

PROGRAM OF STUDIES

2020 – 2021

Lenox Memorial Middle and High School



Academic Expectations

- Demonstrate effective communication and reading skills
- Engage in critical and creative thinking
- Use technology appropriately
- Access, analyze, and critically apply informational resources
- Examine issues from a global perspective
- Exhibit academic integrity

Social Expectations

- Demonstrate integrity by acting truthfully and honorably
- Show respect for themselves, others and property
- Strive to enrich themselves, the school and the greater community
- Accept responsibility for their decisions and actions

Dear Parent/Guardians and Students,

The program of studies is provided to assist you in the selection of academic courses. Lenox Memorial Middle and High School offers a strong curriculum, which is diversified and challenging. Students should carefully select a schedule that not only satisfies their interests, but also prepares them for success after graduation. The demand has never been greater for students to be able to think critically, to solve problems, to clearly express their ideas and to be creative. Our nation needs well-educated, technically skilled young adults who have developed a love of learning.

Administrators, teachers, and counselors are available to answer any questions and to guide you in selecting the program which best suits your ability. Our staff will make recommendations as to the appropriate level of course assignments for each student, and parents are encouraged to discuss these placements with teachers. It should also be noted that course selection must be done with careful consideration. The building of a master schedule is a complex process requiring the proper utilization of our staff. Students should realize that classes are scheduled based on the number of requests for each course. As a result, once you receive your schedule, we will expect that you will attend your selected courses. Changes or drops would only be approved for appropriate educational reasons.

We hope that you find this handbook to be useful and informative. Lenox Memorial Middle and High School is proud of its teaching staff and their ability to intellectually challenge our children. Course offerings maximize the skill and expertise of our staff. In addition, the standard LMMHS curriculum is supplemented by opportunities like the Virtual High School, Dual-Enrollment and Vocational Programs with Pittsfield and Taconic High Schools. These options provide flexibility for students to pursue areas of personal interest and help to create a high school experience that maximizes educational and personal growth. Working together with parents, we are confident that our students will be prepared to compete with the very best in all future endeavors.

Sincerely,

Michael Knybel
Principal

STAFF DIRECTORY 2019-2020

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Ms. Kathleen Shove, BSN, RN

School Adjustment Counselor

TBA

School Psychologist

Dr. David Wehry

School Resource Officer

Officer William Colvin

Student Support Center

Ms. Maggie Rivers -Supervisor

Technology Specialists

Mr. Michael Jackson, IT Director
Mr. Timothy Lufkin

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LENOX MEMORIAL MIDDLE & HIGH SCHOOL MISSION & EXPECTATIONS FOR STUDENT LEARNING

Lenox Memorial Middle and High School cultivates critical and creative thinking, literacy, and social responsibility within a nurturing environment; we value integrity and the pursuit of excellence.

Academic Expectations:

- Demonstrate effective communication and reading skills
- Engage in critical and creative thinking
- Use technology appropriately
- Access, analyze, and critically apply informational resources
- Examine issues from a global perspective
- Exhibit academic integrity

Social Expectations:

- Demonstrate integrity by acting truthfully and honorably
- Show respect for themselves, others and property
- Strive to enrich themselves, the school and the greater community
- Accept responsibility for their decision and actions

CHOOSING A COURSE OF STUDY DURING HIGH SCHOOL

A Message from the Guidance Department

The Program of Studies is designed to help you understand the graduation requirements; the various levels that courses are offered in and begin to help you chart a pathway for your post-secondary plans. Beginning with 9th grade, progress towards fulfilling graduation requirements depends upon the accumulation of credits. Students' schedules are reviewed to assure that students have adequate credits to progress toward graduation with their class. The responsibility of meeting graduation credits is The Responsibility of Each Student and his/her Parent(s).

You will note that some courses have prerequisites that must be met before you are able to enroll in the course. Sometimes there is an achievement of a grade that is associated with taking a particular course. For example, enrolling in Honor's English 9 requires that you achieved a B+ or higher in 8th grade English. In some of the math and science courses; however, there is an expectation that a student has achieved a certain grade or higher but also has either completed a particular course or is currently enrolled in a particular math course. For example, Chemistry requires that the student has successfully completed Algebra I and is enrollment in Algebra II or higher level math course. The rationale supporting these prerequisites has to do with preparedness for the class.

Each department has outlined for you the sequence in which you can proceed in any given subject area. Although you may not yet know exactly what field of study you wish to explore post-graduation, some of you may be intent on a particular concentration which may result in your needing to make choices about what courses will best improve your chances of pursuing post graduate opportunities in that field of study. Meeting with your guidance counselor to ascertain that you meet your post-graduate goal is essential to good planning.

Things to also consider:

- Time. How much time are you prepared to set aside for studying?
- Appropriate placement in courses often leads to a stronger grade point average
- Challenging yourself without extending yourself
- Trust your teachers recommendation; they are the ones who have watched your performance and understand your strengths and weakness and are advising you based on what they understand is needed for the next level of mastery
- Colleges want to see you making strides each year and proving that you are ready for post-secondary education
- Set goals with your guidance counselor each year and review those goals as they may change as you change
- Naviance, a college and career readiness software tool, will be used to document your goals, gpa, test scores, college visits and a place for you to create a resume to assist you in your career and college planning

Academic Program Information

Graduation Requirements

Students may graduate from Lenox Memorial High School when they have met the graduation requirements listed below. The 104 credits must include 76 credits in the subjects below. The remaining 28 credits are elective.

Subjects	Credits
English	16
Math	16
Science	12
Social Studies	12
Language	8
Arts	2
Technology	2
Health and Wellness	8
Non-Elective	76
Elective	28
Total Credits Required	104
Minimum Annual Course Load	26

Course Requirement Notes

- The Social Studies requirement must include 4 credits of U.S. History and 4 credits of World History
- The principal may waive up to a total of 4 credits of the Arts, Technology or Language requirements when unusual circumstances occur due to schedule conflicts, accommodation of transfer students, or a student's special educational needs (as defined by the student's Individual Educational Plan). Waiving of requirements shall not reduce the total credits required for graduation.
- The English Department requires a writing course during the senior year.

MEETING THE GRADUATION REQUIREMENTS

The Technology requirement can be met by earning 2 credits in one of the following courses during the course of four years of high school. Some of these classes have prerequisites that must be met prior to enrollment.

- Engineering/Technology
- Honors Computer Science
- Exploring Computer Science
- Graphic Design
- Advanced Photography
- Digital Photography
- Advanced Placement Studio Art
- Fashion Design I & II
- Virtual Enterprise Program
- Virtual High School
- Other approved on-line courses
- Computer Meditated World Languages

The Arts requirement can be met by earning 2 credits in one of the following courses during four years of high school. Some of these classes have prerequisites that must be met prior to enrollment.

- All Art Classes
- All Woodshop Classes
- Engineering/Technology classes
- All Music Classes
- Drama

The World Language requirement can be met by earning 8 credits in the following courses:

- Completion of French 7 and French 8 equals 4 credits
- Completion of Spanish 7 and Spanish 8 equals 4 credits
- Completion of Latin 7 and Latin 8 equals 4 credits
- Students must also complete one additional year of a foreign language in high school if they completed two full years in middle school
- Two years of a high school foreign language, i.e., Spanish I & II, French I & II or Latin I & II

COURSE RECOMMENDATION AND SELECTION PROCESS

Course recommendations and selection process begins in February. Students performance in their current core classes, i.e. English, math, social studies, science, and foreign language along with any additional prerequisites noted in the Program of Studies, determines the course that would sequentially be next for each student. Although the process begins in February, the final grade determines the next level earned. Courses are selected in a collaborative process that involves the teacher, the future teacher, the student, and the parent/guardian.

- Program of Studies and Course Selection sheets will be distributed to students in grades 8-11. The Program of Studies should be brought home so parents and students can review course offerings as well prerequisites that may be needed. The Program of Studies is also available on line. Course Selection sheets should also be brought home to be filled out and brought back school on Advising days.
- Advising days will take place to allow for teacher/student discussions and teacher recommendations for course placement.
- English, math, science, social studies, and foreign language course placement for students in grades 8-11 will be based on each student's current performance. A final recommendation will be made by the teacher at the end of the school year.
- Elective courses should be chosen by students in grades 8-11 based on their interest and goals of meeting graduation requirements. The elective courses are reviewed with the guidance counselor. Attention should also be paid to prerequisites that may be needed for meeting graduation requirements in the Arts, Technology and Foreign Language.
- Course Selection sheets need to be returned to guidance by the student the week they are issued.

In the event there is a conflict, the parent needs to call their child's guidance counselor to schedule a meeting to discuss a specific concern.

Course Changes

A student who wishes to withdraw from a course after progress reports are issued must obtain written approval from the principal, guidance counselor, teachers and parent/guardian on a completed "Request to Drop/Add Course" form. The following conditions will apply:

- a. If the student is passing no credit will be given and a WP (Withdraw Passing) grade for the course will be recorded on the transcript.
- b. If the student is failing no credit will be given and a WF (Withdraw Failing) grade will be recorded on the transcript.

Teacher Course Recommendation and Course Overrides

In courses that are leveled, a student must meet the pre-requisite noted in the course description. Advanced Placement (AP) level courses also require a teacher recommendation as noted in the course description. A student who is not recommended for an Honors or an AP level course may request for a course/level change by completing the **Parent Request for A Course/Level Change Form**, found in the guidance office. **The form must be requested and completed by the first week in July.** Completing the form does not guarantee placement in a higher level course.

Massachusetts College Admission Standards

The Massachusetts Higher Education Coordinating Council has implemented minimum admissions standards for admissions into any Massachusetts state university or college. Many colleges and universities nationwide use similar standards.

Students entering 4-year institutions will be required to complete:

- Four years of Level I or II English
- Four years of Level I or II Mathematics (Algebra I & II and Geometry or Trigonometry) including math during senior year.
- Three years of Level I or II Science with labs
- Two years of Social Studies (including U.S. History)
- Two years of the same Foreign Language (3-4 years recommended)

Students for whom English is a second language may waive the foreign language requirement.

National Collegiate Athletic Association Eligibility

Students who plan to participate in a college athletic program will need to meet the academic eligibility requirements established by the National Collegiate Athletic Association (NCAA). Each of the three college athletic divisions has different eligibility requirements and is very specific. Detailed information regarding eligibility requirements is available in the guidance office. The NCAA recommends that students begin the process of establishing NCAA eligibility in grade 11. Students may get additional information at the NCAA web sites: <http://eligibilitycenter.org>

DISTANCE LEARNING

Distance learning is defined as a course that is taken outside of the course offerings in this Program of Studies. There are two types of distance learning: Online Courses and Dual Enrollment Courses.

Online Courses

LMMHS subscribes to **Virtual High School** as our official online school. VHS offers a wealth of courses that students may select from that are not offered in our Program of Studies. Courses are 1 or 2 semesters long and credit is granted when he/she successfully completes the course. A student is not permitted to take a class that is currently offered at LMMHS unless there is a scheduling conflict and permission of the principal.

VHS courses are typically offered during a scheduled directed study period. A guidance counselor has the ability to check on the student's progress only. Grades are determined by the teacher instructing the course which is not an employee of Lenox Public School. The student's transcript will designate the course as a Virtual High School course along with the grade earned.

Other accredited online institutions must also be approved by the Guidance Department for credit prior to taking the course. There is no communication between the institution and LMMHS. An official transcript must be provided to LMMHS to receive credit. The student's grade and the institution name will be reflected on the LMMHS transcript.

Dual-Enrollment

Dual enrollment occurs when a student takes high school and college courses concurrently while still a high school student. The college courses may be taken online or on campus. The courses must be offered by an accredited institution. The cost of the dual enrollment course is the responsibility of the family. In some cases, students may be eligible for free courses through the **Bridge to College Program** offered by **Berkshire Community College**. Students must get prior approval through the Guidance Office to receive credit for dual enrollment courses. Official college transcripts must be received by LMMHS before credit can be granted and posted to the student's high school transcript.

INDEPENDENT STUDY

It is the student's responsibility to find an instructor for Independent Study. Teachers are not obligated to provide instruction for Independent Study requests. An Independent Study Contract must be obtained from the Guidance Office, completed, and submitted for approval by the principal. **Independent Study may not be used to meet the minimum course load requirement.**

Independent Study may be available to students who wish to undertake a course of study beyond existing course offerings or who have scheduling conflicts. Independent Study Courses occur during the school day and conform to the regular semester calendar. Elective credit may be awarded for Independent Study in accordance with the guidelines established for awarding credit within the curriculum of the school. For example, four credits are awarded to a class that meets four times a week for one period, has assigned homework, tests, and a final exam.

CAREER TECHNICAL EDUCATION

While LMMHS does not offer career technical programs, options are available through a tuition agreement with the Pittsfield Public Schools for students entering either grade 9 or 10.

Programs that are offered include:

Pittsfield High School

Culinary Arts

Facilities Management

Taconic High School

Auto Body Collision & Repair

Automotive Technology

Carpentry

Cosmetology

Culinary

Early Education and Care

Electricity

Health Technology

Horticulture

Manufacturing Technology

Metal Fabrication

Students who opt to attend these programs must enroll at PHS or THS on a full-time basis. Students who are interested in exploring these options, should speak with a guidance counselor to arrange for a site visit. Site visits occur in January/February.

REPORT CARDS AND PROGRESS REPORTS

Report cards are sent home four times per year. Progress reports are available on the parent portal and are mailed home on an as-needed basis midway between report cards. The following grades may be earned:

A = Excellent
B = Good
C = Average
D = Poor
F = Failing

P = Passing
WP = Withdrawn Passing
WF = Withdrawn Failing
I = Incomplete
MED = Medical

Honor Roll

The Honor Roll at LMMHS recognizes excellence in achievement in all areas. The following guidelines provide all students with the opportunity to be recognized for their success while at the same time reward the initiative and hard work of students who take level one courses.

The weighted grading system will be used and eligibility is determined as follows:

Honors:

All grades for a quarter must average B (2.8 points) with no grade lower than a B- in a level II class

High Honors:

All grades for a quarter must average A- (3.4 points) with no grade lower than a B in a level II class.

In order to be eligible for Honor Roll, students must take at least half (50%) of their courses at the school. Outside courses will not be used to compute Honor Roll eligibility though passing grades must be obtained. Part-time students will not be included in the Honor Roll.

All graded courses are to be included in computing Honor Roll eligibility. Those subjects not included in the weighted grading policy (i.e.: art, industrial arts, etc.) will be averaged in as Level II courses. For example, a B- in art will be computed as 2.5 points.

An F in a course graded pass/fail, or carrying more than one course graded pass/fail, shall disqualify a student from the Honor Roll. A P (Pass) will not be averaged in with graded courses.

Credit Requirements for Determining Grade Status

To be a member of the senior class, students must have earned a minimum of 73 credits by the start of grade 12. To be a member of the junior class, students must have earned a minimum of 47 credits by the start of grade 11. To be a member of the sophomore class, students must have earned a minimum of 21 credits by the start of grade 10.

Transfer Student Credit

LMMHS welcomes and encourages new or returning students and their parents/guardians to meet with a guidance counselor prior to enrolling at LMMHS. An initial credit transfer form will be completed during the pre-enrollment meeting in an effort to determine courses needed for graduation. An official credit transfer form will be completed by the counselor and signed by the parent or guardian when the student's official transcript is received in a timely manner by the school. The form specifically clarifies the courses and levels the student has taken and how the credits would be applied to meet the LMMHS graduation requirements.

Transfer students also may need to take a placement test and/or meet with the Department Chair(s) to determine the correct level of a course to place the student in. This is particularly true in foreign language and mathematics.

Home School Credit

Home school courses completed through an accredited home schooling agency will be granted credit upon submission of an official transcript. Grades earned through home school programs will not be included in the calculation of GPA.

Grade Point Average

1. WEIGHTED GPA

The weighted GPA uses a system of quality points. Quality points earned for a course is equal to the factor from the quality point chart (table 1) times the credits assigned to the course. For example, an A earned in a Level II, one semester, 2 credit course equals 7.4 quality points ($3.7 \times 2 = 7.4$).

Quality points are then divided by the total number of credits carried. The resulting quotient is the GPA.

Formula:
$$\frac{\text{Quality Points}}{\text{No. of Credits Carried}} = \text{GPA}$$

2. NON-WEIGHTED GPA

The non-weighted GPA does not consider course level and uses a formula in which the grade of each credit-awarding course is multiplied by the credit assigned to the course. The products are summed and divided by the total number of credits carried. The resulting quotient is the GPA. Letter grades are assigned numbers according to the chart in table 2.

Formula:
$$\text{Grade} \times \text{Course Credit} = \text{Course Grade Point}$$

$$\frac{\text{Total of Grade Points}}{\text{Total of Credits Carried}} = \text{GPA}$$

Table 1

QUALITY POINT CHART

		Grades												
		A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
<u>Course Levels</u>	I	4.5	4.2	4.0	3.7	3.4	3.1	2.8	2.5	2.2	2.0	1.7	1.4	0
	II	4.0	3.7	3.4	3.1	2.8	2.5	2.2	2.0	1.7	1.4	1.1	.87	0

(When calculating the GPA, quality points are carried to 2 decimals)

Table 2

NON-WEIGHTED GRADE CONVERSION CHART

Grades														
A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F		
4.0	3.7	3.4	3.1	2.8	2.5	2.2	2.0	1.7	1.4	1.1	.87	0		

LEVELS OF PROGRAMS

The five main curriculum areas from which graduation requirements emanate—English, mathematics, science, social studies and foreign language —may be offered in two levels of difficulty. The appropriate level for a course is indicated with the course description. Courses that do not indicate a level are considered Level II courses.

LEVEL I (Advanced Placement and Honors)

Level I courses are the most advanced level and all Advanced Placement and Honors courses fall within this level. Courses at this level prepare students to meet the demands of the most rigorous colleges and universities. Level I courses are taught at an accelerated pace and in greater depth with an increased emphasis on student independence.

LEVEL II (College Prep)

Level II courses are the standard level of difficulty at which most subjects are taught. All college preparatory (C.P.) and most elective courses fall within this level. Some Level II courses are geared to meet the needs of students preparing for formal education or training beyond high school while others are more oriented to the world of work.

SEQUENCING OF COURSES

We do not recommend that students take courses out of sequence.

Students who are interested in testing out of a course in its entirety must:

1. Notify guidance and the subject area teacher, in writing, their desire to test out of a course **by the first week in May**
2. Understand they will be responsible for **taking the Final Exam** during the make-up scheduled in June.
3. **Must achieve a 90% or higher** to qualify for testing out.
4. Understand that taking a course out of sequence could result in other scheduling conflicts which may prohibit them from taking the next level course.
5. Understand that no graduation credits are granted and it is not reflected on the transcript.

GRADE POINT AVERAGE GUIDELINES

1. Courses taken at other schools by LMMHS students will be considered Level II courses. Exceptions may be made in cases where the transcript clearly indicates that the courses are honors level and approximately equal in academic rigor to our Level I courses.
2. Courses taken at other schools by LMMHS students including Dual Enrollment courses that are substantially similar in title and/or content to courses at LMMHS will not be awarded LMMHS credit unless approved in advance by the principal.
3. Courses taken by transfer students prior to enrollment at LMMHS will be considered Level II courses. Exceptions may be made in cases where the transcript clearly indicates that the courses are honors level and approximately equal in academic rigor to our Level I courses.
4. Home study courses will not be included in the calculation of GPA.
5. Students must be full time at LMMHS (carrying a minimum of 26 credits) for both the junior and senior year to be eligible for the academic distinctions of Valedictorian and Salutatorian.
6. Subjects repeated are counted both times (if credits are attempted/carried) and figured as separate courses.
7. The calculation of GPA includes only those credits earned in grades 9 through 12.
8. Only those courses emanating from major subjects areas of English, math, science, social studies, and foreign language are included in the calculation of the GPA. However, all courses and grades appear on the student's transcript that is sent with a college application.
9. Courses awarding fewer than 2 credits will not be included in the calculation of GPA
10. The GPA includes only courses that are graded in the traditional method of A, B, C, etc.
11. The GPA is found by dividing the sum of the quality points by the number of credits attempted/carried (not only credits earned). Thus, a subject failed gets zero grade point value (quality points), yet the credit assigned to the course is counted in the total credits for the divisor.
12. In instances when the GPA is calculated before the end of the school year, the impact on the cumulative GPA will reflect the portion of the year completed at the time the calculation is made.

Class Rank

LMMHS uses class rank for internal purposes such as in the determination of scholarships and awards and to determine Valedictorian and Salutatorian.

For the college application process, our school profile groups the senior class in a Grade Distribution Chart. The chart shows the order of the weighted cumulative grade point average over six semesters. This Grade Distribution Chart is shown on our school's profile that accompanies the student's transcript and it is calculated at the completion of the student's junior year.

Academic Leaders

All seniors' GPAs will be updated at the end of the third marking period of the senior year. The result of that update will be used for internal purposes as well as determining Valedictorian and Salutatorian. These students can be designated as speakers at the graduation exercises.

Incomplete Grades

A grade of I (incomplete) may only be issued under extenuating circumstances beyond the student's control when s/he is unable to submit all work during the normal course time. This grade may not be awarded simply for missing an important test. An incomplete must be made up within two weeks after grades close unless the teacher grants an additional extension of one week. Any additional extension must receive the written approval of the Principal. Failure to make up the required work within the specified time limit will result in a failing grade for all missing work. The final grade will represent all grades earned throughout the term.

Summer School Policy

It is expected that all students will earn the credits indicated in the grade level graduation requirement chart that pertains to the student, through the courses offered at LMMHS or other approved courses in order to earn a diploma. Circumstances can occur, however, when a student may need to earn credits at another accredited institution or outside the academic year. To this end, LMMHS will allow for such an opportunity but limit its extent. The conditions are as follows:

Failed Courses

Students are allowed to attend summer school for one or two failed course per year provided that they received two passing quarter grades in the subject they wish to make up. Students will receive the assigned credits provided they pass summer school.

Final Exams

Grades 9-12 will conduct final exams for all classes. Semester courses will have comparable final exams administered during class time the last week the class meets. Students with excessive tests in one day at mid-year can request alternative schedules. All full-year courses will have exams scheduled during four days set aside at the end of the school year for testing purposes.

Final exams should assess student mastery of major course content and skills. Exams should be consistent with the goals and objectives of the course. The value of a comprehensive exam shall be 20% of the final grade, and the evaluation procedure should be clearly communicated to the students in each class. School policy forbids releasing any student in a course from taking that exam regardless of the student's average except for seniors as noted below.

Students in courses having final exams who are not present for exams and who do not secure an excuse from the principal must receive a grade of F for the examination. Written excuses will be honored where, in the opinion of the principal, an extenuating circumstance exists. In such cases, an alternative make up period in July or August under the supervision of the guidance department will be utilized for exam administration. **ALL STUDENTS ARE EXPECTED TO TAKE FINALS DURING THE APPROPRIATE FINAL EXAM PERIOD.**

Exemption from a Final Exam for Students in Grade 12

The purpose of an exemption from a final exam is to reward seniors for high achievement during their senior year and to provide incentive for seniors to continue their high achievement after their post graduate plans have been determined. The exemption is subject to the following criteria:

- The student must have an A- average (avg. of 4 quarters) in the course with no quarter lower than B+.
- The teacher must agree with the exemption. If a teacher agrees to an exemption, the exemption applies to all eligible seniors in that section. Teachers are expected to inform students at the beginning of the course, as part of the explanation of their grading policies, whether or not students in the course will be eligible for an exemption. A student who qualifies for an exemption may still take a final exam for the purpose of improving his/her grade.
- The exemption only applies to full-year courses and not to semester-length courses.

HIGH SCHOOL COURSE DESCRIPTIONS

PLEASE NOTE: There is always the possibility that courses listed in the Program of Studies may not run due to low enrollment or budget constraints

Course offerings beyond those required for graduation are dependent upon course enrollment and availability of staff. Students, therefore, are urged whenever possible to list alternative courses to their first choice. A passing grade must be earned in any course used to meet a prerequisite. In some cases, the department chair and principal may waive prerequisites.

THE VISUAL ARTS

Fine Arts Education at LMMHS begins with the fundamentals of the visual arts. Our curricula focus on the foundations essential to create, design, draw, paint, photography, and fashion sculpting. Throughout the academic art journey, Students will develop skill and technique to become and understand the artistic process and its importance and influences on the world both present and past. Students on the art track will emerge with their own aesthetic point of view as they learn about the creative and commercial aspects of fine art and create lasting pieces for their student portfolio.

In the Painting track, students will learn in-depth about composition, value, color, form, and technique; understand and achieve excellence in all aspects of art media.

In the Fashion program, students will learn traditional skills for sewing and draping the figure combined with a computer technology program that can be applied to the forms that express your personal artistic vision.

FOUNDATION OF ART

6001 Grades 9, 10, 11, 12

Full Year

4 Credits

Foundation of Art is designed for beginning art students to establish the fundamental techniques and methods required for further study in the visual arts. Students will expand their visual awareness through investigation, observation, and drawing delineation. As they develop sound technical skills from direct observation, they will continue to evaluate their work based on the elements and principles of design: line, shape, color, space, form, value, texture and pattern, emphasis, contrast, unity, and rhythm.

Students will demonstrate their knowledge of effective use of space by accomplishing the design and construction of a 3-dimensional work. Experimentation with a variety of medium in a drawing, painting, and installation will be explored. Such applications may include charcoal, pastel, ink, Conte crayon, colored pencils, acrylic, gouache, watercolor, oil paint, collage, and printmaking.

Included in the foundation course are materials and techniques in applying color theory. Properties and effects of light and color will be explored as well as perceptual effects of color, color relationship, and color contrast principles. Students will experiment with invented images as they pursue tone as a means of visual expression and communication.

The completion of Foundation of Art is required to enroll in several other Art courses. The exception to this requirement would need approval from the Art teacher who would determine if the student had a strong understanding of the process of art.

DRAWING AND PAINTING I

6316, 6003 Grades 10, 11, 12

Full Year

3-4 Credits

Prerequisite: Foundation of Art

Drawing is the core of the visual arts program. In the first semester, each student is exposed to observational drawing from traditional subject matter such as still life, landscaping, portraiture, architectural perspective, interior-exterior, to advancing into working from the skeleton and muscle structure, to drawing the human form. Technical skills of composition, value, line, tone, texture, perspective, and proportion are explored in depth. Instruction takes place on both individual and group levels. In the second semester, students are introduced to the techniques and principles of paint handling, color theory, canvas preparation, and digital photography for evidence to train students to look, investigate, and remember with the purpose of using their own references. Traditional painting techniques such as *alla prima*, *impasto*, and *glazing* will be introduced. Practical studio exercises designed to increase the student's technical and conceptual repertoire will be accompanied by lectures on the historical context and applications of various studio techniques.

Students who would like to continue with Drawing & Painting for the second year, however, are not interested in pursuing the rigor of Advanced Drawing & Painting, will continue to follow the curriculum of the Drawing & Painting I, but would be able to determine what aspect of art to pursue in more depth.

DRAWING AND PAINTING II

6005 Grades 11, 12

Full Year

4 Credits

Prerequisite: Foundation of Art and successful completion of Drawing & Painting I

This course continues with more in-depth concepts acquired in Drawing and Painting I.

ADVANCED DRAWING AND PAINTING

6006, 6306, 6007 Grades 10, 11, 12

Full Year

2-4 Credits

Prerequisite: Foundation of Art with an A- or higher

Honors Advanced Drawing and Painting is for students who are highly motivated and have a desire to do college level work. Course work is designed around those students who are planning to continue in the visual arts in some capacity. Students will concentrate their efforts on the process and developing of an art portfolio. This class is designed as a continuation of Art Foundations and in preparation for AP Art.

Successful work of art requires the integration of the elements and principles of design; students must be actively engaged with these concepts while developing their skills. Students will work in investigative sketchbook and the final studio products should demonstrate evidence of conceptual, perceptual, expressive, and technical range.

The *principles* of design (unity, variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationships), articulated through the visual *elements* (line, shape, color, value, texture, space), will direct artists in making decisions in organizing of the elements of a picture plane in order to communicate content. Effective design is possible whether one uses representational or abstract approaches to art.

This advanced course focuses primarily on further understanding one's own artistic abilities through progressing technical skills and finding what it means to effectively communicate ideas using visual images. We will explore ideas, mediums, composition, art history, and technical components through student determination and instructor motivated activities.

FASHION DESIGN I

6008 Grades 10, 11, 12

Full Year

4 Credits

Prerequisite: Drawing and Painting I

Limited class size

Students will learn the rules of drawing; focusing on drawing the human body combined with creative expression, along with a computer program called MarvelousDesigner7. MarvelousDesigner7 allows you to create stunning 3D virtual clothing with cutting-edge design software. Students will learn to create designs with tools that enhance quality while saving time. Students will create basic shirts to intricately pleated dresses and rugged uniforms. MarvelousDesigner7 can virtually replicate fabric textures and physical features.

Students will learn the process of fashion design from sketching, developing, to editing and balancing a fashion collection. Students work through selected projects to develop visual research skills. Students gain a basic understanding of cutting and sewing techniques in preparation for the apparel industry. Hand-finishing techniques and machine sewing techniques will be learned as well as how they are used in various occupations. Students will create a sketchbook documenting their skills in design elements.

FASHION DESIGN II

6009 Grades 11, 12

Full Year

4 Credits

Prerequisite: Fashion Design I

Limited class size

Fashion Design II continues drawing the fashion figure from fashion illustrations. Students will learn more about attention to the element of surprise and begin to develop their own style. Students use a fashion figure to develop fashion design communication. Students will explore various drawing mediums from reference in the fashion world to enhance visual presentation. Students will work on basic principles of flat pattern drafting and draping on a form. Students are given an introduction on how garments are pattern cut and made up to commercial standards in the fashion industry today. Second-year students will develop and produce 24 pieces of clothing and produce a fashion show.

HONORS STUDIO ART

6010, 6011 Grades 11, 12

Full Year

2-4 Credits

Prerequisite: Advanced Drawing and Painting

This course is designed for those students who wish to develop a portfolio and is the **prerequisite for taking AP Studio Art**. Students will explore the three areas of study noted below.

1. Drawing Portfolio concentrates on light and shade, quality of line, composition, rendering of form, manipulation of surfaces and illusion of depth through an array of techniques and

medium. This portfolio will demonstrate risk taking, originality, expressiveness and creative problem solving.

2. Two-Dimensional Portfolio concentrates on the elements of design such as line, pattern, the illusion of space, motion, value and color. Students will use two-dimensional representation, traditional and digital photography, collage, and mark-making. Students will also focus on using computer technology in Photoshop programs along with other art tools and methods.
3. Three-Dimensional Portfolio concentrates on issues of depth and space. Elements such as mass, volume, form, plane, light and texture are expressed through subtractive, additive, and fabrication methods. This includes architectural models, sculpture, models, apparel, three-dimensional fiber arts, ceramics and wire work.

DIGITAL PHOTOGRAPHY

6315 Grades 10, 11, 12

Full Year

4 Credits

Prerequisite: Foundation of Art or Instructors Approval

This course is designed to provide students with a solid technical foundation in digital photography. Topics will include the use of camera controls, capture techniques, the quality of light, image editing within the camera and extensive use of Photoshop. Students will learn about composition, quality and pixel ratio and use their weekly assignments to visually create inspiring online journaling and artful blogging

AP ART

6012, 6013, 6014 Grade 12

Full Year

8 Credits

Prerequisite: Honors Studio Art

The AP Art and Design program consists of three different courses and AP Portfolio Exams—AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundations courses. Students may choose to submit any or all of the AP Portfolio Exams.

Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas for a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

The AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing courses are designed to be the equivalent to an introductory college course in 2-D art and design, 3-D art and design, and drawing, respectively.

6012 Drawing - Students will develop skills in drawing as they explore different media and approaches. Students will create artwork that reflects their own ideas and skills and what they have learned.

6013 2-D Art and Design – Students will develop skills in a two-dimensional medium such as graphic design, photography, collage, printmaking, and others as they learn the principles of 2-D design. Students will create artwork that reflects their own ideas and skills and what they have learned.

6014 3-D Art and Design - Students will develop skills in a three-dimensional medium such as sculpture, architectural models, metal work, ceramics, glass work, and others as they learn the principles of 3-D design. Students will create artwork that reflects their own ideas and skills and what they have learned.

INTRODUCTION TO PHOTOGRAPHY AND DARKROOM SKILLS: BLACK and WHITE

6015, 6016 Grades 9, 10, 11, 12 Semester/Full Year 2 Credits
Limited class size

Students will acquire the basic skills necessary to use and understand a 35mm manual camera. Students learn how to take photographs while being conscious of composition and light. Students will learn how to roll film, develop negatives and enlarge them to photographs. Photo journals and portfolios will be required for evaluation of assignments. Students will be exposed to photographers of historical significance through presentations, research, and digital media. Students will be required to prepare and display their photographs for the school and greater community. Cameras will be lent to students on a contractual basis.

INTERMEDIATE PHOTOGRAPHY

6017, 6018 Grades 9, 10, 11, 12 Semester/Full Year 2 Credits
Prerequisite: Grade of C+ or higher in Introduction to Photography and Dark Room Skills
Limited class size requires permission of the Instructor

Students will continue with the skills previously learned in Photography and Darkroom Skills. They will be encouraged to experiment with the camera and work with multiple negatives and images. Art room computers may be used to scan in photographs or to create digital images that can be manipulated in photo imaging software. Photo journals and portfolios will be required for evaluation and assignment. Students will be required to prepare and display their photographs for the school and greater community. Cameras will be lent to students on a contractual basis.

ADVANCED PHOTOGRAPHY

6019, 6020 Grades 10, 11, 12 Semester/Full Year 2-4 Credits
Prerequisite: A grade of B or higher in Intermediate Photography
*Limited class size requires permission of the Instructor

Students will continue to develop the skills and techniques previously learned in introductory and intermediate level photography classwork. They will explore photography through personal interpretation using literary devices and artistic styles. Advanced students will be encouraged to design personal projects from conception to completion and exhibition. Digital enhancement or imagery may be created as a part of the student's portfolio. Portfolios of work in progress, notes and artist statements will be required for evaluation. Students will be required to prepare and display their photographic work in the school and greater community. Cameras will be lent to students on a contractual basis.

GRAPHIC DESIGN

6036 Grades 9, 10, 11, 12

Semester

2 Credits

Graphic Design will offer students an opportunity to create and design artwork using creative thinking and problem-solving skills. Students will gain basic knowledge and skills for desktop publishing programs and photo manipulation using Mac computers and the software programs In-Design and Photoshop. Students will create artwork that demonstrates the understanding of the elements and principles of design in establishing a point of view and a sense of space or a mood. Students will make schematic layouts, draft ideas, revise, and exhibiting their work. They will critique their own work, the work of peers and the work of professional artists while demonstrating an understanding of the formal, cultural and historical contexts of the work.

MUSIC

CONCERT BAND

6040, 6041, 6042, 6043, 6044

Grades 9, 10, 11, 12

Full Year

2-4 Credits

Prerequisite: Previous study of a musical instrument and participation in Middle School Band is recommended. It is possible, with teacher approval, for students to learn an instrument while in High School.

The Concert Band performs repertoire from a variety of genres. This can include music from the Renaissance era through the popular music of today. Performance requirements include at least two formal concerts, High School Graduation and two Memorial Day Parades.

HONORS CONCERT BAND

6157, 6158, 6159 Grades 9, 10, 11, 12

Full Year

2-4 Credits

Prerequisite: Previous study of a musical instrument and participation in Middle School Band is required.

The Concert Band performs repertoire from a variety of genres. This can include music from the Renaissance era through the popular music of today. Performance requirements include at least two formal concerts, High School Graduation and two Memorial Day Parades. Students enrolled in Honors concert Band must either audition for the MMEA Western District Concert Band or participate in outside instrumental ensembles. Participation in outside ensembles must be approved by the instructor.

CHORUS

6045 Grades 9, 10, 11, 12

Full Year

2 Credits

Chorus is open to any student in Grades 9-12 and to eighth grade members of the Middle School Chorus. The ensemble will perform a wide variety of both accompanied and A Cappella music. The Chorus will perform at a minimum of two concerts and may perform at other school and community functions. Chorus rehearsals are from 7:00-7:40 on Tuesday and Thursday mornings.

HONORS CHORUS

6156 Grades 9, 10, 11, 12

Full Year

2 Credits

Chorus is open to any student in Grades 9-12 and to eighth grade members of the Middle School Chorus. The ensemble will perform a wide variety of both accompanied and A Cappella music. The Chorus will perform at a minimum of two concerts and may perform at other school and community functions. Chorus rehearsals are from 7:00-7:40 on Tuesday and Thursday mornings. Students enrolled in Honors Chorus must either audition for the MMEA Western District Chorus or participate in outside choral ensembles. Participation in outside ensembles must be approved by the instructor.

A CAPPELLA CHORUS

6046 Grades 9, 10, 11, 12

Full Year

2 Credits

A Cappella Chorus is an auditioned chorus that studies and performs unaccompanied vocal music from the fifteenth century to the present. Students accepted into A Cappella Chorus are strongly encouraged to audition for the MMEA Western District Festival Chorus. A Cappella Chorus meets from 7:00 – 7:45 on Friday mornings. Members of A Cappella Chorus are required to be enrolled in Chorus.

JAZZ ENSEMBLE

6155 Grades 9, 10, 11, 12

Full Year

2 Credits

Prerequisite: Must be currently enrolled in Concert Band and have instructor approval.

Jazz Ensemble is an auditioned ensemble open to students interested in the study and performance of jazz instrumental music. To participate, you must be able to perform on a jazz instrument. These include the following: Saxophone, Trumpet, Trombone, Guitar, Bass, Drum Set, Piano, and Auxiliary Percussion. Literature selected will focus on both current and past idioms of Jazz music. These will include: Swing, Be-Bop, Rock, Latin, and Rhythm and Blues.

HONORS JAZZ ENSEMBLE

6152 Grades 9, 10, 11, 12

Full Year

2 Credits

Prerequisite: Must be currently enrolled in Concert Band and have instructor approval.

Jazz Ensemble is an auditioned ensemble open to students interested in the study and performance of jazz instrumental literature. To participate, you must be able to perform on a jazz instrument. These include the following: Saxophone, Trumpet, Trombone, Guitar, Bass, Drum Set, Piano, and Auxiliary Percussion. Literature selected will focus on both current and past idioms of Jazz music. These will include: Swing, Be-Bop, Rock, Latin, and Rhythm and Blues. Students enrolled in Honors Jazz Ensemble must either audition for the MMEA Western District Jazz Ensemble or participate in outside jazz ensembles.

MUSIC THEORY and TECHNOLOGY

6050 Grades 9, 10, 11, 12

Full Year

2 Credits

Prerequisites: Some music study preferred

Music Theory and Technology is open to any student who wishes to further their knowledge and understanding of music. Topics studied include the basic elements of music: melody, harmony, rhythm, and form. The music notation software Sibelius will be learned.

HONORS MUSIC THEORY and TECHNOLOGY

6154 Grades 9, 10, 11, 12

Full Year

2 Credits

Prerequisites: Some music study preferred

Music Theory and Technology is open to any student who wishes to further their knowledge and understanding of music. Topics studied include the basic elements of music: melody, harmony, rhythm, and form. The music notation software Sibelius will be learned. The honors level of this course will be earned by completing the following: demonstrating the ability to perform Grade 3 music on their primary instrument and completing composition to be performed at either the Spring Concert or the Honors Recital.

WOOD WORKING

WOODWORKING I

6060, 6061, 6062 Grades 9, 10, 11, 12

Semester/Full Year

2-4 Credits

Woodworking I is a beginning level woodworking class. Emphasis is on learning to use woodworking machines properly and safely. Students will build projects both from prepared plans and from their own designs. Students will:

- Learn common wood joints-butt, half lap, dado*
- Read plans*
- Apply various finishes*
- Create a material list
- Learn measurement techniques
- Learn to make a construction drawing
- Make cabinets with drawers
- Design and execute a lathe project

WOODWORKING II

6063, 6064 Grades 10, 11, 12

Semester/Full Year

2-4 Credits

Prerequisite: Woodworking I

Woodworking II is an intermediate level woodworking class that builds on the skills learned in wood I. Students will:

- Learn how to sharpen tools
- Learn basic construction techniques
- Learn intermediate level wood joints – mortise and tenon, biscuit
- Learn to use the Internet for project designs
- Create projects without commercially prepared plans

WOODWORKING III/IV

6065, 6066 Grades 10, 11, 12

Semester/Full Year

2-4 Credits

Prerequisite: Woodworking II or Permission of the Instructor

Woodworking III/IV is advanced level woodworking classes. These courses are for students who are interested in expanding their skill to a higher level.

Students will:

- learn complex wood joints-finger, spline
- learn to build various jigs
- learn to construct projects with hardwood

DRAMA

DRAMA I

6080, 6081, 6082, 6083, 6084

Grades, 9, 10, 11, 12

Semester/Full Year

1-4 Credits

Drama I is a motivational course designed to make the student aware of their individual creative talent. The basics of acting and stage directing provide the structure of the course. By assuming roles in a play, the student learns to analyze, create, and develop character. Portraying that character enables the student to acquire self-awareness and confidence in relating a "a story" to an audience. The artistic aspects of theater, such as set design, costumes, writing and direction, motivate the student to create and then bring the creation to life. Theatrical training provides the student with the skills of close analysis and imaginative problem solving that inform life-long learning.

BUSINESS

MARKETING AND MERCHANDISING IN BUSINESS

2185 Grades 9, 10, 11, 12

Semester

2 Credits

Have you ever wondered how Dunkin Donuts, Starbucks, Nike, LL Bean, Ben and Jerry's became successful? This course will teach you the marketing skills needed to develop a product for the fashion, sports, or other markets. Students will learn about the four P's in marketing, how business operations connect a product or service to the users, how products are distributed, how to advertise and promote the produce, as well as career opportunities in the field of marketing. Other topics that will be covered are: selling skills, merchandising, and International Marketing. This course will be project based.

VIRTUAL ENTERPRISE PROGRAM

2186 Grades 9, 10, 11, 12

Semester

2 Credits

This course will allow students to experience all aspects of being an employee in a firm in a simulated business environment. Students will work in one of the departments; for example, funding, human resources, accounting, web page and design, purchasing, and sales and marketing "on-the-job work experience". Each student will apply for a position based on interest. They will also need to communicate their products with other companies. This course will prepare them for the workforce of tomorrow and STEM related careers.

ENGLISH

The English Department seeks to develop reflective, articulate individuals who respect a diversity of ideas and modes of expression as they respect their own.

During freshman and sophomore years, the English Department's courses provide opportunities for students to engage in close reading in a variety of genres including classic and contemporary texts. Writing skills are developed through frequent assignments; many benefit from the writing process that incorporates feedback from teachers and peers and demands multiple drafts. A strong foundation is laid in vocabulary, grammar, mechanics, and usage to enable students to express themselves clearly, cogently, and confidently.

During junior year, all students will enroll in American Literature, a course designed to be an exploration of the American experience through literature. The emphasis is on ideas that have shaped our country and its several cultures. The course will be enriched and complemented by readings and discussion in US History. Juniors are also eligible to take a variety of electives as a supplement to American Literature. Available electives are outlined further along in the Program of Studies.

Seniors may select courses to meet the subject requirement. Students are encouraged to make meaningful selections that will satisfy their own interests, maximize their growth, and add to the learning climate of the program.

ENGLISH 9 (Level II)

Required

1000 Grade 9

Full Year

4 Credits

The ninth grade English course transitions students to high school through an appropriately challenging curriculum that develops their understanding of literature, strengthens their analytical and creative writing skills, and prepares them to be thoughtful, articulate speakers. Students will read a variety of ancient and modern world literature, including novels, short fiction, essays, epic poetry, lyric poetry, and drama. Major writing assignments will emphasize the importance of multiple drafts and peer and teacher feedback. Summer reading is required.

HONORS ENGLISH 9 (Level I)

Required

1001 Grade 9

Full Year

4 Credits

Prerequisite: Students must earn a B+ or higher in grade 8 English and the recommendation of the grade 8 English teacher. In addition, students are required to complete the Honors summer reading assignment.

All areas of the English 9 program are presented in greater depth, at an accelerated pace, and with increased emphasis on student independence.

ENGLISH 10 (Level II)

Required

1002 Grade 10

Full Year

4 Credits

English 10 is a skills-based course that focuses on strengthening a student's skills in the areas of close reading, written analysis, and discussion. The course provides instruction in writing the literary essay, including an in-depth review of standard English conventions. Our approach is process-oriented, emphasizing drafts and revision.

Homework requirements include 20 pages of reading per night, written analysis, and creative projects throughout the year. Summer reading is required.

HONORS ENGLISH 10 (Level I)

Required

1003 Grade 10

Full Year

4 Credits

Prerequisite: Students must earn a B+ or higher in grade 9 English. In addition, students are required to complete the Honors summer reading assignment.

English 10 Honors introduces students to the advanced critical thinking, writing and research required for the upper-level English courses in subsequent grades. Students will work on strengthening skills in the areas of close reading, written analysis, and discussion. There is a sustained focus on writing, with an approach that emphasizes multiple drafts and revisions.

Homework requirements include 30 pages of reading per night, written analysis, and creative projects throughout the year. Summer reading is required.

AMERICAN LITERATURE/AMERICAN STUDIES (Level II)

Required

1004 Grade 11

Full Year

4 Credits

Prerequisite: Completion of English 9 and 10

American Literature explores the literature of the United States between 1865 and the present day with emphasis on American cultural diversity and on the history of those ideas that have shaped the nation. This course is taught in tandem with U.S. History as part of the American Studies program in the Humanities. Literary works from different eras of United States history and from different regions of the country are studied in order to trace the development of uniquely American literary styles and to see how the literature reflects and impacts the American experience. Core readings include the work of Twain, DuBois, Wharton, Larsen, Fitzgerald, Steinbeck, Ginsberg, and O'Brien. A major focus of the junior year is the development of students' writing ability, especially in crafting an argument. Juniors sharpen their writing skills through formal research assignments, intensive analytic essays, and creative responses to the curriculum reading. Structural grammar is reviewed, and vocabulary is studied routinely as preparation for the college standardized tests. Summer reading is required.

HONORS AMERICAN LITERATURE/AMERICAN STUDIES (Level I)

Required

1005 Grade 11

Full Year

4 Credits

Prerequisite: Students must earn a B+ higher in grade 10 English. In addition, students are required to complete the honors summer reading assignment.

All areas of the American Literature program are presented in greater depth, at an accelerated pace, and with increased emphasis on student independence.

ENGLISH ELECTIVE PROGRAM

PLEASE NOTE: English elective courses do NOT fulfill English departmental credit requirements for students in grades 9-11

The elective program has been formulated to address the diverse interests and needs of the maturing student, to enrich those skills introduced in grades 6 - 11, and to provide a broad range of language experiences to stimulate life-long learning.

Seniors may choose their course of study in English. However, as a strong foundation in writing is essential to a student's academic success, **one semester of a writing-based course during senior year is required.** Courses meeting this requirement include: Humanities, AP English, Creative Writing, Expository Writing, and Writing from Film.

HONORS HUMANITIES (Level I)

1006 Grade 12

Full Year

8 Credits

(4 Credits for English and 4 Credits for Social Studies)

Prerequisite: Completion of American Literature

Humanities investigates the types of communities -- political, social, moral, and religious -- that human beings have constructed for themselves and studies the various ways in which subjects navigate such terrain, both as citizens and individuals. From Ancient Greece to the contemporary U.S., the course will consider the literary, historical philosophical, and art and architectural expressions of what has been defined as the "Western Tradition." Much more than an overview of these classic works, Humanities encourages students to think critically about this tradition, and even strives to appreciate and understand the current relevance of what can seem to be historically and culturally remote. Why did previous generations value these works so highly? How are these writers and artists in conversation with each other? How are these works relevant to our own lives and what can we gain from them? What does it mean to be virtuous? What is the purpose, if any, of beauty? What does it mean to acquire knowledge? What makes a person or a society just? Students will grapple with these and other questions in conversations and lengthy writing assignments, with a particular interest in preparing students for the rigorous literary and historical analysis expected of them beyond high school.

CONTEMPORARY STORIES OF SURVIVAL (Level II)

1010 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

In his preface to the new translation of *Night*, Elie Wiesel agonizes over what made it impossible to not tell his tale of surviving the Holocaust. Finally, he settles on the simple truth, “I knew I must bear witness.” Contemporary Stories of Survival will honor this need through an exploration of survival tales from around the world. Testimonies, both non-fiction and fiction, from Africa, Asia, the Middle East, and the United States will anchor our investigation as we consider, through writing, discussion, and experiential education, what drives the human spirit to prevail in the face of unimaginable horrors.

CREATIVE WRITING (Level II)

1011 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

As David Foster Wallace once reflected, “Good fiction’s job is to comfort the disturbed and disturb the comfortable.” This class in creative writing is designed for students who want to do just that – write “good fiction”. Through discussion, assigned reading, writing exercises, and short story and script writing, students will critically examine what goes into a literary creation, and develop the habits necessary to grow as a writer. Students are required to keep a writing journal of their process, and prepare a portfolio of their work.

HONORS CREATIVE WRITING (Level I)

1028 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

As David Foster Wallace once reflected, “Good fiction’s job is to comfort the disturbed and disturb the comfortable.” This class in creative writing is designed for students who want to do just that – write “good fiction”. Through discussion, assigned reading, writing exercises, and short story and script writing, students will critically examine what goes into a literary creation, and develop the habits necessary to grow as a writer. Students are required to keep a writing journal of their process, and prepare a portfolio of their work. The Honors level of the course will present material in greater depth, at an accelerated pace, and with increased emphasis on student independence.

EXPOSITORY WRITING (Level II)

1008 Grade 12

Semester

2 Credits

This course is designed to help students improve their expository writing skills through intensive writing practice and analysis of student and professional models. Logical thinking skills, vocabulary, rhetoric, and grammar are emphasized. The course follows a workshop format in which students will be using several writing process practices such as small group critiquing, teacher/student writing conferences, independent writing, and teacher instruction of expository forms. Each student is required to complete satisfactorily a full-length product of each of the accepted forms of composition: definition, analysis, process, persuasion, argument, and comparison/contrast.

SCIENCE FICTION (Level II)

1029 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

Aliens. Time travel. Artificial intelligence. Genetic engineering. Alternate universes. This is the stuff of science fiction, and these are the topics we'll be diving into in this semester-long class. We'll read stories and novels and watch films that offer us both an imaginative and cautionary view of the world. Our course of study includes *Childhood's End*, *Neverwhere*, *Battle Royal*, *Little, Big*, and *We*, and such films as *Coherence*, *12 Monkeys*, *Brazil*, *Mad Max*, *A.I.*, *Signs*, and *Blade Runner*. The Honors level of the course will present material in greater depth, at an accelerated pace, and with increased emphasis on student independence.

HONORS SCIENCE FICTION (Level I)

1030 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

Aliens. Time travel. Artificial intelligence. Genetic engineering. Alternate universes. This is the stuff of science fiction, and these are the topics we'll be diving into in this semester-long class. We'll read stories and novels and watch films that offer us both an imaginative and cautionary view of the world. Our course of study includes *Childhood's End*, *Neverwhere*, *Battle Royal*, *Little, Big*, and *We*, and such films as *Coherence*, *12 Monkeys*, *Brazil*, *Mad Max*, *A.I.*, *Signs*, and *Blade Runner*. The Honors level of the course will present material in greater depth, at an accelerated pace, and with increased emphasis on student independence.

SPORTS IN LITERATURE AND FILM (Level II)

1025 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

Competitive sports have long had a central place in literature and culture, from the funeral games that conclude Homer's *Iliad* to the improvisational poetics of Muhammad Ali. How and why have sports been so integral to some of our most popular narratives? How do sports reflect larger social and cultural values? Do sports embody our hopes for equality and fair treatment in a civil society or are they a metaphor for the triumph of an elite few through brutal competition? How do we use sports to understand who we are as individuals? In particular, how are sports central to how we define gender, race, class, and sexuality? This course will seek to answer these questions through the study of a variety of fiction, poetry, journalism, autobiography, television series, documentaries, and feature films. Some works we will read or screen may include *When We Were Kings*, *Field of Dreams*, *Breaking Away*, *Personal Best*, *Hoop Dreams*, *Among the Thugs*, *Friday Night Lights*, *Moneyball*, "The Two Escobars," *The Blind Side*, *Million Dollar Baby*, and *Creed*.

WRITING FROM FILM (Level II)

1020 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

This course explores the medium of film from two distinct perspectives: the formal and the historical. First, students will study concepts of film production and reception while surveying U.S. cinema since the advent of sound. Next, they will explore how different films approach a common topic (coming of age, social justice, war) both through and against the genres of Hollywood cinema. Students will express their close reading of these films through a variety of writing assignments (critical reviews, researched presentations, creative responses, etc.).

WRITING FROM CONTEMPORARY FILM (Level II)

1033 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

This course explores the medium of film, with an emphasis on contemporary U.S. and world cinema. Of particular interest will be how films of roughly the last twenty years reflect shifting attitudes about identity, society, culture, history, the environment, and more. Additionally, the course will consider the impact that a number of recent technical advancements (digital video, digital editing, computer animation, CGI, internet distribution, etc.) have had on the character of film expression. Students will respond to these films through a variety of writing assignments (critical reviews, researched presentations, creative responses, etc.).

HONORS WRITING FROM CONTEMPORARY FILM (Level I)

1034 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of English 9

This course explores the medium of film, with an emphasis on contemporary U.S. and world cinema. Of particular interest will be how films of roughly the last twenty years reflect shifting attitudes about identity, society, culture, history, the environment, and more. Additionally, the course will consider the impact that a number of recent technical advancements (digital video, digital editing, computer animation, CGI, internet distribution, etc.) have had on the character of film expression. Students will respond to these films through a variety of writing assignments (critical reviews, researched presentations, creative responses, etc.). The Honors level of the course will present material in greater depth, at an accelerated pace, and with increased emphasis on student independence.

WRITING FROM CLASSICAL FILM (Level II)

1036 Grades 10, 11, 12

Semester

2 Credits

This course explores the medium of film from two distinct perspectives: the formal and the historical. First, students will study concepts of film production and reception while surveying U.S. cinema from the advent of sound to the 1980s. Next, they will explore how different films approach a common topic through the genres of Hollywood cinema. Students will express their close reading of these films through regular writing assignments.

HONORS WRITING FROM CLASSICAL FILM (Level I)

1037 Grades 10, 11, 12

Semester

2 Credits

This course explores the medium of film from two distinct perspectives: the formal and the historical. First, students will study concepts of film production and reception while surveying U.S. cinema from the advent of sound to the 1980s. Next, they will explore how different films approach a common topic through the genres of Hollywood cinema. Students will express their close reading of these films through regular writing assignments. Additional work will be required for those students taking this class for Honors credit. More extensive writing assignments are required for those students taking this class for Honors credit.

WRITING FROM DOCUMENTARY FILM (Level II)

1041 Grades 10, 11, 12

Semester

2 Credits

From rebellious skateboarders to master sushi chefs, from combat in Afghanistan to the perils of an all-McDonald's diet, from tightrope walkers to migrating penguins – documentary film in the 21st century has been a golden age of diverse topics, characters, and artistic styles. This course will survey the history and practice of documentary filmmaking, with a focus on work from the last twenty years. Students in the course will learn the major modes of the documentary (ethnographic film, investigative documentary, direct cinema, cinema vérité, the personal essay, re-enactment, etc.) and engage this work through a variety of writing assignments (critical reviews, researched presentations, creative responses, etc.). Screenings will include films such as *Dogtown and the Z-Boys*, *Jiro Dreams of Sushi*, *Restrepo*, *Supersize Me*, *Man on Wire*, *March of the Penguins*, and *Hoop Dreams*.

HONORS WRITING FROM DOCUMENTARY FILM (Level I)

1042 Grades 10, 11, 12

Semester

2 Credits

From rebellious skateboarders to master sushi chefs, from combat in Afghanistan to the perils of an all-McDonald's diet, from tightrope walkers to migrating penguins – documentary film in the 21st century has been a golden age of diverse topics, characters, and artistic styles. This course will survey the history and practice of documentary filmmaking, with a focus on work from the last twenty years. Students in the course will learn the major modes of the documentary (ethnographic film, investigative documentary, direct cinema, cinema vérité, the personal essay, re-enactment, etc.) and engage this work through a variety of writing assignments (critical reviews, researched presentations, creative responses, etc.). Screenings will include films such as *Dogtown and the Z-Boys*, *Jiro Dreams of Sushi*, *Restrepo*, *Supersize Me*, *Man on Wire*, *March of the Penguins*, and *Hoop Dreams*.

Additional writing assignments are required for those students taking this class for Honors credit.

DIGITAL MEDIA PRODUCTION (Level II)

1031 Grades 10, 11, 12

Semester

2 Credits

The course is designed to introduce students to a variety of current and emerging forms of digital media production – audio, video, animation, social media, etc. Students will develop the skills they need to both critically consume and effectively produce media within the context of communication and creative expression.

HONORS DIGITAL MEDIA PRODUCTION (Level I)

1032 Grades 10, 11, 12

Semester

2 Credits

The course is designed to introduce students to a variety of current and emerging forms of digital media production – audio, video, animation, social media, etc. Students will develop the skills they need to both critically consume and effectively produce media within the context of communication and creative expression. The Honors level of the course will present material in greater depth, at an accelerated pace, and with increased emphasis on student independence.

TELEVISION AND SOCIETY (Level II)

1038 Grades 10, 11, 12

Semester

2 Credits

This course examines television as both a reflection of societal values and as a catalyst for social change. Students will analyze television shows for artistic merit, will explore the connection between cultural norms and television representations, and will study the effect of sitcoms, dramas, newscasts, and sports programs on society. Students will demonstrate their analysis through class discussion and a variety of writing assignments.

HONORS TELEVISION AND SOCIETY (Level I)

1039 Grades 10, 11, 12

Semester

2 Credits

This course examines television as both a reflection of societal values and as a catalyst for social change. Students will analyze television shows for artistic merit, will explore the connection between cultural norms and television representations, and will study the effect of sitcoms, dramas, newscasts, and sports programs on society. Students will demonstrate their analysis through class discussion and a variety of writing assignments. Additional writing assignments are required for those students taking this class for Honors credit.

VOICES OF PROTEST (Level II)

1012 Grades 10, 11, 12

Semester

2 Credits

This course explores the ways humans have vocalized dissent through music, speeches, and literature. We will listen to and analyze music from such artists as Woody Guthrie, Nina Simone, Bob Dylan, and Rage Against the Machine. We will read essays by Emerson, Thoreau, DuBois, and Friedan. We will also examine poetry, short stories, and a novel. Students will demonstrate their understanding and analysis through class discussions, journal writing, and other writing assignments. Additional writing assignments are required for those taking this class for honors credit.

HONORS VOICES OF PROTEST (Level I)

1016 Grades 10, 11, 12

Semester

2 Credits

This course explores the ways humans have vocalized dissent through music, speeches, and literature. We will listen to and analyze music from such artists as Woody Guthrie, Nina Simone, Bob Dylan, and Rage Against the Machine. We will read essays by Emerson, Thoreau, DuBois, and Friedan. We will also examine poetry, short stories, and a novel. Students will demonstrate their understanding and analysis through class discussions, journal writing, and other writing assignments. Additional writing assignments are required for those taking this class for honors credit.

LANGUAGES

The Language Department offers French, Latin, and Spanish. In Latin, a student may take up to four levels. In Spanish and French, a student may take up to six levels, if started in Grade 7. All Language programs are carefully planned to develop in the student an ability to communicate effectively in their target language. A special effort is made to vary the methods used, exposing students to authentic materials and cultural differences. The development of proficiency in speaking, listening, reading, and writing is stressed and the purpose of teaching is to build a communicative ability in the target language. MassCore recommends two years of the same language. Many colleges require a minimum of three years of the same language.

FRENCH I (Level II)

5000 Grades 9, 10, 11, 12

Full Year

4 Credits

This first year course introduces the basic syntax as well as the major grammar structures of the language. Students develop the four basic skills - reading, writing, listening, and speaking with the use of authentic material - in order to integrate the study of French culture. This includes vocabulary building, the study of grammatical structures, and strong emphasis on conversational French. Students learn to express feelings, exchange opinions, and obtain information.

FRENCH II (Level II)

5001 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in French I

This course is a further development of skills acquired in first-year with emphasis on reading selections and continued practice in speaking and writing the language, thereby increasing the student's ability to use French to communicate, and to understand and interpret written and spoken language on a variety of topics. The course includes practice with audio and videotapes for listening comprehension, as well as reading short plays such as "Intrigue a Quebec."

FRENCH III (Level II)

5002 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in 8th grade French or French II

This course is a refinement of all the skills in the written and spoken language acquired in middle school. Students are given a wide variety of readings, many of them cultural, and are encouraged to develop self-expression through compositions and conversations. Students will read authentic written materials such as news articles and fiction and non-fiction text to increase their language acquisition. In addition, music plays an important role in increasing students' knowledge of the French culture and language.

HONORS FRENCH IV (Level I)

5003 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in French III.

This class offers harmonious integration of the four language skills. It is conducted primarily in French, involving students in active discussion and examination of the culture, present and past. The curriculum includes a systematic study of the history and geography of France. Students will also read one full play or two major literary works. Grammar is reviewed in depth, and students are expected to speak and write on a daily basis.

HONORS FRENCH V (Level I)

5004 Grades 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher French IV

This course is designed for advanced students who are interested in continuing to develop the four language skills. Classes are conducted in French. Grammar is reviewed in depth. Students learn about French literature with a focus on authors outside of France such as Quebec and Africa. They read a play and short stories, and a novel analyzing them in form and content. Culture and cultural differences are frequently discussed. Students are expected to write and speak daily. This curriculum provides preparation for the SAT II.

HONORS FRENCH VI (Level I)

5005 Grades 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in French V

This course is mainly conducted exclusively in French and require active participation. Students are involved in reading articles, listening to news and interviews, and writing essays, as well as engaging in conversation and presentations that revolve around thematic units, such as French history through film. Written and oral assignments are given daily. Students are provided alternate mid-term and final exams, as well as independent research projects.

AP FRENCH LANGUAGE & LITERATURE (Level 1)

5006 Grades 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in French V

This course, which prepares students for the AP French Language and Culture Examination, is designed for advanced students who have a strong understanding of the language. It is the equivalent of a college course and demands a great deal of effort both in and out of class. Classes are conducted exclusively in French and require active participation. Students are involved in reading articles, listening to news and interviews, and writing essays, as well as engaging in conversation and presentations that revolve around thematic units. Written and oral assignments are given daily. Many colleges and universities will grant college credit to students who take the AP test administered in May and earn a score of 3 or higher. **Students enrolled in AP French are required to take the AP French Exam.**

LATIN I (Level II)

5007 Grades 9, 10, 11, 12

Full Year

4 Credits

Latin I offers the students an introductory program which features a reading-based method that develops translation skills while integrating vocabulary and grammar through a continuous storyline. Students will learn noun forms in the three major declensions and verb forms in the six indicative tenses. Special emphasis will be placed on English cognates and the relationship of English to Latin. An introduction to the history, culture and mythology of the ancient world will be included in this course.

LATIN II (Level II)

5008 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Latin I

Latin II continues the program begun in Latin I, to include the remaining verb forms and the syntax of subordinate clauses. Emphasis will be placed on developing critical thinking and deductive reasoning within the framework of grammatical analysis and accurate translation skills. The Roman and Greek foundations of Western literature, government and culture will be discussed.

HONORS LATIN III (Level I)

5009 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Latin II

This course emphasizes the reading and translation of an anthology of Latin prose and poetry, including, but not limited to selections from Caesar, Cicero, Vergil, Ovid, Catullus, and Horace. Readings and discussions of background materials are integrated into the course. Students will also develop an understanding of the historical, social and political context of the selections read. An introduction to the rhetoric of Latin literature and the use of rhetoric in English will be included. Grammar will be reviewed both in conjunction with and independent of the readings.

HONORS LATIN IV (Level I)

5010 Grades 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade of C or higher in Latin III

The Latin IV course consists of reading the poetry of Vergil and prose of Caesar with historical and literary sensitivity. The course enables students to develop linguistic skills through such activities as translating poetry and prose precisely, reading passages of poetry and prose with comprehension, and analyzing literary texts in clear, coherent written arguments, supported by textual examples. This course is equivalent to AP syllabus without the requirement of taking the AP Latin exam.

AP LATIN (Level I)

5011 Grades 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Latin III

The AP Latin Course consists of reading the poetry of Vergil and prose of Caesar with historical and literary sensitivity. The course enables students to develop linguistic skills through such activities as translating poetry and prose from the required reading list precisely and literally; reading passages of poetry and prose with comprehension; and analyzing literary texts in clear, coherent written arguments, supported by textual examples. Assignments and assessments are modeled after actual AP questions to help the students prepare for the AP exam in May. AP Latin is roughly equivalent to an upper-intermediate college university level. **Students enrolled in AP Latin are required to take the AP Latin exam.**

FUNDAMENTALS OF SPANISH

5022 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Permission of Instructor

This course is designed for students with no prior study in a second language, and who are interested in learning Spanish. Emphasis will be placed on building Spanish language and cultural awareness. Through a variety of learning activities with audio-visual and print tools, work on oral production, accent, decoding skills and cognate awareness will prepare students for subsequent Spanish I coursework.

SPANISH I (Level II)

5012 Grades 9, 10, 11, 12

Full Year

4 Credits

This course is an introduction to Spanish language study through the four basic communication skills; speaking, listening, reading and writing. Vocabulary themes include describing self and world, home and family, school, food, sports, and health. Students will learn elementary grammar, to give and receive information, express ideas, and explore the identities and cultures of Spanish-speaking communities. Authentic print and digital sources prepare learners for traditional and proficiency assessments.

SPANISH II (Level II)

5013 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Spanish I

Second year Spanish continues to build on the four communication skills around travel themes. Language structures include an increase in vocabulary and more comprehensive grammar forms. The class uses immersive audio and visual materials to build fluency, focusing on communication. Students are expected to express themselves with accuracy and ease. By the end of the course, students should be able to read authentic digital and print. Write short pieces, and communicate orally.

SPANISH III (Level II)

5014 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Spanish II

This course provides an excellent opportunity to develop greater proficiency in the use of the four basic language skills. This is accomplished through a variety of readings and discussions in the Spanish language. The study of grammatical structures and vocabulary is continued in context along with the development of proficiency. Students are engaged in cultural and interdisciplinary learning in written assignments that deepen each student's understanding.

HONORS SPANISH IV (Level I)

5015 Grades 9, 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Spanish III

This course is designed to further the student's development of the four basic language skills. The class is conducted primarily in Spanish and the students will continue to study grammar (emphasis on verb tenses), write regularly on various topics, keep meticulous notes, and prepare oral presentations. In addition, they will participate in a reading program to develop their skills.

HONORS SPANISH V (Level I)

5016 Grades 10, 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Spanish IV

This course is for advanced students who are interested in and dedicated to reaching a high level of proficiency in all four communication skills. Students read and discuss a variety of Spanish literary and cultural texts. They study advanced grammar and vocabulary, and gain a greater understanding of idiomatic expressions. Students are expected to speak daily and write regularly. The curriculum provides preparation for the SAT II.

HONORS SPANISH VI (Level I)

5017 Grades 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Spanish V

This course is designed for advanced students who have a strong understanding of the language. It is the equivalent of a third-year college course and demands a great deal of effort both in and out of class. Students will learn about the cultures of Spanish-speaking countries through readings chosen for both their cultural and literary values. Through the continuous study of literature, in-depth grammar, and advanced vocabulary students learn to express themselves fluently in speech and in writing on a variety of topics.

AP SPANISH (Level I)

5018 Grades 11, 12

Full Year

4 Credits

Prerequisite: Grade C or higher in Spanish V

This course is designed for advanced students who have a strong understanding of and ability to use the language. It is the equivalent of a third-year college course and demands a great deal of effort both in and out of class. Students will learn about the cultures of Spanish-speaking countries through readings chosen for both their cultural and literary values. Through the continuous study of literature, in-depth grammar, and advanced vocabulary students learn to express themselves fluently in speech and in writing on a variety of topics. Students will receive preparation for the Advanced Placement Spanish language exam. Many colleges and universities will grant college credit to students who take the AP test administered in May and earn a score of 3 or higher. **Students enrolled in AP Spanish are required to take the AP Spanish exam.**

ELECTIVE FOREIGN LANGUAGE**COMPUTER MEDIATED WORLD LANGUAGES (Level II)**

5095, 5096, 5097, 5098

Grades 9, 10, 11, 12

Semester/Full Year

1-4 Credits

The purpose of this course is to provide LMMHS students with the unique educational experience to explore world languages through technology. This hands-on course allows students to develop a degree of linguistic proficiency in one or more of the world's languages, such as Arabic, Chinese (Mandarin), Filipino, German, Greek, Hindi, Italian, Japanese, Korean, Persian, Russian, Urdu, and other languages (24 total languages). Emphasis is placed on communicative language skills such as the development of listening and speaking skills.

This course is aimed at all students in grades 9-12, with or without world language backgrounds who have basic computer/internet skills. This course can be taken for 1, 2, 3, or 4 credits. For example, to earn four credits in this course, students must complete 180 (90 for 2.0 credits) class periods per year interacting with one language of their choice. This course can be repeated for additional credits.

MATHEMATICS

The high school mathematics program offers a variety of avenues for students to complete a minimum of four years of math study in order to be college and career ready. Mathematics courses are sequential in nature and are offered at varied levels of difficulty. Students are placed in specific courses based on the recommendation of their present mathematics teacher. Recommendations made are based upon classroom performance, test grades, and an assessment of each student's aptitude for mathematics. Honors courses are considerably more difficult than regular courses as the pace is faster, concepts are more complex and more study time is required. Students must maintain a minimum of a 'B-' average to remain in the honors sequence.

All high school mathematics courses follow the Massachusetts Common Core Standards for Mathematical Practice and Frameworks.

Occasionally, a student may wish to advance in mathematics. Our 8 period schedule allows students to double up in certain math courses. Please refer to the prerequisites noted in the course description and speak with your guidance counselor.

MATH LAB 9 (Level II)

2022 Grade 9

Full Year

4 Credits

Math Lab 9 is designed to help students who have not performed well on the mathematics section of the MCAS test from the previous year. LMMHS is committed to helping students improve their mathematical performance by offering an additional math class that is designed to targeting the areas of math where students show weakness. The instruction will be both academic as well as applied through the use of manipulatives and projects. Students who scored in the low end of needs improvement or in the warning categories on their 8th Grade math MCAS test will be recommended to take this course.

ALGEBRA I (Level II)

2001 Grade 9

Full Year

4 Credits

Prerequisite: Successful completion of Mathematics 8. Alternatively, successful completion of Basic Algebra/Geometry and Teacher Recommendation

This course serves as the foundation of high school mathematical studies. Its focus is on the four critical areas: (1) deepen and extended understanding of linear and exponential relationships; (2) contrast linear and exponential relationships with each other and engage in methods for analyzing, solving, and using quadratic functions; (3) extend the laws of exponents to square and cube roots; and (4) apply linear models to data that exhibit a linear trend.

HONORS ALGEBRA I (Level I)

2181 Grade 8

Full Year

4 Credits

2002 Grade 9

Full Year

4 Credits

Prerequisite: Successful completion of Accelerated Math 7 with a B- or higher. Alternatively, successful completion of Math 8 with an A- or higher and Teacher Recommendation.

This course is an intensive, in-depth approach to Algebra I. The Algebra I sequence is covered at a faster pace. More difficult problems and additional topics are included. Problem solving skills are emphasized.

GEOMETRY (Level II)

2004 Grade 10

Full Year

4 Credits

Prerequisite: Successful completion of Algebra I or Honors Algebra I with a C- or higher

In this course students will explore more complex geometric situations and deepen their explanations of geometric relationships and presenting and hearing formal mathematical arguments. Its focus is on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumferences, area and volume formulas; (4) apply the Pythagorean Theorem to the coordinate plane; (5) prove basic geometric theorems and (6) extend work with probability.

HONORS GEOMETRY (Level I)

Full Year

4 Credits

2005 Grades 9, 10

Prerequisite: Successful completion of Honors Algebra I with a B- or higher. Alternatively, successful completion of Algebra I with an A- or higher and Teacher Recommendation

In this course students will cover the same topics as listed in Geometry but will deepen their understanding of the six critical areas by exploring higher-level mathematical standards.

ALGEBRA II (Level II)

2006 Grade 11

Full Year

4 Credits

Prerequisite: Successful completion of Algebra I with a C- or higher. Alternatively, successful completion of Algebra & Geometry II with an A- or higher and Teacher Recommendation

In this course students continue their study of functions to include logarithmic, polynomial, rational and radical functions. Instructional time focuses on four critical areas: (1) relating arithmetic of rational expressions to arithmetic of rational numbers; (2) expanding understandings of functions and graphing to include trigonometric functions; (3) synthesizing and generalizing functions and extending understanding of exponential functions to logarithmic functions; and (4) relating data display and summary statistics to probability and explore a variety of data collection methods. Emphasis is placed on PSAT/SAT preparation, real-world applications and the use of technology, especially the use of a graphing calculator.

HONORS ALGEBRA II (Level I)

2007 Grades 9, 10, 11

Full Year

4 Credits

Prerequisite: Successful completion of Honors Algebra I with a B- or higher. Alternatively, successful completion of both Algebra I and Honors Geometry with an A- or higher and Teacher Recommendation

This course offers an intensive and in-depth approach to Algebra II. It reviews all topics previously covered in Algebra I but with much more depth. In addition, this course covers complex numbers, radicals, conic sections, higher degree polynomials, rational expressions, exponential and logarithmic functions, circular and trigonometric functions with applications, sequences, series, and probability.

PRE-CALCULUS (Level II)

2008 Grade 12

Full Year

4 Credits

Prerequisite: Successful completion of Algebra II with a grade of C- or higher

This course offers a continued and broadened study of advanced functions to expand the understanding of logarithmic, exponential, reciprocal, rational and trigonometric functions. Topics also include data analysis, sequences and series, and recursion. Emphasis is placed on SAT preparation, real-world applications and the use of technology, especially the use of a graphing calculator.

HONORS PRE-CALCULUS (Level I)

2009 Grades 10, 11, 12

Full Year

4 Credits

Prerequisite: Successful completion of Honors Algebra II and Honors Geometry with a B- or higher or Algebra II with an A- or higher with a teacher recommendation

This course is designed to combine the trigonometric, geometric and algebraic techniques needed to prepare and strengthen students' conceptual understandings of problems and mathematical reasoning in solving problems. Instructional time will be spent on four critical areas: (1) extended work with complex numbers and use of polar coordinates and parameter functions, (2) expand understanding of functions to include logarithms, exponential and trigonometric functions, (3) use characteristics of functions to sketch graphs of functions, and (4) perform operations with vectors.

CONSUMER MATH (Level II)

2020 Grade 12

Full Year

4 Credits

This course reinforces general math topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. Applications may include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and rental, managing personal income, and investment.

STATISTICS (Level II)

2024 Grades 10, 11, 12

Full Year

4 Credits

This course introduces students to the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics include basic probability and statistics, discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, presentation of data (including graphs), normal distribution and measures of variability.

CALCULUS (Level II)

2028 Grade 12

Full Year

4 Credits

In this college preparatory course, students will build on the concepts learned in pre-calculus, learning about limits, differentiation, and integration. Students will apply these concepts to a wide range of real-world problems, including rates of change, optimization, and velocity/acceleration. This course will include a review of key pre-calculus topics and will include a substantial focus on applications of calculus. This course will provide a solid foundation for students planning on studying STEM-related topics in college. This course will be of particular interest to students who wish to prepare themselves for the use of mathematics in business, economics, and the sciences.

AP STATISTICS (Level I)

2012 Grades 10, 11, 12

Full Year

4 Credits

Prerequisites: Successful completion of Honors Pre-Calculus with a B+ or higher or successful completion of Pre-Calculus with an A or higher. Alternatively, Honors Algebra II with an A or higher

This Advanced Placement course is designed for honor students with an expressed interest in the study of probability and statistics. This class exposes students to the rigors of a college level course. Advanced use of technology is required including the use of a graphing calculator.

Student enrolled in AP Probability and Statistics are required to take the AP Statistics Exam.

AP CALCULUS AB (Level I)

2013 Grades 11, 12

Full Year

4 Credits

Prerequisite: Successful completion of Honors Pre-Calculus with an A- or higher

This course covers differential and integral calculus. It begins with an introduction to graph behavior with limits. It continues to cover such topics as curve plotting with derivatives, related rates, maxima and minima problems, and methods of integration. It finished with volumes of revolution. Application problems are central theme to this course. Algebra, Geometry and Trigonometry are used extensively throughout. Graphing calculators are also used extensively. The Advanced Placement AB Syllabus is followed. **Student who are enrolled in AP Calculus AB are required to take the AP Calculus AB Exam.**

AP CALCULUS BC (Level I)

2014 Grades 11, 12

Full Year

4 Credits

Prerequisite: Successful completion of Honors Pre-Calculus with an A or higher

This course covers differential and integral calculus. It begins with an introduction to graph behavior with limits. It continues to cover such topics as curve plotting with derivatives, related rates, maxima and minima problems, volumes of revolution and methods of integration. It finishes with polynomial approximation and series. Applications problems are central to this course. Algebra, Geometry and Trigonometry are used extensively throughout. Graphing calculators are also used extensively. The Advance Placement BC Syllabus is followed. **Students who are enrolled in AP Calculus BC are required to take the AP Calculus BC Exam.**

HONORS APPLIED MATHEMATICS (Level I)

2023 Grade 12

Full Year

4 Credits

Prerequisite: Successful completion of AP Statistics and AP Calculus

Description: Students design and construct computer programs as a tool to explore various advanced mathematical principles. Through a series of sophisticated hands-on computer science projects, students investigate multiple modern research topics within diversified maths including advanced pseudo-random number generation (and several of its current applications), cryptography (including cryptographic strategies for defeating quantum code breaking), and emergent complexity (starting with Conway's Game of Life and building upon it). Students will also explore and present cutting-edge mathematical research on topics such as infinite series analysis, magnitude comparison of different types of infinities, methods of calculating pi, and fractals.

MATH ELECTIVES**ACCOUNTING I (Level II)**

2016 Grades 10, 11, 12

Full Year

2-4 Credits

This course is an introduction to financial accounting. Students will learn the basic principles and concepts needed to prepare financial records kept for a sole proprietorship and partnership business. It covers the complete accounting cycle, banking, cash payments, purchases, sales and cash receipts, and preparing and analyzing financial statements. This course is directed toward the student interested in the accounting, business, administration or office administration fields. It also will provide them with the necessary background for obtaining an entry-level position upon graduation from high school. It will provide a foundation for those students who wish to pursue a two or three year college business degree. The most current software programs will be introduced to simulate small business applications.

ACCOUNTING II (Level II)

2018 Grades 11, 12

Full Year

2-4 Credits

Prerequisites: Completion of Accounting I with a grade of C or higher

This course will cover a more in depth understanding of the financial practices and procedures introduced in Accounting I. It will cover corporate financing which includes: notes payable and receivable, depreciation, bad debts, accruals, and deferrals, uncollectible, accounts receivable, depreciation inventory notes payable and interest, accrued expenses and revenues, stocks and bonds, financial statements for financing, and analyzing reports. Software programs will be utilized for analyzing transactions and financial reports.

INTERNSHIP and COMMUNITY SERVICE PROGRAMS

The Internship Program provides high school students with the unique opportunity to explore a career while still in high school. The program is designed to:

- Encourage students to pursue careers of interests outside of the classroom.
- Offer career-based learning opportunities to help identify career pathways
- Equip students to enter the workforce with practical, marketable skills
- Offer volunteer opportunities for students to serve their communities

INTERNSHIP (Level II)

9000 Grades 11, 12

Semester/Full Year

2-8 Credits

This course is designed for students looking for professional opportunities to explore career options and build on marketable skills. Students may apply for an internship in order to gain practical knowledge and skills in a career area of interest. Students are mentored by professionals in particular areas of expertise. Internships may take place in school or off campus, during or after school hours. A few examples of internship opportunities include: art and design, veterinary work, banking, law enforcement, culinary, healthcare, elder services, education, information technology, architecture, public relations, and business. Many other job sites are available, and new opportunities can be designed specifically with each student in mind.

The program requires an internship application, a signed contract, and a learning plan which includes goals and objectives. Students work in collaboration with their mentors and the Internship and Guidance Counselor. A letter grade is awarded based on internship attendance, weekly journals, quarterly papers, written evaluations, and attendance in quarterly seminars. Credits are determined by the number of hours completed. Seminar topics may include: professional behavior, decision making, financial management, stress management, communication skills, and solving ethical dilemmas.

For more information on any of these programs, see Ms. Romeo in the Guidance Office

COMMUNITY SERVICE

9050 Grades 9, 10, 11, 12

Semester/Full Year

1 Credit

Community Service gives students the opportunity to earn 1 credit for volunteering their time in a non-profit organization that interests them. To earn 1 credit, a student must submit documentation indicating 40 hours of completed volunteer work from the organization's supervisor. Students must also complete a brief reflection paper on their experience and submit it to Guidance. Students may complete their volunteer experience during the school year or during the summer. Guidance should be consulted if the student is unsure about placement possibilities. Community Service credits will be awarded at the end of the school year and will be recorded as a Pass.

TEACHER ASSISTANT

Grades 10, 11, 12

Semester/Full Year

1-4 Credits

Prerequisite: Teacher approval and completion of Teaching Assistant Understanding Form

Occasionally, a high school student may also wish to be an assistant to a teacher when his/her schedule permits. Students who assist teachers will be awarded Community Service credit. The amount of community service credits that could be earned would be 1 credit per year. A reflection paper is also due at the end of the school year to the sponsoring teacher. Students will receive a Pass/Fail grade on their transcript.

HEALTH and WELLNESS

Participation in Health and Wellness is required of all students, including members of the interscholastic athletic teams. **Successful completion of 4 years of Health and Wellness is required for graduation.** Students are graded using a numerical grading rubric. Grades will be based primarily on active participation in class. As with all courses, grades earned in Health and Wellness count toward eligibility for honor roll, however, Health and Wellness grades are not calculated in GPA.

Students in grades 9 & 10 must successfully complete two years of Health and Wellness. Students in grades 11 & 12 may select Health and Wellness, or Health and Wellness electives listed below to complete their final two years of Health and Wellness.

HEALTH AND WELLNESS

Required: Grade 9, 10

8000 Grades 11, 12

Full Year

2 Credits

Health and Wellness is designed to give students a balance of team, partner and individual activities. The program provides a medium for individual growth and development, teaches healthy lifestyles and productive use of leisure time, and provides opportunities to work as a team with other students. Activities are divided into the categories of team sports, outdoor sports, lifetime sports, physical fitness activities, initiative tasks and group activities. Our new fitness trail and yoga classes highlight new additions to the program. Specific health education topics will be taught for two weeks per quarter as part of the wellness program for Grades 9 and 10 students. The Health units typically are calculated as 20% of the students' quarterly grade.

OUTDOOR LEADERSHIP RECREATION

8002 Grades 11, 12

Full Year

2 Credits

*Permission of Instructor: Grades 9, 10

This course will be an adventure based educational experience. This approach is experiential in nature and topics will include team building, communication, leadership, problem solving, and building self-confidence/self-esteem. Growth in this course will occur through a series of challenges that encourage each individual to establish new limits in a small group environment. Each quarter will culminate in an outdoor experience or trip that has been planned by the students based on knowledge gained in activity and classroom discussion. Students will become certified in CPR, First Aid, and AED training and will also receive water safety instruction. The students will receive information on how to guide and lead interpretive environmental trips or work as

summer camp counselors. The classes in cooperative and competitive movement challenges will consist of activities referred to as “soft” skills such as problem solving activities, initiative tasks, and adaptations to traditional games to emphasize fitness, equity, trust, and cooperation. The “hard” skills learned will include hiking, including safety and planning, snowshoeing, orienteering, archery, and outdoor survival skills such as building a snow shelter and cooking on an open fire.

YOGA

8004 Grades 11, 12

Full Year

2 Credits

*Permission of Instructor: Grades 9, 10

The yoga education high school curriculum that combines the science-based exploration of the body, mind, and self with the exercise system of yoga in order to support and enhance students’ physical, mental, emotional and social development. The practice of yoga is integrated with the study of the body’s systems, the mind-body interface, the impact of one’s behavior choices, as well as an education in health, nutrition and life skills. In addition to yoga students will participate in hands-on-cooking classes.

FAMILY AND CONSUMER SCIENCE

8007 Grades 11, 12

Full Year

2 Credits

*Permission of Instructor: Grades 9, 10

Family and consumer science class deals with the relationship between individuals, families, and communities, and the environment in which they live. There are many disciplines covered including consumer science and nutrition, food preparation, parenting, early childhood education, family economics and resource management, human development, as well as other related subjects. Family and Consumer Science Education is viewed as the focus of individuals and families living in society throughout the life span as it focuses on families and their interrelationships with the communities. Other topics such as sexual education, food management, and fire prevention might be covered.

SCIENCE and TECHNOLOGY

The Science and Technology Department at Lenox Memorial Middle and High School offers courses that directly engage students in thoughtful investigations, questioning, and design problems. With this approach, students come to an understanding of the integral relationship of scientific inquiry to scientific knowledge, and the relevance of science and the scientific process to one’s personal, academic, and employment settings. Technology courses range from those designed to provide the computer skills required for academic and employment success to those that prepare students for future careers in programming, design and engineering study. As part of your graduation requirements, students are required to pass a Science MCAS exam. The Science and Technology Department offers three potential courses that will prepare you to satisfy this requirement: Biology 9, Honors Biology 9, and Honors Physics 9. During freshman year, you will be required to take one of these three courses in preparation for the standardized exam.

BIOLOGY (Level II)

3017 Grades 9, 10

Full Year

5 Credits

This course is designed for students planning to attend a two- or four-year college or entering the world of work upon graduation from high school. The basic biological concepts of cell biology, biochemistry, genetics and evolution, anatomy and physiology, and ecology will be explored. One additional lab each week allows students to develop their observational and experimental skills as well as enhance their laboratory report writing techniques. Upon completion of the course, students are required to pass the Biology MCAS exam as a graduation requirement.

HONORS BIOLOGY (Level I)

3018 Grades 9, 10

Full Year

5 Credits

Prerequisite: B+ or higher in previous year of science and successful completion of Honors Algebra I

This challenging, in-depth program in the biological sciences is designed for highly motivated, college preparatory students. The following major fields will be explored: cell biology, biochemistry, genetics and evolution, anatomy and physiology, and ecology. Students will cover topics similar to those in Biology 9, but in much greater detail with more independent work required. This honors level course will also include more advanced topics in each field, connecting modern biological advancements and discoveries to course material. One additional lab each week allows students to develop their observational and experimental skills as well as enhance their laboratory report writing techniques. Students will complete a biology-based research paper on a topic of their choice. Upon completion of the course, students are required to pass the Biology MCAS exam as a graduation requirement.

CHEMISTRY (Level II)

3003 Grades 11, 12

Full Year

5 Credits

Prerequisite: Successful completion of Algebra I, enrollment in Algebra II or higher level math course.

Chemistry is a general introductory course focusing on how chemistry plays a role in our everyday lives. Topics include atomic models, bonding, periodicity, chemical reactions, stoichiometry, acid and bases, equilibrium, gas laws, and an introduction to organic chemistry. One additional lab about once per week will support and enrich the curriculum with hands-on experiences. Students will also learn about various career options in the field of chemistry.

HONORS CHEMISTRY (Level I)

3004 Grades 11, 12

Full Year

5 Credits

Prerequisite: B or higher in Honors Algebra I and a B or higher in Biology or Physics

Honors Chemistry covers similar topics studied in Chemistry in greater detail.

HONORS ADVANCED CHEMISTRY (Level I)

3020 Grades 11, 12

Full Year

5 Credits

Prerequisite: B+ or better in honors chemistry

Advanced Chemistry is a course designed specifically for students with an interest in research science. The first quarter will focus on advanced general chemistry topics including colligative properties, electrochemistry, thermochemistry, and chemical equilibrium. The second quarter will explore modern total organic synthesis, providing students with an understanding of current research methodology. Quarters three and four will provide students with an overview of

biochemistry. Recent advances in this exciting field put it on the forefront of many emerging technologies. The exploration of biochemistry will begin with an in-depth study of autocatalysis and a theoretical assessment of possible early self-replicating systems (origins of life). Students will discuss and analyze what it means for something to be "alive". Along these lines, students will conduct a research project (of their own design) on evolution using custom instructor-created software (EvolutionPro). The course will conclude with the study of proteins and DNA at the molecular level.

ENVIRONMENTAL EARTH SCIENCE (Level II)

3022 Grades 10, 11, 12

Full Year

5 Credits

Prerequisite: Successful completion of Biology, Chemistry or Physics

Environmental Science blends concepts from biology, chemistry, physics, geography and politics. Major areas of study include Earth systems & resources, the living world, population, land & water use, energy resources & consumption, pollution, and global change. We study local freshwater and terrestrial habitats then compare and contrast them to other areas of the world. Independent research, field studies, and citizen science projects are a major component of the class. We go outside in all seasons and all weather. Activities include designing and experimenting with techniques of growing plants in the greenhouse and in raised-bed gardens, learning about local resources. Study skills, note-taking and organization are integrated into the course.

HONORS ENVIRONMENTAL EARTH SCIENCE (Level I)

3023 Grades 11, 12

Full Year

5 Credits

Prerequisite: Successful completion of Honors Biology, Chemistry or Physics

Environmental Science is a phenomenon learning, project-based, hands-on course that explores the interactions between organisms and their natural environment, focusing on the human impact of ecosystems and the biosphere. This course blends concepts from biology, chemistry, physics, geography and politics. Major areas of study include Earth systems & resources, the living world, population, land & water use, energy resources & consumption, pollution, and global change. We study local freshwater and terrestrial habitats then compare and contrast them to other areas of the world. Independent research, field studies, and citizen science projects are a major component of the class. We go outside in all seasons and all weather. Activities include designing and experimenting with techniques of growing plants in the greenhouse and in raised-bed gardens.

HONORS INTRODUCTION TO PHYSICS (Level I)

3015 Grade 9

Full Year

5 Credits

Prerequisite: Concurrent enrollment, or successful completion of Honors Algebra I. Final grade of B+ or higher in previous year's science course.

This course is designed for students who have demonstrated success in Middle School science. Major topics of study include kinematics, dynamics, conservation laws, vibrations and waves, electricity and electromagnetism, thermodynamics, and nuclear physics. With one additional lab per week, students use computers and technology to make measurements in the laboratory, and draw conclusions about physical systems based on their observations. We use graphing and algebraic skills to make predictions about the world in which we live. Students with strong skills in algebra are best suited to this class. **Students must pass the Physics MCAS exam in the Spring as a graduation requirement.**

INTRODUCTORY PHYSICS (Level II)

3028 Grades 10, 11, 12

Full Year

5 Credits

This course is designed for students curious about the “why and how” of the natural world. Topics of study include kinematics (the study of how things move), dynamics (the study of what causes things to move in the way they do), conservation of energy and momentum, thermodynamics (how energy transfers between objects), electricity, and magnetism. Learning is inquiry-based, as students design and perform experiments to test their ideas. Formulas are used as a guide to thinking, and our use of mathematics is limited to using ratios and basic algebraic manipulations. One additional lab per week provides time for students to engage in scientific inquiry.

CONCEPTUAL PHYSICS (Level II)

3024 Grades 10, 11

Full Year

4 Credits

This course is designed for students curious about the “why and how” of the natural world. Topics of study include kinematics (the study of how things move), dynamics (the study of what causes things to move in the way they do), conservation of energy and momentum, thermodynamics (how energy transfers between objects), electricity, and magnetism. Learning is inquiry-based, as students design and perform experiments to test their ideas. One additional lab per week provides time for students to engage in scientific inquiry.

APPLIED PHYSICS (Level II)

3005 Grade 12

Full Year

4 Credits

Applied Physics is a course designed for the hands-on learner. Physical science topics such as power, torque, gear ratio, and electricity are explored in a way that minimizes mathematical rigor and maximizes experiential learning. Students interested in how their world works will find success in this course.

PHYSICS (Level II)

3006 Grades 10, 11, 12

Full Year

5 Credits

Prerequisite: Concurrent enrollment in, or successful completion of Algebra II. Final grade of C or higher in previous year’s science class.

Topics of study include kinematics, dynamics, conservation of energy and momentum, thermodynamics, electricity, and magnetism. Physics concepts will be investigated through a variety of lab experiments and student-centered activities. One additional lab per week allows students to concentrate on laboratory experiments, independent work, and projects. Emphasis is placed on problem solving, both conceptually and mathematically.

HONORS PHYSICS (Level I)

3007 Grades 10, 11, 12

Full Year

5 Credits

Prerequisite: Current enrollment in, or successful completion of Honors Algebra II. Final grade of B+ or higher in previous year’s Level I science class

This course is designed for students with strong interest and skills in science and mathematics and who expect to actively pursue a scientific course of study in college. Topics of study include kinematics, dynamics, conservation of energy and momentum, thermodynamics, electricity, and

magnetism. Students are given many opportunities to experience physical phenomena through hands-on activities and labs, and will be introduced to a variety of computer-aided analysis and learning tools. One additional lab per week allow time for in-depth studies of systems. Trigonometry and algebraic manipulations are used extensively throughout the course.

AP PHYSICS C MECHANICS (Level I)

3012 Grades 11, 12

Full Year

6 Credits

Prerequisite: Concurrent enrollment in, or successful completion of AP Calculus. Final grade of B+ or higher in previous year's Level I science course.

This is a first-year mechanics course, equivalent to a one semester calculus-based college course. Since this is an intensive analytical college-level course, motivation and mathematical achievement are crucial prerequisites. The major themes of this course are kinematics, dynamics, circular motion and rotation, oscillations, and gravitation. Topics explored in previous physical science classes will be revisited and expanded upon, emphasizing analytical skills and recognizing symmetries within systems. Two additional labs per week allow for time for in-depth laboratory investigations mandated by the College Board. Our approach to the analysis of systems is differential and integral calculus based. **Students enrolled in AP Physics C Mechanics are required to take the AP Physics-C Mechanics exam in the Spring.**

AP ENVIRONMENTAL SCIENCE (Level I)

3011 Grades 11, 12

Full Year

6 Credits

Prerequisite: Successful completion of two years of lab science. Classes include Biology, Chemistry, Physics or Environmental Science with a B+ or better and Algebra II or concurrent enrollment in Pre-Calculus or AP Probability & Statistics

The AP Environmental Science course is designed to be the equivalent of a one semester, introductory college course in environmental sciences. This is a **rigorous** science course that stresses scientific principles and analysis that includes two double lab periods in rotation schedule. In addition, it considers sociological and political perspectives. The goal of the AP Environmental Sciences course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. By the end of the course, students will be ready for the AP Environmental Science exam. **Student who are enrolled in AP Environmental Science are required to take the AP Environmental Science Exam.**

HUMAN ANATOMY AND PHYSIOLOGY (Level II)

3008 Grades 11, 12

Full Year

4 Credits

Prerequisite: Successful completion of two years of CP Biology, CP Chemistry and or CP Physics

Essential principles of human anatomy and physiology are presented in this course, including basic chemistry, cell and tissue studies, and an overview of all the body systems. This course is intended as a survey course for individuals considering entering various healthcare fields.

HONORS HUMAN ANATOMY AND PHYSIOLOGY (Level I)

3009 Grades 11, 12

Full Year

4 Credits

Prerequisite: A grade of B or higher and successful completion of two years of lab science which include: Honors Chemistry, Honors Biology and or Honors Physics.

Honors Human Anatomy and Physiology explores the systems comprising the human body by emphasizing physiological mechanisms and a thorough understanding of human anatomy. An emphasis is placed on the interrelatedness for such systems as the skeletal, muscular, nervous and circulatory. This course is recommended for those pursuing a career in the health sciences field. Laboratory experiences are integrated into the regularly scheduled class time.

EXPLORING COMPUTER SCIENCE (ECS) (Level 1)

7015 Grades 9, 10, 11, 12

Full Year

4 Credits

ECS will parallel national curriculum guidelines designed to introduce students to the exciting field of computer science. Topics to be covered include human computer interaction, problem solving, web design, introductory programming, and data analysis. The course will be engaging and largely inquiry-based. No prior knowledge of computer science is required nor expected. Students that are considering STEM related careers are highly encouraged to take this course. This course meets the technology graduation requirement.

HONORS COMPUTER SCIENCE I (Level I)

7002 Grades 10, 11, 12

Semester I

2 Credits

Prerequisite: Available to students who have earned a grade of B or higher in Algebra I. Enrollment will be limited to 12 students who are considering a career in computer science or related field.

Honors Computer Science I is designed to develop fundamental programming skills and the ability assemble large complex computer programs. The course will be taught via a series of increasingly challenging programming projects including individual and group work. Time will be given in class to work on these projects, but after school work several times per week will be expected for success. An introduction to computer hardware will also be presented.

HONORS COMPUTER SCIENCE II (Level I)

7003 Grades 10, 11, 12

Semester II

2 Credits

Prerequisite: Available for students who have a B or higher in Honors Computer Science. Enrollment will be limited to 12 students.

Honors Computer Science II will cover advanced programming concepts including artificial intelligence and fuzzy logic algorithms, language parsers, and data storage and manipulation. The course will be taught via a series of increasingly challenging programming projects including individual and group work. Time will be given in class to work on these projects, but after school work several times per week will be expected for success. Detailed hardware concepts such as logic gates will also be presented. Advanced students may choose other programming languages to explore.

ENGINEERING/ TECHNOLOGY I (Level II)

7004, 7005, 7006 Grades 9, 10, 11, 12 Semester/Full Year

2-4 Credits

This course is designed to introduce students to basic mechanical drawing and computer-aided-design (CAD). Students will work alternately on the drawing board and the computer throughout the year, learning how to prepare and present technical information in a way that mimics how today's design/drafters work in industry. Areas of concentration in mechanical drawing include: orthographic projections, pictorial views, section views, and dimensioning. CAD work will be done primarily using Sketchup Pro 2018 and Layout 2018, with concentration on 3D solid modeling of parts and assemblies (examples include 3D puzzles, truss bridges, and model airplanes), and the creation of working and assembly drawings.

ENGINEERING/ TECHNOLOGY II (Level II)

7007, 7008, 7009 Grades 10, 11, 12 Semester/Full Year

2-4 Credits

Prerequisite: Engineering/Technology I

This project-based course is designed to introduce students to the world of design and model making. Students will expand their CAD skills using Sketchup Pro 2018 and AutoDesk Inventor 2018. Throughout the year students will build projects with their hands using traditional manual modeling tools. They will also learn how to operate the CNC router, the laser cutter, and 3D printers, and will learn how to cast plastic parts by creating one- and two-part molds.

ENGINEERING / TECHNOLOGY III/IV (Level II)

7010, 7011, 7012 Grades 11, 12 Semester/Full Year

2-4 Credits

Prerequisite: Engineering/Technology II

Students with an avid interest in furthering their education in a technical field may elect to take this course, as they will be exposed to a suite of disciplines, including mechanical engineering, electrical engineering, computer science, and design. They will learn how to program Arduino microcontrollers and will use them to build autonomous and remote-controlled machines. Capstone projects will integrate and showcase multiple skillsets from Eng/Tech I-IV.

SOCIAL STUDIES

A critical study of society -- both past and present -- is essential for understanding people, the world, and change. With an emphasis on depth over breadth and skills over content, LMMHS students explore a range of topics, applying rigorous research practices to ask questions, examine evidence, consider context, and create meaning. Integration with English-department objectives supports the development of critical reading, writing and analytical skills.

While many courses are elective, students must complete both World History (4 credits) and US History (4 credits) as well as an additional four credits in Social Studies in order to graduate. Students are strongly encouraged to enroll in the following full sequence: 9th Grade World History, 10th Grade Early US History, 11th Grade US History/American Studies, and 12th Grade Humanities.

Both US History/American Studies and Humanities are interdisciplinary programs and require cross-registration with English.

WORLD HISTORY (Level II)4000 Grade 9
Required

Full Year

4 Credits

This course examines the social, economic, and political histories of Europe, Africa, Asia, and more from the 17th century to the present. Specific topics include the study of the Enlightenment, the Industrial Revolution, Imperialism, and World War I and II. Individual skills will concentrate on learning geography, reading, writing, presentation, cultural appreciation, and critical thinking.

College preparatory courses include homework approximately 2-3 times a week, regularly scheduled quizzes, unit tests, projects, short essays, and writing assignments in class. Students are expected to participate actively in class discussion as well as work cooperatively with their peers.

HONORS WORLD HISTORY (Level I)4001 Grade 9
Required

Full Year

4 Credits

Prerequisite: Students may enroll in honors level after receiving a B+ in a previous history class.

This course examines the social, economic, and political histories of Europe, Africa, Asia, and more from the 17th century to the present. Specific topics include the study of the Enlightenment, the Industrial Revolution, Imperialism, and World War I and II. Individual skills will concentrate on learning geography, reading, writing, presentation, cultural appreciation, and critical thinking.

Honors courses include homework approximately 3-4 times a week, regularly scheduled quizzes, unit tests, projects, short essays, and independent writing assignments in class. Although it covers the same content as the college preparatory course, the honors course is more rigorous. It consists of higher level readings, more in depth discussions, and longer writing assignments. Students are expected to participate actively in class discussion as well as work cooperatively with their peers.

EARLY UNITED STATES HISTORY (Level II)

4021 Grade 10

Full Year

4 Credits

This course examines the political, social, cultural, and economic histories of Europe and the American colonies, and of the eventual United States. Students will discover the important sequence of events from the rise of the United States to its Civil War (1450-1860). Throughout the year, students will also keep up with current events. This class will involve heavy discussion and working with peers. Students will also be expected to complete substantial writing assignments independently. Reading, research, and writing skills will all be sharpened during these studies.

HONORS EARLY UNITED STATES HISTORY (Level I)

4022 Grade 10

Full Year

4 Credits

Prerequisite: Students may enroll in honors level after receiving a B+ in a previous history class.

This honors course will delve deep into the developments from pre-contact North America to the Civil War (1450-1860). While discovering the historic sequence that led the United States to

independence, students will examine European history and its influence within the colonies. Students will study the social and cultural influences that created the United States and how they affect our society today. Throughout the year, students will analyze connections between historic events and current affairs. This honors course is demanding and requires extensive reading and analysis, extended writing assignments, and challenging discussion. Reading, research, and writing skills will all be sharpened during these studies. The year will end with a final research paper that will prepare students for future Humanities courses.

UNITED STATES HISTORY/AMERICAN STUDIES (Level II)

Required for Graduation

4004 Grade 11

Full Year

4 Credits

This course focuses on American history from 1860-present. It emphasizes the essential question "what does it mean to be an American?" and all of the ways that potential answers to this question differ based on time and place. It seeks to teach students about the ideas that form our unique way of life, and their duties and rights as part of it. The course is based on classroom discussion, and students are expected to assume responsibility for independent work and thought. Reading assignments prepare them for discussion by giving them the facts and ideas they will need to form opinions and judgments. Writing assignments, including an independent research paper, require them to write with precision and persuasion. This course is taught in conjunction with American Literature and includes at least four co-taught assignments.

HONORS UNITED STATES HISTORY/AMERICAN STUDIES (Level I)

Required for Graduation

4005 Grade 11

Full Year

4 Credits

Prerequisite: Students may enroll in honors level after receiving a B+ in a previous history class.

Students are advised to select this course if they intend to take Humanities in Grade 12. This course focuses on American history from 1860-present. It emphasizes the essential question "what does it mean to be an American?" and all of the ways that potential answers to this question differ based on time and place. It seeks to teach students about the ideas that form our unique way of life, and their duties and rights as part of it. The course is based on classroom discussion, and students are expected to assume responsibility for independent work and thought. Reading assignments prepare them for discussion by giving them the facts and ideas they will need to form opinions and judgments. Writing assignments, including a college-level research paper, require them to write with precision and persuasion. This course is taught in conjunction with American Literature and includes at least four co-taught assignments.

SOCIAL STUDIES ELECTIVES

HONORS HUMANITIES (Level I)

1006 Grade 12

Full Year

8 Credits

(4 Credits for English and 4 Credits for Social Studies)

Prerequisite: Successful completion of American Literature and U.S History (or, for transfer students, the equivalent)

Humanities investigates the types of communities -- political, social, moral, and religious -- that human beings have constructed for themselves and studies the various ways in which subjects navigate such terrain, both as citizens and individuals. From Ancient Greece to the contemporary U.S., the course will consider the literary, historical philosophical, and art and architectural

expressions of what has been defined as the “Western Tradition.” Much more than an overview of these classic works, Humanities encourages students to think critically about this tradition, and even strives to appreciate and understand the current relevance of what can seem to be historically and culturally remote. Why did previous generations value these works so highly? How are these writers and artists in conversation with each other? How are these works relevant to our own lives and what can we gain from them? What does it mean to be virtuous? What is the purpose, if any, of beauty? What does it mean to acquire knowledge? What makes a person or a society just? Students will grapple with these and other questions in conversations and lengthy writing assignments, with a particular interest in preparing students for the rigorous literary and historical analysis expected of them beyond high school.

PSYCHOLOGY (Level II)

4008 Grades 11, 12

Semester

2 Credits

Prerequisite: Completion of Early US History and either completion of or current enrollment in United States History/American Studies

Why do we do the things we do? What defines who we are and determines how we act? Is it nature or nurture that governs our actions, thoughts, and behavior? And how do researchers go about investigating the answers to these questions? Through the study of psychology, students gain an understanding of human thought and behavior, as well as the factors that determine the differences between people. The theories of leading Psychologists are investigated, as are such topics as the mind, brain, and body, memory, social cognition, human development, and abnormal psychology. Students will study famous experiments, conduct their own, and dive deep into modern concepts in Psychology to gain an understanding of why humans do what they do. This is a heterogeneous course. Students taking it for honors credit will need to complete an independent research project at the end of the semester in addition to supplemental readings throughout the semester.

HONORS PSYCHOLOGY (Level I)

4009 Grades 11, 12

Semester

2 Credits

Prerequisite: Completion of Early US History and either completion of or current enrollment in United States History/American Studies

Why do we do the things we do? What defines who we are and determines how we act? Is it nature or nurture that governs our actions, thoughts, and behavior? And how do researchers go about investigating the answers to these questions? Through the study of psychology, students gain an understanding of human thought and behavior, as well as the factors that determine the differences between people. The theories of leading Psychologists are investigated, as are such topics as the mind, brain, and body, memory, social cognition, human development, and abnormal psychology. Students will study famous experiments, conduct their own, and dive deep into modern concepts in Psychology to gain an understanding of why humans do what they do. This is a heterogeneous course. Students taking it for honors credit will need to complete an independent research project at the end of the semester in addition to supplemental readings throughout the semester.

CONTEMPORARY ISSUES (Level II)

4012 Grades 9, 10, 11, 12

Semester

2 Credits

Contemporary Issues will focus on current divisive topics through the lens of sociology, political science, and economics. Students will be assigned positions on different topics throughout the course and be responsible for researching and debating the issues with their peers. Another focus of this course will be how we consume our news. Students will analyze a variety of news sources for reliability and integrity throughout the course.

HONORS CONTEMPORARY ISSUES (Level I)

4013 Grades 9, 10, 11, 12

Semester

2 Credits

Contemporary Issues will focus on current divisive topics through the lens of sociology, political science, and economics. Students will be assigned positions on different topics throughout the course and be responsible for researching and debating the issues with their peers. Another focus of this course will be how we consume our news. Students will analyze a variety of news sources for reliability and integrity throughout the course.

POP CULTURE (Popular Culture in the United States: 1893-2016) (Level II)

4017 Grades 11, 12

Semester

2 Credits

Let's explore the history of American music from Louis Armstrong to Miley Cyrus, radio and television from the *Green Hornet* to *Modern Family*, advertising, magazines, film from Charlie Chaplin to *Straight Outta Compton*, and the Internet. This course offers an introduction to the study of everyday cultures in the United States since the end of the 19th century. What is popular culture and how does it effect and shape concepts of race, gender, sexuality, and class. Students will demonstrate their comprehension and mastery of course material through group activities, quizzes, exams, writing assignments, and class participation.

HONORS POP CULTURE (Popular Culture in the United States: 1893-2016) (Level I)

4018 Grades 11, 12

Semester

2 Credits

Let's explore the history of American music from Louis Armstrong to Miley Cyrus, radio and television from the *Green Hornet* to *Modern Family*, advertising, magazines, film from Charlie Chaplin to *Straight Outta Compton*, and the Internet. This course offers an introduction to the study of everyday cultures in the United States since the end of the 19th century. What is popular culture and how does it effect and shape concepts of race, gender, sexuality, and class. Students will demonstrate in more depth and length their comprehension and mastery of course material through group activities, quizzes, exams, writing assignments, and class participation.

SOCIOLOGY (Level II)

4019 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of or current enrollment in Early US History

What impact does culture have on human behavior and interactions? What roles do money, class, gender, age, ethnicity, and race play in our behavior, attitudes, and interactions? These are just a few of the questions explored in this course. Through examining these topics, students broaden their understanding of their role in society and how to effect change. This is a heterogeneous course.

HONORS SOCIOLOGY (Level I)

4020 Grades 10, 11, 12

Semester

2

Credits

Prerequisite: Completion of or current enrollment in Early US History

What impact does culture have on human behavior and interactions? What roles do money, class, gender, age, ethnicity, and race play in our behavior, attitudes, and interactions? These are just a few of the questions explored in this course. Through examining these topics, students broaden their understanding of their role in society and how to effect change. This is a heterogeneous course. Students taking it for honors credit will need to complete an independent research project at the end of the semester in addition to supplemental readings throughout the semester.

INTRODUCTION TO ECONOMICS (Level II)

4028 Grades 9, 10, 11, 12

Semester

2 Credits

Over the course of the semester, students will gain a greater understanding of both micro- and macroeconomics. It will focus on subjects such as supply and demand, labor economics, international trade, poverty and discrimination, and how countries work with one another on a global scale. Students will also examine the interrelationship between government, the economy, and society itself. In addition, a deeper look at the economic systems of Capitalism, Socialism, and Communism will be studied. This course will be offered to students of all grades and will be heterogeneous.

HONORS INTRODUCTION TO ECONOMICS (Level I)

4029 Grades 9, 10, 11, 12

Semester

2 Credits

Over the course of the semester, students will gain a greater understanding of both micro- and macroeconomics. It will focus on subjects such as supply and demand, labor economics, international trade, poverty and discrimination, and how countries work with one another on a global scale. Students will also examine the interrelationship between government, the economy, and society itself. In addition, a deeper look at the economic systems of Capitalism, Socialism, and Communism will be studied. This course will be offered to students of all grades and will be heterogeneous. Students who would like to get honors credit must do an independent research project at the end of the semester.

THE HISTORY OF HOLOCAUST & GENOCIDE (Level II)

4030 Grades 11, 12

Semester

2 Credits

Prerequisite: Completion of Early US History

Throughout this course we will examine the events leading up to, during, and following the genocides of the twentieth century, particularly the Holocaust of European Jewry. The course will be divided roughly into the following units: (I) European Jewry and the roots of Anti-Semitism (II) Why Germany? (III) The Holocaust (IV) Aftermath and the legacy of the 20th century genocide. This last unit will examine in detail the genocides of Armenia, Cambodia, Bosnia, Rwanda, and Darfur. There will be a strong emphasis placed on the use of primary sources and narratives, as well as film. Students are expected to work maturely with explicit material, and as such the course is not open to ninth or tenth grade students.

HONORS THE HISTORY OF HOLOCAUST & GENOCIDE (Level II)

4031 Grades 11, 12

Semester

2 Credits

Prerequisite: Completion of Early US History

Throughout this course we will examine the events leading up to, during, and following the genocides of the twentieth century, particularly the Holocaust of European Jewry. The course will be divided roughly into the following units: (I) European Jewry and the roots of Anti-Semitism (II) Why Germany? (III) The Holocaust (IV) Aftermath and the legacy of the 20th century genocide. This last unit will examine in detail the genocides of Armenia, Cambodia, Bosnia, Rwanda, and Darfur. There will be a strong emphasis placed on the use of primary sources and narratives, as well as film. Students are expected to work maturely with explicit material, and as such the course is not open to ninth or tenth grade students. Students taking this heterogonous course for honors credit will need to complete an independent research project at the end of the semester in addition to supplemental readings throughout the semester.

MODERN MIDDLE EAST

4032 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of or current enrollment in Early US History

Throughout this course we will examine the history, politics, and international relations of the Modern Middle East. We will trace the region's history of imperialism after World War I, consider the effects of decolonization, leading our studies to the modern states, their leaders, and their relationships with one another. We will also examine the Arab Spring, the rise of radicalist groups in the region, and various other recent events that have shaped some of the conflicts and progress in the region. Finally, we'll keep up with headlines from the Middle East and gain an understanding of current events in the region.

HONORS MODERN MIDDLE EAST

4033 Grades 10, 11, 12

Semester

2 Credits

Prerequisite: Completion of or current enrollment in Early US History

Throughout this course we will examine the history, politics, and international relations of the Modern Middle East. We will trace the region's history of imperialism after World War I, consider the effects of decolonization, leading our studies to the modern states, their leaders, and their relationships with one another. We will also examine the Arab Spring, the rise of radicalist groups in the region, and various other recent events that have shaped some of the conflicts and progress in the region. Finally, we'll keep up with headlines from the Middle East and gain an understanding of current events in the region. This is a heterogonous course. Students taking it for honors credit will need to complete an independent research project at the end of the semester in addition to supplemental readings throughout the semester.

SPECIAL EDUCATION

ACADEMIC REINFORCEMENT

0004, 0005, 0006 Grades 9, 10, 11, 12 Full Year

2-4 Credits

Academic Reinforcement is offered in the high school Learning Lab for students who have been identified as having a diagnosed disability, in accordance with federal and state regulations. Specialized, direct instruction in the area(s) of disability is provided through content and supplemental materials. In some cases, students are scheduled for direct, remedial classes in addition to content classes. Emphasis of instruction is on continued skill development and remediation relative to identified disability(ies), including, but not limited to, progress monitoring, transition/postsecondary planning, strategies for study skills, and test taking. Students receive 2 credits for twice a week or 4 credits for four times per week, which count as elective credits.

Any high school student may seek assistance in the Learning Lab outside of the regulation requirements on an as-needed basis (without credit), based on instructor availability.

Co-Curricular and Extra Curricular Activities

Arabic Club	Gender Sexuality Alliance	Peer Mentors
Art Club	Girl Empowerment Matters	Photography Club
As School Match Wits	Going Places	Quiz Team
ASAP	Investment Club	Robotics
Cacophony & Murmurs	Improv Club	SADD
Chess Club	JAM Club	SAVE
Climate Crisis Control Club	Latin Club	Sequence
Computer Programing Club	Lenox Dispatch	Shakespeare & Company
Cooking Club	Math Club	Spanish Club
Creative Writing Club	Mock Trial	Spanish Guitar Club
Dance Club	Mountain Bike Club	Student Council
Euro Challenge Club	Music Natl Honor Society	Student Newspaper
Evergreen Club	National Art Honor Society	Student Relief Club
French Cine Club	National Honor Society	Student's Who Occasionally Role Dice Club
French Club		Ultimate Frisbee
HS Cine Club		Yearbook

Sports

<u>FALL</u>	<u>WINTER</u>	<u>SPRING</u>
Boys' and Girls' Soccer	Girls' and Boys' Basketball	Boys' and Girls' Tennis
Co-Ed Cross Country Running	Co-Ed Alpine Skiing	Softball
Girls' Volleyball	Co-Ed Nordic Skiing	Baseball
Co-Ed Golf	Wrestling (Co-op)	Co-Ed Track
Co-Ed Crew	Swimming (Co-op)	Boys' and Girls' Lacrosse (Co-op)
Football (Co-op)	Hockey (Co-op)	Crew

Academic Eligibility

A student must secure during the last marking period preceding the contest (e.g. second quarter marks and not semester grades determine third quarter eligibility) a passing grade, and full credit, in the equivalent of four traditional yearlong major English courses. A transfer student may not gain academic eligibility if he/she was not, or would not be, eligible at the sending school, unless transfer was necessitated by a move of parents and then eligibility would be determined by receiving schools eligibility standards.

In addition:

- A student who repeats a course in which s/he has already received credit cannot count that subject a second time for eligibility
- Courses taken during the summer vacation, unless that course was previously taken and failed, do not count toward eligibility
- Students receiving services under Chapter 766 whose Individualized Education Plan is a 502.4 or more restrictive prototype may be declared academically eligible by the principal provided that all other eligibility requirements are met.

SCHOOL REQUIREMENTS

Attendance

Students are expected to be in school on time (no later than 8:40 a.m.) and to remain in school for the entire day. Students with an excused tardy must be in attendance prior to the start of second period in order to participate in an athletic activity. Any student who must leave school before the completion of the school day must have permission from his/her parent/guardian and from the principal or athletic director in order to practice or play on that day.

Field trips

Students attending a field trip are considered to be in school for the day and are eligible to play or practice that day. However, if the field trip will extend beyond the school day, athletes are expected to fulfill their academic obligations before their athletic activity. If conflicts arise, athletic contests will be rescheduled when possible. If a student is unable to avoid a conflict and a special circumstance exists, he/she may appeal the rule with the principal and the athletic director.

Behavior

Because athletics is a privilege and student-athletes need to have good standing within the school, any student-athlete who has repeated behavioral referrals within one sports season will meet with the Dean of Students, the Coach and the Athletic Director and any other personnel needed to discuss the behavioral concerns and develop an appropriate plan. This meeting may result in suspension from practices or games or expulsion for the season.