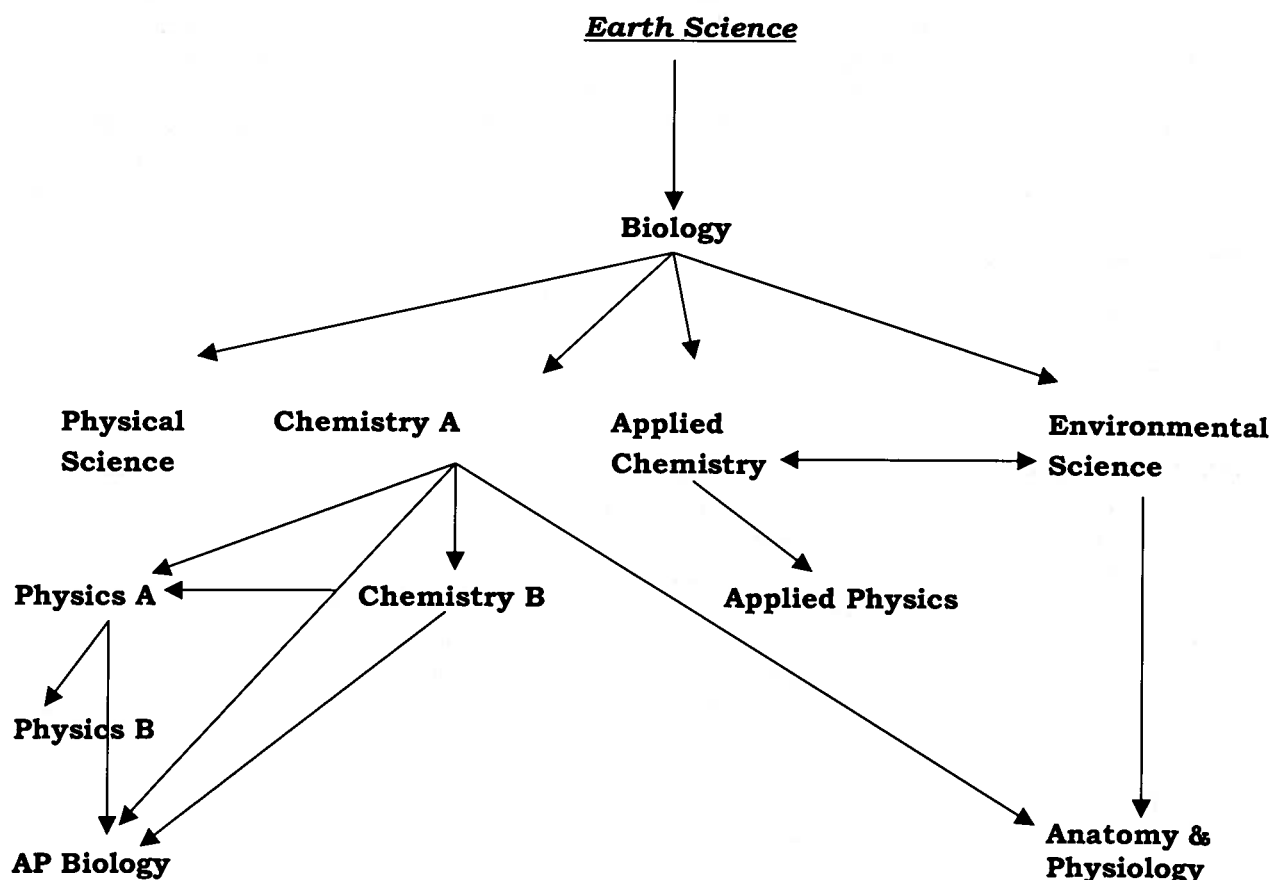
AP Biology is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. The topics include biochemistry, cells, genetics, evolution, microbiology, plants, animals and ecology. The course differs from introductory Biology as a college text is used, the depth of coverage is deeper, and the time and effort as well as the laboratory work required are greater. This course is designed to be taken after successful completion of Biology and Chemistry. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. All students will be required to take the Advanced Placement test in May. This course meets every day for two semesters.

Prerequisites: Earth Science, Biology, Chemistry

2 credits

**MESSALONSKEE HIGH SCHOOL
SCIENCE DEPARTMENT**

COURSE OFFERINGS 2010 - 2011



Health Education

Revised Maine Learning Results

- A. Health Concepts
- B. Health Information, Products, and Services
- C. Health Promotion and Risk Reduction
- D. Influences on Health
- E. Communication and Advocacy Skills
- F. Decision-Making and Goal-Setting Skills

Health: 510**Grade 10**

Health Education gives students the knowledge and skills to thrive physically, mentally, emotionally, and socially. It contributes to students' ability to successfully practice behaviors that protect and promote health, and avoid and reduce health risks. Health education helps students to determine personal values and group norms that support healthy behaviors. Through comprehensive health education, students learn basic health concepts and influences on health. They develop the skills required to adopt, practice, and maintain health-enhancing and safe behaviors. These skills include: analyzing the reliability and validity of media and health resources; communicating effectively using refusal and conflict management skills; setting goals; and making healthy decisions. Health education helps students to be better consumers of information, manage stress, and make healthy decisions in the face of conflicting messages. This course meets every day for one quarter or alternating days for one semester.

½ credit**Physical Education**

Revised Maine Learning Results

- G. Movement/Motor Skills and Knowledge
- H. Physical Fitness Activities and Knowledge
- I. Personal and Social Skills and Knowledge

Personal Fitness and Sport: 500**Grades 9-12**

Personal Fitness and Sport provides students with the skills and knowledge needed to participation in team sports and lifetime sports. Personal Fitness and Sport provides students with opportunities to develop motor skills, to analyze skills, to participate in physical fitness and to practice positive social skills. Students learn to assess and set goals, evaluate their own physical fitness, and use the knowledge to maintain or improve their current fitness level. This course meets for one quarter every day or for one semester alternating days. This course may be repeated for additional credit.

½ credit**Coaching/Peer Teaching: 503****Grades 10-12**

Coaching/Peer Teaching is recommended for any student interested in teaching or coaching. Students will actively learn about lesson planning, setting goals, teaching methods and safety precautions. This course meets for one quarter every day.

Prerequisite: Personal Fitness and Sport and approval by instructor**½ credit**

Dance: 501**Grades 9-12**

Dance class is designed for all students, including those with no prior dance experience and those with differing degrees of formal dance training. This course provides a student with opportunities to create, perform, observe and respond to dance. Students have many opportunities to discover and develop personal talents and to expand their perceptions of self, community and the world. Students will move through basic dance training, exploring movement elements and skills representative of a variety of dance styles, study the social culture and historical dimensions of dance, and experiment with choreographic principles, processes and structures. Students may work alone, with a partner, or in a group to perform, view, and analyze dances. Students will be engaged in projects that develop connections between dance and healthful living and dance relationships with other disciplines. This course meets for one quarter every day or for one semester alternating days.

½ credit**Self-Protection and Assault Prevention: 506****Grades 9-12**

Self-Protection and Assault Prevention is a nine-week course that helps individuals take an active role in learning how to protect themselves. Students will learn to become more aware of the inherent dangers in their environment, identify what frightens them, and what they can do to make their personal space safer. Practical strategies and guidelines for safer living are addressed. Students will learn and practice specific self-protection techniques and strategies and be able to demonstrate a workable knowledge of defensive maneuvers. Through simple but effective techniques, students will gain an assertive attitude, a new sense of composure, and useful knowledge of how each individual can mentally and physically defend him/herself in life-threatening and/or emergency situations. Self-Protection and Assault Prevention should not be looked upon as preparation to fight, but as preparation to face an emergency. The only time one ever uses the techniques learned in this course is when one's life or health is seriously endangered.

½ credit**Wellness: In Search Of A Healthy You: 505****Grades 9-12**

Wellness is a nine-week course that will address the necessary steps needed to achieve and maintain a healthy body. Obesity is the number one health issue facing our nation today. Wellness will cover nutrition principles, dietary requirements, a greater understanding of the Food Pyramid, grocery shopping tips, eating out, and steps needed to lose excess weight. Students will participate in self-assessments, action plans, and a variety of lifetime physical activities.

½ credit**First Aid/CPR: 502****Grades 10-12**

First Aid/CPR is a class to train laypersons to respond appropriately to emergency situations. Course content and activities will better prepare an individual to recognize emergency situations, make first aid decisions, and provide care with little or no first aid supplies or equipment. This course is designed to provide information and skills necessary for managing emergency situations until trained medical personnel arrive. Upon successful completion of the course students will receive American Red Cross certification in standard First Aid, Adult, Child, and Infant CPR. An American Red Cross certified instructor teaches the class. There is a \$5.00 fee to cover the cost of processing certificates by the American Red Cross. This course meets for one quarter every day or for one semester alternating days.

½ credit

Weight Training and Sports Nutrition: 504**Grades 10-12**

Weight Training and Sports Nutrition is designed for those students who desire to learn advanced principles of weight training combined with sports nutrition. The course emphasis is placed on physical fitness principles, aerobic training, specific weight training techniques, and current practices and principles of sound sports nutrition. This course meets for one quarter every day or for one semester alternating days.

Prerequisite: Personal Fitness and Sport

½ credit

Modern & Classical Language

The Modern and Classical Language Department of Messalonskee High School encourages all students to learn a new language. Studying a second language can improve your skills and grades in math and English as well as your test scores, and your analytic and interpretive abilities. Research has demonstrated that math and verbal SAT scores improve with each additional year of foreign language study. In the State of Maine, an increasing number of businesses work closely with companies in other countries and therefore need many kinds of workers who can communicate in other languages and understand different cultures. Within the U.S., knowing another language is also advantageous. Police officers, nurses, doctors, journalists, or hotel managers often find being fluent in other languages useful. If you know another language, you may be called upon to travel, and you will find advancement opportunities in government, business, law, medicine, health care, communications, social service, the military and marketing.

Because the study of foreign language has become increasingly relevant in the global economy, students often wonder which language offering would be most beneficial. In a sense, the choice does not matter in that the mastery of any second language significantly increases the student's capacity to acquire additional languages. Students must understand that true proficiency in a foreign language requires years of study and dedicated practice; for example, experts say that it takes between 600 and 850 hours to develop proficiency in French or Spanish. At Messalonskee High School we encourage students to take a minimum of three semesters of the same language in order to develop at least minimal proficiency.

Most colleges and universities require a minimum of 2 years of the same language and give extra consideration to students who take 3 years. In fact, selective colleges generally require three years, and highly selective colleges often expect four years. Since foreign languages are the cornerstones of strong literacy, we urge students to make full use of the program offered.

Spanish

Spanish is spoken by the most people worldwide and has emerged as a dominant language among the populations of North, Central, and South America. Mastery of this language will help anyone seeking an understanding of the Hispanic communities south of the border as well as those in our midst. Knowledge of Spanish will increase career options for those seeking employment in central and South America with organizations such as the Peace Corps or with various political and business affiliations that operate in these nations. Many companies are presently expanding branch offices into Hispanic-speaking countries.

Within our own borders many Hispanic communities need Spanish-speaking people to work in the service professions such as nursing, social work, law, medicine, law enforcement, and education--to name a few.

Students have the opportunity to use the audio-lingual approach to learning this language. The program spans four language skills: listening, speaking, reading and writing. Students will receive instruction in the language as much as possible and will be encouraged to use these skills both in and out of the classroom. Hispanic culture will also be explored.

Beginning Spanish (Stage 1): 151 **Grades 9-12**

Students learn to communicate about themselves, their families, and friends, and to express feelings, likes and dislikes. Students will use the present, and near future tenses, and they begin to identify similarities and differences between daily life in their own and in another culture.

1 credit

Beginning Spanish (Stage 2): 152 **Grades 10-12**

Students continue to communicate about themselves, their families and friends, and to express feelings, likes, and dislikes. Students will learn how to communicate about daily life in the target language, leading to a deeper understanding of the culture, as reflected in the Maine Learning Results. Students will be introduced to the preterit past tense of selected regular and irregular verbs and the use of present progressive forms of verbs.

Prerequisite: Beginning Spanish (Stage 1)

1 credit

Intermediate Spanish (Stage 1): 153 **Grades 10-12**

Students continue to develop communication skills and will use short sentences to discuss interests, hobbies, and common occurrences in daily life. More advanced verb tenses are introduced. These include more verbs in the preterit past tense and an introduction to the imperfect past tense, as well as the future, and conditional tenses of both regular and irregular verbs. And, students demonstrate awareness that there are phrases, idioms, and words that do not translate directly from one language to another. Students will also identify unique products and practices in culture, comparing them to their own. It is the recommendation of the Messalonskee High School language department that a student complete Intermediate Spanish (Stage 1) prior to attending most colleges.

Prerequisite: Beginning Spanish (Stage 2)

1 credit

Intermediate Spanish (Stage 2): 154 **Grades 11-12**

Students engage in longer more complex conversations relative to vocabulary and grammar acquired in the previous Beginning and Intermediate Stages of the language. Students will demonstrate understanding of written passages and personal notes on a familiar topic. They will also identify and discuss connections between cultural values and socially approved behaviors of another culture. It is the recommendation of the Messalonskee High School language department that a student complete Intermediate Spanish (Stage 2) prior to attending selective or highly selective colleges.

Prerequisite: Intermediate Spanish (Stage 1)

1 credit

Advanced Spanish: 155 **Grades 11-12**

At this advanced level, students exchange information about current, past and future events regarding issues of personal interest. Students will read and discuss selected short stories, poems, plays, or novels. They will also edit, revise and create a final draft of a short

piece of writing. Short articles about topics being studied in other subjects will be explored. There will be an emphasis on the development and use of oral communication skills in the target language.

Prerequisite: Intermediate Spanish (Stage 2)

1 credit

Latin & Greek

Latin and Greek are gateway languages that provide students with strong literacy and writing skills, enhanced English vocabulary acquisition, and a means of learning the languages of the scientific, medical, and legal professions. Members of academic communities worldwide recognize Latin as an indispensable tool for understanding the thought and wisdom of the western tradition, the foundations of our modern government and judicial system, and the inspiration for most western art, architecture, and literature. The study of Latin also provides an ideal preparation for the study of all Romance languages—French, Spanish, Italian, Portuguese, and Romanian—as they are directly derived from Latin. Latin and Greek make the study of German and Russian easier, as these languages share a linguistic structure to Latin and Greek. Students who are interested in pursuing careers in medicine, law, science, and foreign language study will help themselves enormously by studying Latin and Greek. Students who have studied Latin traditionally do better on SAT tests and other academic assessments. Virtually all colleges not only recognize the study of Latin and Greek as a satisfaction of the foreign language requirement but also regard the presence of these subjects on a student’s transcript as a strong indicator of academic discipline and achievement.

At each level, students will increase their ability to read Latin literature through their recognition of Latin parts of speech and vocabulary and will work toward the mastery of grammatical concepts. Emphasis is placed on the acquisition of a strong English literacy and vocabulary and a strong understanding of English grammar through the study of Latin.

Beginning Latin (Stage 1): 171

Grades 9-12

Students learn Latin noun and verb forms and basic grammatical structures that allow for the translation of simple Latin sentences. Students acquire an understanding of the culture of ancient Rome, while strengthening their understanding of English grammar and vocabulary.

1 credit

Beginning Latin (Stage2): 172

Grades 10-12

Students continue to learn new noun, pronoun, and verb forms and the grammatical structures necessary to reading and writing the language. They will be introduced to the past tenses and passive voice forms of the verb. Students will acquire a substantial pool of Latin vocabulary words and understand the process of English derivation from Latin, as reflected in the Maine Learning Results. The study of ancient mythology provides a cultural focus of this level. **Prerequisite: Beginning Latin 171**

1 credit

Intermediate Latin (Stage 1): 173

Grades 11-12

Students learn to recognize complex structures of Latin grammar through translation of Latin authors. The history of the Roman republican and imperial periods is emphasized, as is the influence of Roman culture on western government, daily life, literature, and art. It is

the recommendation of the Messalonskee High School language department that a student complete Intermediate Latin (Stage 1) prior to attending most colleges.

Prerequisite: *Beginning Latin 172*

1 credit

Intermediate Latin (Stage2): 174 (and Greek I; 177-optional) Grades 11- 12

Students apply grammatical training to the translation of Latin Literature. Emphasis is placed on the analysis of style, literary technique, and a consideration of the historical periods of the authors. The works of Cicero and several later Roman authors are read. Students may elect to begin the study of Homeric Greek at this time. It is the recommendation of the Messalonskee High School language department that a student complete Intermediate Latin (Stage 2) prior to attending selective or highly selective colleges. **Prerequisite: *Intermediate Latin 173***

1 credit

Advanced Latin: 175 (and Greek II; 178-optional) Grades 11-12

Students continue to hone their Latin reading skills. The class will read parts of Virgil's *Aeneid* in Latin. Greek II is available and where interest exists--Advanced Placement Latin.

Prerequisite: *Intermediate Latin 174*

1 credit

American Sign Language

American Sign Language is useful to students who plan to work in careers involving the deaf community or who have a deaf relative. Many opportunities exist for people who have proficiency in this skill. Students will learn core vocabulary of signs and an emphasis will be placed equally on expressive and receptive skills. Students will learn the relationship between American Sign Language and the role of the deaf culture.

ASL I: Beginning level I: 180

Grades 9-12

The fundamentals of American Sign Language (ASL), used by the Deaf community, are introduced. The course includes basic vocabulary, syntax, finger spelling, and grammatical non-manual skills as a foundation for ASL enhancement. An increased understanding of the Deaf community and culture are fostered as well.

1 credit

ASL II: Beginning level II: 181

Grades 9-12

Continued study of American Sign Language including sign language colloquialisms used in conversational signing. Expands students' receptive and expressive ASL skills and provides a summary of information currently available dealing with ASL grammatical structure and its sociolinguistic as well as pragmatic usage. ASL is useful to students who plan to work in careers involving deaf or disabled children or adults. Many opportunities exist for people who have proficiency in ASL.

1 credit

French

French is useful for students interested in film, theater, fashion, culinary arts, education, art, architecture, dance/ballet, literature, travel/cruise industry, and the Peace Corps. It is particularly relevant to students in the northeastern United States for the cultural connections that it provides to the strong French-Canadian influence in this area. French is also important for anyone planning business, political, military, or foreign service careers. This is evidenced by a recent listing of international jobs (8/25/08) distributed by the US State Department: 78 required or preferred French, and 27 required or preferred another UN language (Arabic, Chinese, English, French, Russian, and Spanish). France has the sixth largest economy in the world after the U.S., Japan, Germany, China and England. French is an official language in 28 countries and is spoken in 51 countries throughout the

world. Students intending to pursue advanced graduate studies in most areas of the sciences and humanities should keep in mind that they will be required to show a reading knowledge of a second language, and French remains the most commonly used academic language after English.

Beginning French (Stage 1): 161 **Grades 9-12**

Students learn to communicate about themselves, their families, and friends, and to express feelings, likes and dislikes. Students will use the present, past, and near future tenses and they begin to identify similarities and differences between daily life in their own and in another culture.

1 credit

Beginning French (Stage 2): 162 **Grades 10-12**

Students continue to communicate about themselves, their families and friends, and to express feelings, likes, and dislikes. Students will learn how to communicate about daily life in the target language, leading to a deeper understanding of the culture, as reflected in the Maine Learning Results. Students will talk about past events using the passé composé of a variety of regular and irregular verbs.

Prerequisite: Beginning French (Stage 1)

1 credit

Intermediate French (Stage 1): 163 **Grades 10-12**

Students continue to develop communication skills and will use short sentences to discuss interests, hobbies, and common occurrences in daily life. They tell about past events using the passé composé, and they begin to use the imperfect as well as the future, conditional and the subjunctive of both regular and irregular verbs. They demonstrate awareness that there are phrases, idioms, and words that do not translate directly from one language to another. Students will also identify unique products and practices in culture, comparing them to their own. It is the recommendation of the Messalonskee High School language department that a student complete Intermediate French (Stage 1) prior to attending most colleges.

Prerequisite: Beginning French (Stage 2)

1 credit

Intermediate French (Stage 2): 164 **Grades 11-12**

Students engage in longer more complex conversations relative to vocabulary and grammar acquired in the previous Beginning and Intermediate Stages of the language. Students will demonstrate understanding of written passages and personal notes on a familiar topic. They will also identify and discuss connections between cultural values and socially approved behaviors of another culture. It is the recommendation of the Messalonskee High School language department that a student complete Intermediate French (Stage 2) prior to attending selective or highly selective colleges.

Prerequisite: Intermediate French (Stage 1)

1 credit

Advanced French: 165 **Grades 11-12**

At this level, students exchange information about current, past and future events regarding issues of personal interest. Students will read and discuss selected short stories, poems, plays, or novels. They will also edit, revise and create a final draft of a short piece of writing. Short articles about topics being studied in other subjects will be explored. There will be emphasis on the development and use of oral communication skills in the target language.

Prerequisite: Intermediate French (Stage 2)

1 credit

Student Tech Team: 643

Grades 9-12

Students complete activities designed to develop technological skills, documentation and technical writing skills, research skills, and Web 2.0 skills in preparation to provide quality technology support to teachers and other staff. Students will then focus on providing tech support to our district IT team and will also create independent projects. Students will gain marketable job skills while significantly increasing the school's ability to integrate technology. This course is available to all MHS students, grades 9-12, and may be scheduled as part of your regular course schedule or you may elect to complete it on an independent basis (every 50 hours of completed time will earn ½ credit). Students may continue to enroll in the Student Tech Team course to receive progressive training in their future years at MHS.

1 credit

Visual Media I: 635

Grades 9-12

Students will work in teams to create four to five short films usually on self-selected topics to develop skills in shooting, lighting, sound, and editing techniques. Instruction covers camera handling, effective communication, and design for multimedia. Student films are often screened in school film festivals; some projects become entries in national film competitions or develop Internet audiences. Satisfies ½ Fine Arts requirement. This course meets every day for one quarter.

½ credit

Visual Media II: 638

Grades 9-12

Using professional-level work as models, students develop proficiency in advanced camera techniques and focus on lighting and sound to create highly developed fictional films and in-depth documentaries centered on local people and issues. Building on techniques practiced in Visual Media I, students use advanced design and production techniques as well as more complex video editors to create work that engages audiences, both in school festivals and in national competitions. This course requires that students work in teams, show initiative, and a willingness to experiment in creative approaches to filmmaking. Satisfies ½ Fine Arts requirement. This course meets every day for one quarter.

Prerequisite: Visual Media I.

½ credit

Web Design Using Dreamweaver: 639

Grades 9-12

Utilizing Macromedia's Dreamweaver, students will learn all aspects of web site development. The major topics of the course will consist of web page layout, typography, color, editing, and graphics. Students will also utilize photo-editing software for the purpose of publishing pictures and graphics on the web. Satisfies ½ fine arts requirement. This course meets every day for one quarter or may be completed on an independent basis.

½ credit

Technology Trades: 805

Grades 9-12

This course is designed to give students basic knowledge and skills on an exploratory level. Units of instruction will focus on wood and metal fabrication through a number of required projects. Safe and proper use of hand tools, power tools and machinery are stressed, as well as PPE (personal protective equipment). Also covered are drafting (computer aided), power technology, masonry, electronics, plumbing, welding, and auto repairs. There will be

an introduction to house construction utilizing skills in such areas as layout, framing, roofing, and siding. Problem solving will be taught and quality of workmanship is stressed. All students will progress according to their skills. Advanced projects will be given to qualified students on an individual basis, such as the use of the new computer aided design robotic metal cutting "Plasma Cam." More than one quarter of Tech Trades is needed to meet the Fine Arts requirement. This course meets every day for one quarter. ½ credit

Jobs for Maine’s Graduate (JMG) 9/10: 459 **Grades 9-10**

JMG 9/10 is designed to prepare students for life after high school. Four units will be completed: Self and Society, Career Research, Career Prep, and Financial Literacy. Students will discuss, research, explore various career and secondary education options while applying skills they learn to every day situations. JMG 9/10 will incorporate the lessons learned in the other classes to out of school situations as well. Guest speakers frequently present throughout the class allowing students the opportunity to experience unique career paths. Problem solving skills are incorporated in weekly challenges to encourage team building. **This course is a graduation requirement.** ½ credit

Jobs for Maine’s Graduates (JMG): 460, 461 **Grades 10-12**

This is a program that prepares students for the world of work. Emphasis is on leadership, employability skills, self-development, career development, and connections with school and community through curriculum, applied learning activities, and community service projects. Major themes include career choices, job expectations, importance of education in future success, and "life after school." The JMG specialist must approve qualified students. Applications are available in the Guidance Office. **1 credit**

Visual & Performing Arts

Art education has always been an essential part of a complete education. Art classes offer experiences in the use of materials, tools, and equipment. They provide knowledge of the processes and products of creative endeavors and give insight into their social and economic significance. Study of art provides students with the fundamental framework to develop skills and explore their creative potential for personal and professional interests.

Visual Art functions as:

- A means of communication for both artist and viewer. Visual artists express what they know, see, think, and feel. Conversely, viewers can read, that is, interpret the artwork of other artists.
- A means for higher order thinking, problem solving, and to stimulate imagination.
- A way to experience the use of tools, techniques, and media of visual art.
- A way to appreciate art as a reflection of past world cultures and to contribute to the present culture, both local and global.
- A way to envision the future and portray the past.
- Enrichment for the maker and the viewer.
- A connection to the human spirit, past, present, and in the future.

Maine Learning Results Content Standards Assessed in all Visual Art Courses		
<u>Visual and Performing Arts</u>		
Creative Expression	Cultural Heritage	Criticism and Aesthetics

Beginning Art: 711**Grades 9-12**

Come to Beginning Art to try out a wide variety of ideas, techniques, and materials that are visual art. Learn about different art styles and elements and experience snippets of art history and art appreciation. Projects will include drawing, painting, color and design, sculpture, pottery, printmaking, portraits, and masks.

1 credit**Intermediate Art: 713****Grades 9-12**

Intermediate Art is designed for the student who has completed Art I (or Beginning Art) and wishes to continue to explore the range of visual art techniques. Sign up for Art II if you'd like to continue developing a personal style and way of expression. Coursework will include drawing, painting on canvas, design, and sculpture.

Prerequisite: *Beginning Art, Art I, or permission of the instructor*

1 credit**Advanced Art: 714****Grades 11-12**

Advanced Art is for the experienced student who is ready to work more independently. Students will work on art exploration in their chosen media, perhaps with an idea of building a portfolio. The curriculum will be designed in collaboration with the instructor.

Prerequisite: *Intermediate art or permission of the instructor.*

1 credit**Book Arts: 706****Grades 9-12**

Join us in making decorated papers, handcrafted journals, blank books, albums, portfolios, boxes, cards, and more. Express yourself, create great gifts for others, and have fun all at the same time! Traditional techniques combined with natural materials and handmade papers are used to create unique books for writers and artists. Drawing and writing skills are a plus but not a requirement. Satisfies ½ fine arts requirement.

½ credit**Craft Techniques: 701****Grades 9-12**

Join us in exploring a variety of craft materials and techniques. We'll create works using paper, clay, glass, fiber, dyes, and more. Craft techniques will be drawn from a range of cultures and time periods. Projects may include basketry, Ukrainian egg decorating, Polish paper cuts, masks, and fiber and book arts. Experience in basic art and design is helpful but not required. Satisfies ½ fine arts requirement.

½ credit**Digital Art & Design: 720****Grades 9-12**

Learn graphic design techniques through a series of visual arts and computer-based projects. Create strong messages by organizing words and images and in the process you'll have the opportunity to explore Photoshop and other digital imaging techniques. Satisfies ½ fine arts requirement.

½ credit**Digital Photography: 719****Grades 9 - 12**

Would you like to improve your photos? Digital Photography will give you the opportunity to improve your shooting and digital processing techniques. For the most part, our darkroom will be the Adobe Photoshop program. Shooting projects will include landscape, portraits, action photography, and others. Satisfies ½ fine arts requirement.

½ credit

Drawing: 707**Grades 9-12**

Experience a sequential approach to drawing that will help you be more accomplished at perception and realistic rendering. You will work with a variety of media and techniques, with class work including portraits and perspective drawing. Satisfies ½ fine arts requirement. ½ credit

Graphic Art & Design: 702**Grades 9-12**

Learn to make multiples of your designs with wood and linoleum block prints, engravings, and lithographs. Design basics such as composition, lettering, color theory, and art historical perspectives will also be covered. Experience in basic art and design is helpful but not required. Satisfies ½ fine arts requirement. ½ credit

Hands On Art History: 721**Grades 9-12**

Find out who painted what and why. Introduce yourself to great painters and sculptors of history while experimenting with the materials and techniques used by the artists themselves. An overview of art from the Impressionism to Contemporary will be covered. Students with a lot or a little art experience are welcome. Satisfies ½ fine arts requirement. ½ credit

Painting: 704**Grades 9-12**

If you like color, this course is for you. Explore various color techniques including colored pencils, pastels, tempera, watercolor, and acrylic paint. Projects may come from artist or art historical examples and will cover many art and design concepts. Previous experience in Beginning Art, Art I, or Drawing is helpful. Satisfies ½ fine arts requirement. ½ credit

Pottery: 716**Grades 9-12**

This course is for students who have a great interest in working with clay. The course covers all hand building techniques, wheel throwing, sculpture, glazing and other decoration, and firing. Progression in this course allows students the opportunity to expand one's clay knowledge through Pottery II, III, and IV. Satisfies ½ fine arts requirement. ½ credit

Sculpture: 705**Grades 9-12**

Come work in 3-d and explore clay building, wood assemblages, carving, mobiles, plaster, and mask making. Experience in basic art and design helpful but not required. Satisfies ½ fine arts requirement. ½ credit

Photo Stories: 718**Grades 9-12**

How can you tell a story with photographs? Does the story start with the subject, with the way you manipulate the photo, with the way you display the work-in a book, on a wall, or on the web? In this photography class, you will edit and print your photos to create a visual narrative or story. You will work through a combination of assigned and independent projects. This "storytelling" can take many forms so you will have the chance to experiment with different ways of printing and displaying your work. Why, for example, do some photographers interview their subjects and include text with their images, while others decide to narrow down a final exhibit to just three very large prints? At different points during your projects, you will present your images to the class for critiquing. This course is open to students both with and without prior experience in photography. Satisfies ½ fine arts requirement. ½ credit

Metal Sculpture: 708**Grades 11-12**

Join this class and learn ways to create sculptures in metal. Students will learn to cut metals with various tools including the PlasmaCam laser cutter. We will practice welding, riveting, and other joining methods as we create realistic and abstract 3-D artworks. This course is open to students both with and without prior experience in sculpture. Satisfies ½ fine arts requirement. **½ credit**

Music, Instrumental and Band: 761/762**Grades 9-12**

Instrumental music lessons are provided to any student who demonstrates an interest in acquiring proficiency in a particular instrument. Participation in the band is contingent upon a student achieving an acceptable level of performance and demonstrating behavior suitable to a performance-oriented group. Students will express ideas and feelings through performance of works from a variety of cultures and historical periods. Students will learn to reflect upon and assess the characteristics and merits of instrumental works and performances. Band members are required to participate in all scheduled lessons and performances. Curriculum Research Projects are available upon request. Satisfies fine arts requirement. This course meets on alternating days all year. **1 credit**

Music, Vocal and Choral: 770/771**Grades 9-12**

This course is designed to acquaint students with proper vocal techniques and a variety of choral literature. Participation in the chorus is contingent upon a student achieving an acceptable level of performance and demonstrating behavior suitable to a performance-oriented group. Students will express ideas and feelings through performance of works from a variety of cultures and historical periods. Students will learn to reflect upon and assess the characteristics and merits of choral works and performances. Vocal lessons are provided to those interested in achieving a basic performance level. A concert uniform at an approximate cost of \$65.00 is required. Members are required to participate in all scheduled lessons and performances. Curriculum Research Projects are available upon request. Satisfies fine arts requirement. This course meets on alternating days all year. **1 credit**

Music Production Class: 776**Grades 9-12**

Students will be given a background in acoustical concepts related to audio recording and will learn the application of a digital audio workstation through major production projects. The class will prepare students for post-secondary study in communications, production, and audio engineering at colleges, universities, and technical schools. Students will learn basic digital editing using Apple Logic Pro. **Prerequisite: Algebra** **1 credit**

Social Issues Forum: 782**Grades 9-12**

Students will gain experience in research, organization, and in delivering their thoughts through oral presentations following the guidelines for public speaking. Students will explore various social issues in our society, choose a point of view, and persuade an audience with well-researched materials using quotations, surveys, statistics, court-cases and other important sources. The process for debate will require that students work in teams. Students will learn the techniques of argument and the formal presentation of those arguments. This course emphasizes tolerance, respect, personal discipline, and responsibility. One of the goals is to increase students' self-confidence when speaking to large or small groups. Students may participate in oratorical contests, which could lead to scholarships and prizes. Consistent attendance is imperative. Students also have the

opportunity to complete their Curriculum Research Project requirement in this course. Satisfies fine art requirement. **1 credit**

Drama 1: 783

Grades 9-12

Students will learn the basics of theater performance, theater history, and technical design. Activities include: improvisation, set design, character study, and the performance of short scenes and monologues. Participation in class activities is mandatory for the successful completion of this course. Satisfies fine art requirements. **1 credit**

Mid-Maine Technical Center

AUTOMOTIVE COLLISION REPAIR & REFINISHING

Students learn skills to repair collision-damaged vehicles to factory specifications. Topics include: collision repair, frame repair, welding, & painting.

National Program Certification: National Automotive Technician’s Education Foundation -NATEF

Student Certification: NATEF Refinishing, Non-structural, ICar Points

Dual College Credit Agreement: Northern Maine Community College (pending)

AM – Collision Repair

- Automotive Design & Shape
- Fiberglass/Plastic Panel Repair
- Welding
- Frame Repair

PM – Automotive Refinishing

- Surface Preparation
- Spray Equipment
- Mix & Apply Primer
- Color Mixing

AUTOMOTIVE TECHNOLOGY

Students use the latest technology to diagnose and repair automobile problems. Skills areas include automotive maintenance service, brakes, steering, suspension, and advanced auto systems.

National Program Certification: National Automotive Technician’s Education Foundation-NATEF

Student Certification: Maine State Inspection, NATEF Brakes, Suspension & Steering, Electrical, Engine Performance

Integrated Credit Available: Math

Dual College Credit Agreement: Central Maine Community College: AUT-110, Brakes – 2 credits, AUT-120, Steering & Suspension – 2 credits, AUT-150, Electrical – 3 credits

AM – Automotive Services

- Perform Scheduled Maintenance
- Brake Systems
- Electrical Fundamentals
- Steering & Suspension

PM – Automotive Systems

- Engine Mechanical Functions
- Advanced Chassis Systems
- Computer Control Systems
- Fuel & Exhaust Systems

COMPUTER AIDED DRAFTING

The Computer Aided Drafting program is a comprehensive, project-based program that will prepare students for work and post-secondary education in Architecture, Engineering, and other occupations, which utilize drafting skills. The curriculum, using AutoCAD, Inventor, & Revit software, meets national standards and help students master the fundamentals of the design and drawing process.

National Program Certification: American Design Drafting Association

Student Certification: AutoCAD Architectural, AutoCAD Revit

Integrated Credit Available: Math & Fine Arts

Dual College Credit Agreement: Eastern Maine Community College: CAD-101, Introduction to CAD – 3 credits

AM – Architectural Design & Drafting

American Institute of Architects Standards

Fundamental Architecture Technology

Design & Draw Residential Home

Construction Materials & Methods

PM – Technical Design & Drafting

Conceptualize & Design Mechanical Parts

Problem Identification & Solving

Graphic Expression & Animation

Basic Machine Shop Techniques

COMPUTER TECHNOLOGY

Students learn how to build, upgrade, and service PC computers and set up and maintain a local area computer network.

National Program Certification: CompTIA and APPLE

Student Certification: Comp-TIA A+, IT Technician Designation, & IT Essentials and APPLE Certified Mac Technician Portables, Desktops, & Leopard Troubleshooting

Dual College Credit Agreement: Kennebec Valley Community College: ETC-110, Computer Operating Systems – 3 credits

AM – PC Repair

Install Computer Hardware

Configure Computer

Perform Preventative Maintenance

PM – APPLE Technology

Install Apple Hardware & Software

Apple Certified Repairs & Service

MLTI Apple Macbook Troubleshooting

CONSTRUCTION TECHNOLOGY

Students develop the knowledge, skills, and applied learning experience to build a home.

Students follow a nationally certified curriculum endorsed by CONTREN. Learn all aspects of the residential construction business.

National Program Certification: National Center for Construction Education & Research (NCCER)

Student Certification: CONTREN Carpentry Core Curriculum, Level 1, & Level II, OSHA 10/30 Hour Certification

Integrated Credit: Math, Fine Arts

Dual College Credit Agreement: Eastern Maine Community College: BCT-151, Residential Construction – 7 credits

AM - Residential Construction

Blue Print Reading

Frame Interior/Exterior Walls

Roof Shingling

Install Insulation

Painting & Staining

PM - Finish Carpentry

Estimation of Materials

Prepare Building Site

Install Roof Components

Install Windows & Doors

Basic Construction Business Management

CULINARY ARTS

Students gain skills and knowledge of food preparation for a career in commercial or institutional food service. Students cook for and operate an on-site café and catering service.

National Program Certification: National Restaurant Association

Student Certification: American Culinary Federation Secondary Graduate, Serv-Safe Sanitation
Integrated Credit Available: Math

Dual College Credit Agreement: Eastern Maine Community College: CUL-131, Culinary Sanitation & Theory – 3 credits

AM – Food Preparation

Safety & Sanitation
Prepare Soups & Sauces
Prepare Baked Goods
Prepare Hot Food Recipes & Techniques
Prepare Cold Food Recipes & Techniques

PM – Restaurant Operations

Safety & Sanitation
Identify Controllable Expenses
Customer Service
Plan Menus
Hot & Cold Food Preparations

CTE ACADEMY

The CTE Academy provides 9th & 10th grade students instruction and training intended to prepare them for enrollment in one of Mid-Maine TECH's Certified Technical programs. Students develop a core of technical knowledge and skills through participation in a variety of applied learning experiences. *The CTE Academy is a 1.5 credit course.*

Student Certification: OSHA 10-hour Certification

AM – Waterville & Winslow Students

Students attend on alternate days for the entire school year

PM – Lawrence & Messalonskee students

Students attend daily for 1 semester

DIGITAL GRAPHICS

Students use the latest technology and courseware to develop skills in design, marketing, and media. Students combine artistic abilities, business sense, and technical proficiency to create an electronic portfolio of projects and consumer-based design work.

National Program Certification: PrintEd and Adobe Certified

Student Certification: PrintEd Introduction to Graphic Communications, PrintEd Digital File Prep, PrintEd Advertising Design, Adobe Certified Associate - Photoshop

Integrated Credit Available: Fine Arts

Dual College Credit Agreement: Central Maine Community College: GAT-100, Intro to Printing – 2 credits & GAT-176, Adobe Photoshop I – 3 credits

AM – Print Design & Production

Introduction to Graphic Design
Collage & Photography
Elements of Advertising
PDF Portfolio Design
Printing Methods & Technologies

PM – Web Design & Animation

Digital Illustration & Image Capture
Adobe Fireworks Flash, Dreamweaver
Digital File Preparation
Website Construction
Interactive Media

EARLY CHILDHOOD OCCUPATIONS

Students learn to provide safe and appropriate care and education to children under the age of five. Students operate a community playgroup and nursery school program on site.

Program Accreditation: National Association for the Education of Young Children

Student Certification: Emergency First Aid & CPR, Certified Early Childhood Assistant

Integrated Credit Available: Physical Education

Dual College Credit Agreement: Kennebec Valley Community College: ECE-155, Early Childhood Education Practicum – 3 credits

AM – Child Care

Infant & Toddler Care
Promote Nutrition
Perform CPR & First Aid
Child Development
Early Learning Nursery School

PM – Early Childhood Education

Perform CPR & First Aid
Plan Preschool Operations
Provide Creative Experiences
Promote Social & Emotional Development
Plan & Implement Mid-Maine TECH Preschool

ELECTRICAL TECHNOLOGY

The Electrical Technology program follows a nationally certified curriculum endorsed by CONTREN. This multi-faceted program teaches the basics of electricity as well as advanced electrical technology. This program prepares the student for success in career and post secondary educational fields such as: residential or commercial electrician, and electrical engineering.

National Program Certification: National Center for Construction Education & Research (NCCER)

Student Certification: Maine Journeyman 576 hour coursework, Contren Electrical Level 1 & 2, Core Curriculum, & Maine Electrical Helper’s License, 45-hour Code Course, OSHA 10/30 hour certification

Integrated Credit: Math

Dual College Credit Agreement: Kennebec Valley Community College: ETL-121, Electrical Wiring Practices – 5 credits

AM – Electrical I

Electrical Applications
Diagnose & Repair Electrical Problems
Wire Electrical Circuits
Test Circuits with Meters
Workshop Safety & Procedures

PM – Electrical II

Master Electrician Credits
Electrical System Design
Project Estimation
Read & Interpret Blue Prints
System Installation

EMERGENCY SERVICES

Students develop the knowledge and skills necessary to pursue careers in Emergency Services, Firefighting, and Law Enforcement. Students will follow national and state curriculum guidelines based on EMT-Basic and Firefighter I programs.

Program Certification: Maine EMS & Kennebec Valley Community College, Maine Fire Training & Education

Student Certification: Emergency Medical Technician – Basic (AM only), Emergency First Aid & CPR (AM & PM), Firefighter I Blocks 1, 2, 3, 4, & 7 (PM only).

Integrated Credit Available: Science, Physical Education

Dual College Credit Agreement: Kennebec Valley Community College: EMS-111, Emergency Medical Technician – 5 credits

AM – Emergency Medical Technician

First Responder/CPR Certification
Patient Assessment
Human Anatomy & Medical Terminology
Emergency Vehicle Operations
Self Defense
Patrol Procedures

PM – Firefighter

Fire Science & Behavior
Rescue Operations
Fire Control Procedures
Equipment & Vehicle Operations
Fire & Crime Scene Investigation
Criminal Law

MEDICAL CAREERS

Students learn the skills and acquire the training necessary to care for people who are ill or disabled. The Nurse Assisting course prepares students to take the State Certified Nursing Assistant Exam.

Program Certification: Maine Certified Nursing Assistant

Student Certification: Maine Certified Nursing Assistant, Emergency First Aid & CPR

Integrated Credit Available: Science, Physical Education

Dual College Credit Agreement: Central Maine Community College: MET-111, Medical Terminology – 3 credits

AM & PM – Nurse Assistant

Basic Medical Asepsis

Vital Signs

Patient Care Skills

Nutrition

First Aid & CPR

Medical Terminology

PRECISION MACHINING

Students learn how to manufacture metal parts using precision machining technology and computer numerically controlled machines.

National Program Certification: National Institute for Metalworking Skills - NIMS

Student Certification: NIMS Machining Level I: Turning, Work-Layout & Measurement, Materials & Safety

Integrated Credit Available: Math

Dual College Credit Agreement: Central Maine Community College: MTT-111, Lathes – 2 credits and MTT-112, Intro to Milling – 2 credits OR Kennebec Valley Community College: PMT-101, Fundamentals of Precision Machining Technology – 4 credits

AM – Machine Tool

Perform Precision Measuring

Operate Drill Press

Operate Lathe

Operate MIG Welding

PM – Machinist Operations

Perform Part Inspection

Operate Milling Machine

Operate Numerically Control Machine

Perform Welding Operations

Virtual High School Offerings

Virtual High School offers a catalog of full semester courses (on-line) in a variety of content areas to students in VHS member schools. Messalonskee High School is a member school. Listed below are examples of VHS course offerings. Other offerings can be found at www.govhs.org. These courses are currently for elective credit.

AP Courses

Art History

Economics: Micro and Macro

Environmental Science

French Language

Government & Politics: U.S.

Physics B

Physics C

Other Offerings

Basic Mandarin: Chinese Lang./Culture

Investing in the Stock Market

Criminology

Personal Finance

American Popular Music

101 Ways to Write a Short Story

Preveterinary Medicine

