GENERAL INFORMATION

General Requirements

- 27.5 credits and 12 terms of attendance

**** Transfer students credit requirements may differ ****

- Two and a half (2.5) credits per term, but no more than three and a half (3.5) credits per term (unless approved by Administration)

Hamilton High School awards credits for each year-long class completed in the following areas:

Teacher Assistant	3.0 credits
Co-op	3.0 credits
Tech Center	3.0 credits
Band	1.5 credits
Choir	1.5 credits
Writing for Publication	1.5 credits
All AP Classes	1.5 credits (U.S. Govt. AP – 1.0 credit)

All other classes completed will be awarded .5 credits per term.

Academic Requirements

4.0 credits of English
3.5 credits of Social Studies
3.0 credits of Science
4.0 credits of Math
.5 credits of Computers
.5 credits of ACT Prep
.5 credits of PE
.5 credits of Health
1.0 credits of Visual/Performing/Applied Arts

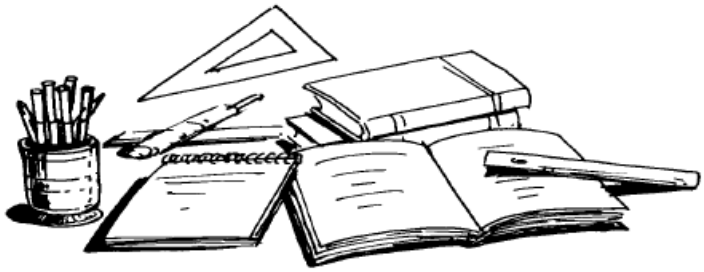
Early Graduation

A senior meeting the requirement of 27.5 credits could graduate early if the following steps are completed:

1. A student must apply for early graduation before beginning his/her final year. The student must write an account of his/her reasons for early graduation and show adequate evidence that it would be more beneficial to graduate early than to remain in school for twelve (12) terms (Enrollment for advanced schooling or advanced training for an occupation would usually constitute sufficient reason.).

2. The parent or legal guardian must also give approval.

3. The student receiving permission for early graduation would receive his/her diploma at the graduation ceremonies at the end of the regular school year.



CREDIT REPEAT

All high school subjects will be recorded on the student's high school transcript. A student who feels he/she has done poorly on term grades in a course, or does not feel he/she is adequately prepared for the next course in sequence (this does not include failing a course) and would like to repeat a particular course, the following rules will apply:

- The first marks will be eliminated and the second marks will be recorded on the student's file.
- Graduation credit will be given only for the second marks.
- Students may only retake the exact course at the next available term that the class is offered.
- Eighth graders who take high school courses (Spanish I, German I, PATH, On-line) will have their grade recorded on their high school transcript.

TESTING OUT

PS 335, Section 1279B0 requires school districts to provide students with the opportunity to "Test Out" of high school courses. The following guidelines provide information for this opportunity:

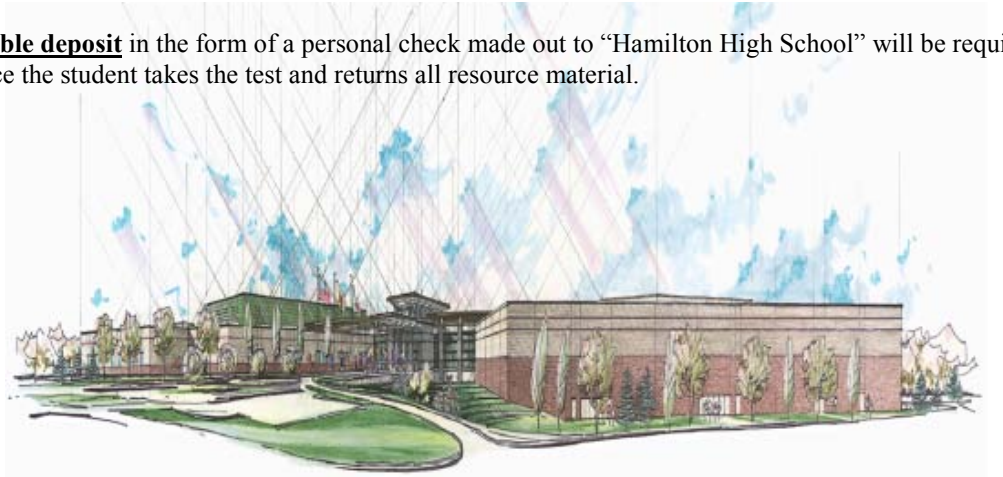
1. Students must demonstrate mastery of course content expectations. The assessments used to demonstrate mastery may consist of a final exam, portfolio, written papers, projects, and/or presentations. Hamilton High School requires a minimum grade of 77% in the Test Out assessments.

2. Credit earned is based on a 'credit only' grade and will appear on the student's transcript as a 'CR'. Any Test Out credit will not affect the student's grade point average (GPA). Credit earned does count towards graduation. Successful completion of a Test Out course closes the opportunity of obtaining credit in a lower course at a later date.

3. Test Out forms are available in the High School Counseling Office and must be returned to the High School Counseling Office Secretary by the 2nd Friday in May. **All exams must be taken during the first week after school is out in June.** Arrangements for the final exam must be made through the High School Counseling office. **Other course assessment material must be turned in by the Friday before the Fourth of July.** The one exception is 8th graders who wish to test out of Algebra 1 – these students should work with their 8th grade Algebra teachers.

4. A student will have only one opportunity to 'Test Out' of a specific course.

5. A **$25 refundable deposit** in the form of a personal check made out to "Hamilton High School" will be required. The check will be returned once the student takes the test and returns all resource material.



The Hamilton Community Schools System does not discriminate on the basis of race, color, religion, sex, national origin, age, height, weight, marital status, handicap, disability, or limited English proficiency in any of its programs or activities. The following office has been designated to handle inquiries regarding the nondiscrimination policies:
Human Rights Office
Hamilton Community Schools
4815 136th Ave
Hamilton, MI 49419

NCAA FRESHMAN-ELIGIBILITY STANDARDS QUICK REFERENCE SHEET

KNOW THE RULES:

Core Courses

- **NCAA Division I requires 16 core courses as of August 1, 2008**. This rule applies to any student first entering any Division I college or university on or after August 1, 2008. See the chart below for the breakdown of this 16 core-course requirement.
- **NCAA Division II requires 14 core courses.** See the breakdown of core-course requirements below. Please note, Division II will require 16 core courses beginning August 1, 2013.

Test Scores

- **Division I** has a sliding scale for test score and grade-point average. The sliding scale for those requirements is shown on page two of this sheet.
- **Division II** has a minimum SAT score requirement of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the four sections on the ACT: English, mathematics, reading and science.
- **All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.**

Grade-Point Average

- Only core courses are used in the calculation of the grade-point average.
- **Be sure** to look at your high school's list of NCAA-approved core courses on the Eligibility Center's Web site to make certain that courses being taken have been approved as core courses. The Web site is www.eligibilitycenter.org.
- **Division I** grade-point-average requirements are listed on page two of this sheet.
- **The Division II** grade-point-average requirement is a minimum of 2.000.

DIVISION I
16 Core-Course Rule

16 Core Courses:

4	years of English.
3	years of mathematics (Algebra I or higher).
2	years of natural/physical science (1 year of lab if offered by high school).
1	year of additional English, mathematics or natural/physical science.
2	years of social science.
4	years of additional courses (from any area above, foreign language or nondoctrinal religion/philosophy).

DIVISION II
14 Core-Course Rule

14 Core Courses:

3	years of English.
2	years of mathematics (Algebra I or higher).
2	years of natural/physical science (1 year of lab if offered by high school).
2	years of additional English, mathematics or natural/physical science.
2	years of social science.
3	years of additional courses (from any area above, foreign language or nondoctrinal religion/philosophy).

PLEASE NOTE: Beginning August 1, 2013, students planning to attend an NCAA Division II institution will be required to complete 16 core courses.

OTHER IMPORTANT INFORMATION

- Division II has no sliding scale. The minimum core grade-point average is 2.000. The minimum SAT score is 820 (verbal and math sections only) and the minimum ACT sum score is 68.
- 14 core courses are currently required for Division II. However, beginning 2013, students will be required to complete 16 core courses.
- 16 core courses are required for Division I.
- The SAT combined score is based on the verbal and math sections only. The writing section will not be used.
- SAT and ACT scores must be reported directly to the Eligibility Center from the testing agency. Scores on transcripts will not be used.
- Students enrolling at an NCAA Division I or II institution for the first time need to also complete the amateurism questionnaire through the Eligibility Center Web site. Students need to request final amateurism certification prior to enrollment.

For more information regarding the rules, please go to www.NCAA.org. Click on "Academics and Athletes" then "Eligibility and Recruiting." Or visit the Eligibility Center Web site at www.eligibilitycenter.org.

Please call the NCAA Eligibility Center if you have questions:

Toll-free number: 877/262-1492.

NCAA Eligibility Center
06/18/09 LK:cr

NCAA DIVISION I SLIDING SCALE
CORE GRADE-POINT AVERAGE/
TEST-SCORE
New Core GPA / Test Score Index

Core GPA	SAT (Verbal and Math ONLY)	ACT
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

APPLIED TECHNOLOGY DEPARTMENT

ENGINEERING DESIGN 1 (1 term) **VPAA approved**
Interested in Engineering? An Introduction to Engineering Design with SolidWorks software introduces students to the engineering design process utilizing 3D Computer Aided Design (CAD). Topics covered in Engineering Design are: Sketching , 3D Modeling, Part Drawing, Assembly Drawing, Visualization, and Rapid Prototyping.
Requirements: Materials fee will be charged.
Prerequisite: Technical Drafting

ENGINEERING DESIGN 2 (1 term) **VPAA approved**
This course supports students developing their 3D skills in SolidWorks. The F1 Design Project helps students learn how to apply 2D and 3D modeling principles and techniques to create a Race car assembly and drawing. Students design and assemble solids, and review and discuss the 14 challenges facing engineering as outlined by the National Academy of Engineers.
Requirements: A materials fee will be charged.
Prerequisite: Engineering Design 1

ROBOTICS 1 (1 term) **VPAA approved**
This course is an introductory course in general robotics. This course is open to all students. Robotics is taught in a step-by-step fashion that assumes no prior knowledge of robotics by the student. Basic robotic concepts are introduced and immediately followed by an activity or project to reinforce the materials covered in the core lesson. Each section builds upon the knowledge gained in the previous sections. Lessons are presented on an electronic program that contains animations, interactive graphics, as well as quizzes and tests. Participation in FIRST Robotics in January through March is encouraged but not required.
Prerequisite: At least a C- in all math classes taken.

TECHNICAL DRAFTING (1 term) **VPAA approved**
Technical Drafting offers opportunities to acquire basic skills in drafting using hand drawings and 2D CAD software. Students acquire a working knowledge of industrial design processes, improve spatial perception, and practice the language of real world industrial communication. This class is necessary for opening doors for communications in product design, engineering, manufacturing trades and business.
Requirements: Materials fee will be charged.

Note: Any student who has taken Mechanical Drawing in the past cannot take Technical Drafting for additional credit.

Previous CAD students will be allowed to take Engineering Design 1 and 2.

ART DEPARTMENT

INTRODUCTION TO ART (1 term) **VPAA approved**
This course is designed for the artistic and non-artistic student, alike. It is an introduction to basic drawing techniques, such as perspective, freehand, shading, etc., and painting (color theory). This class will also incorporate basic design principles. Introduction to Art provides a strong foundation for more advanced techniques and materials used in the higher level classes.

DRAWING 1 (1 term) **VPAA approved**
This course introduces higher levels of drawing materials and techniques. Some of the featured drawing mediums include colored pencil, ink, charcoal, and graphite.
Prerequisite: Introduction to Art

PAINTING 1 (1 term) **VPAA approved**
This course introduces higher levels of painting materials and techniques. Some of the featured painting mediums include tempera, oil pastels, watercolor, and acrylics.
Prerequisite: Introduction to Art

ART IN 3-D (1 term) **VPAA approved**
Students create fun, unique art that has height, width, and depth. Some of the featured materials include clay, paper mache', and foam core creations.
Prerequisite: Introduction to Art

CLAY 1 (1 term) **VPAA approved**
This course will cover pinch and coil handbuilding techniques, slab construction, and wheel thrown clay. Students will demonstrate mastery of each technique and then proceed to design and execute student-generated ideas focused on form, function, and aesthetic appeal.
Prerequisite: Introduction to Art

DRAWING 2 (1 term) **VPAA approved**
Using the skills and materials learned from previous courses, the student would be using more advanced creative processes in the design of their drawing projects.
Prerequisite: Drawing 1

PAINTING 2 (1 term) **VPAA approved**
This course takes the student's painting to the "next level" by introducing advanced acrylic and oil paint techniques on such surfaces as stretched canvas, masonite panels, and glass. In addition, an even stronger emphasis is placed on the individual creative process.
Prerequisite: Painting 1

PORTFOLIO ART (1 term) **VPAA approved**
This course is designed for the student who wishes to create or enhance their personal art portfolio in order to possibly apply to a college art program. Each student is on an individual program co-designed by themselves and the teacher.
Prerequisite: An A or A- in either Drawing 2 or Painting 2

* Only one (1) Art course is allowed per term.

VPAA approved courses:
(Visual, Performing, Applied Arts)

Introduction to Art
Drawing 1
Painting 1
Art in 3-D
Clay 1
Drawing 2
Painting 2
Portfolio Art

Web Design

Engineering Design 1
Engineering Design 2
Robotics 1
Technical Drafting

Band
Honors Choir
Jazz Band
Music Theatre Chorus
Women's Chorale
Music Composition

* some Tech Center programs also qualify – see your Counselor for details.

BUSINESS DEPARTMENT

ACCOUNTING 1 (2 terms) **SME approved**
This course is designed to aid the student in learning how accounting is an important part of their daily life. Accounting is the "Language of Business." Students can use this accounting information to make personal financial decisions about how to earn a living and how to use their personal income. The Accounting 1 class can help you prepare to own your own business, can get you ready for a business - related career, or can get you ready for advanced study in college accounting. Included is a complete study of personal income tax using the 1040EZ, 1040A, and the 1040 Tax forms.
Open to 10th, 11th, and 12th graders.

BUSINESS LAW (1 term)
This course introduces the fundamentals of law as they apply to business and daily life. There will be heavy emphasis on understanding how today's law impacts us as consumers and citizens. Students will learn how and where to research answers, learn to reason legally, and speak in legal terms. Major topics of the course will include: an overview of our legal system, Contract Law, Ethics, Law of Sales, Consumer Protection, Ownership, and Renting Realty.
Open to 10th, 11th, and 12th graders.

BUSINESS OWNERSHIP (1 term)
This course is designed to help students explore the many opportunities that await them should they choose to operate their own business. Students will study the qualifications needed to be a successful business owner, the types of ownership, develop a business plan to open and operate a business, learn about record-keeping and accounting, the uses of technology for running a business, marketing techniques, and hiring and managing a staff. Students will also hear from many experts, such as current business owners and bankers. They will also view videotapes and have hands-on projects to bring together what they are studying with "real world" examples and experiences. A computer simulation will also be presented to duplicate the running of a business, and to give students a hands-on experience.
Open to 10th, 11th, and 12th graders.

CAREER DEVELOPMENT (1 term)
This course will prepare students for the school-to-work transition. Students will complete self and career assessments, explore and research one or more careers, and develop a career plan for their future. This class will utilize DVDs, written materials, newspapers, guest speakers, and class discussions to enhance the students' awareness of career opportunities and the employment skills necessary to obtain their desired career. The employment skills will include the following: How and Where to Find a Job, Writing a Resume, Writing a Letter of Application, Interviewing Skills, Filling Out Job Application Forms, Thank You Notes, Personality Development for Work, How to Keep a Job, as well as Writing a Resignation Letter. Job Shadowing will also be required so the student can interview and work with someone in the field, and see first-hand what a day on the job is like.
Open to 10th, 11th, and 12th graders.

COMPUTERS 1 (1 term)
Students will demonstrate the use of a computer using the Microsoft Office computer applications. In this course the students will create well written, visually pleasing documents using Microsoft Word, enter data, format, create formulas using functions, and graph data using Excel, and will also use various techniques to create meaningful presentations using PowerPoint. This course will be set up as on on-line experience to meet requirements of the Michigan Merit Curriculum.

COMPUTERS 2 (1 term)
Extending skills mastered in Computers 1, students will learn advanced functions and integration of Microsoft Word, Excel, and PowerPoint.
Recommended to students who have a C or better in Computers 1

CONSUMER SKILLS (1 term)
This course is designed to help students learn the skills and knowledge needed to become an educated, responsible consumer in our global society. Students will learn to make personal decisions related to purchasing products on the Internet (technology, groceries, clothes, cars, a home, and renting an apartment), and an awareness of Internet security and scams. Students will learn about payroll taxes and how to complete their own income tax return. Purchasing insurance and the costs associated will be included for a home, auto, renters, health, and life. The class will use several strategies and methods to teach and illustrate the concepts with Videos/DVD's, guest speakers, computer projects, and a comprehensive text. The Internet, newspapers, magazines, and other sources will be used to gather and analyze consumer tips and pertinent information related to the curriculum.
Open to 10th, 11th, and 12th graders.

JAVASCRIPT (1 term)
Students will begin by studying/reviewing the concepts of HTML, XHTML, and Cascading Style Sheets. Students will then learn basic and advanced features in JavaScript such as operators, expressions, arrays, loops, and conditional statements. Students will use all of this information to create dynamic web pages. **Note: Any student who has taken Computers 3 in the past cannot take JavaScript for additional credit.**
Recommended to students who have previous computer experience
Open to 10th, 11th, and 12th graders.

MARKETING (1 term)
Be a part of running the school store, Hawks Landing. Students will help make decisions about new products, work with a cash register, make a TV commercial, and much more. Marketing is exciting, important, and profitable! Businesses, consumers, and our entire economy benefit from marketing. This course will offer an overview of the activities that are a part of retail selling. Students will develop an understanding of basic business concepts, such as financing, buying, sales, promotion, displays, careers, and other business operations. Students gain experiences through class work and various assignments in running and staffing the Hawks Landing school store. Students will be required to work outside of class in the school store.
Open to 10th, 11th, and 12th graders.

BUSINESS DEPARTMENT CONTINUED

WEB DESIGN (1 term) **VPAA approved**
Web Design will give students the opportunity to learn the web design application DreamWeaver CS5. Using this application, students will learn how to effectively develop a website and organize its contents by studying the different assets of a web page. Topics include: planning a web site, developing a web site, using and viewing HTML code, using CSS styles, using and managing images in a web site, and creating links and navigation bars.
Open to 10th, 11th, and 12th graders.

WORD PROCESSING 1 (1 term)
Students will be introduced to Word Processing using Microsoft Word on the Macintosh computers. The course is designed to teach the proper techniques and mastery of the computer keyboard. This course will help students gain keyboarding speed, knowledge of how to type correctly, and how to create documents that are formatted to professional standards. Students will be taught how to create a number of documents, which include: Memos, Letters, Reports, and Tables.
Recommended to students who have completed Computers 1

PERSONAL FINANCE 1 (1 term) **SME approved**
This course is designed to develop financial literacy for students in the areas of Saving, Investing, Wealth Building, College Planning, Budgeting, Cash Flow Planning, Debt, Relating with Money, Credit, Credit Reports, and Collection Practices. Our curriculum will utilize the nationally recognized "Foundations in Personal Finance" materials by Dave Ramsey. Students will learn how money and financing plays a critical role in life as an adult. Upon completion, students will have the skills and knowledge necessary to make sound financial decisions while understanding the significant role that money and finance plays in our global economy. Throughout the term, guest speakers from a variety of financial disciplines will visit the classroom to lend their expertise. The course culminates with the computer simulation called "On Your Own", using real world financial decisions students will need to make when living in the "real world". The goal of this course is to educate students so they take control of their financial future.
Open to 11th and 12th graders.

PERSONAL FINANCE 2 (1 term) **SME approved**
This course is designed to develop financial literacy for students in the areas of Bargain Shopping, Employment Taxes, Understanding Insurance, and Real Estate and Mortgages. Our curriculum will utilize the nationally recognized "Foundations in Personal Finance" materials by Dave Ramsey. Students will learn how money and financing plays a critical role in life as an adult. Upon completion, students will have the skills and knowledge necessary to make sound financial decisions while understanding the significant role that money and finance plays in our global economy. The goal of this course is to educate students so they take control of their financial future.
Prerequisite: Completion of Personal Finance 1 is required to sign up for this course.
Open to 11th and 12th graders.

ENGLISH DEPARTMENT

ENGLISH 9 (2 terms)
This course is designed to help students improve their reading and writing skills. Students will reflect on literature by connecting the world to their lives. In addition, self-reliance and inter-relationships will be key concepts addressed in English 9.

ENGLISH 10 (2 terms)
This course is designed to allow students greater appreciation for the American literary tradition. It is an extension of English 9 and is designed to help students continue to improve their reading and writing skills. Students will respond critically to and take a stance on the major themes of American literature such as integrity, the individual's role in relation to society, and equality.

ENGLISH 11 (2 terms)
This course is designed to allow students greater appreciation for the literature of the world with an emphasis on British literature. It is an extension of English 10 and is designed to help students continue to improve their reading and writing skills. Students will explore transformational thinking by exploring the major themes of world literature.

ENGLISH 12 (2 terms)
This course, as an extension of English 11, is designed to provide students with a strong background in both literary study and the writing process. Our readings, class discussions, and studies will maintain a focus on leadership as presented through a diverse literary selection. We will also do lots of writing which will be inspired by our study of literature. A major research project will be undertaken during the second of two terms.
AP English Literature and Composition may be taken in place of this course

AP ENGLISH LITERATURE AND COMPOSITION (Advanced Placement) (full year)
Do you want to take a sweet class with excellent company? AP English Literature and Composition is that class. Yes, we read *lots* of literature, and yes, we do *lots* of writing. We also prepare for the rigors of college and for successful completion of the AP English Lit and Comp exam in May. And when you apply for college acceptance during your senior year, this class helps to answer the question colleges ask as one of their main criterion: What demanding classes did a student take in high school? All AP classes meet that "strength of schedule" goal. Please consider joining us. You'll be glad you did.
Students who elect to enroll in AP courses are expected to pay for and take the AP Test at the conclusion of the course. During the second term the test fee will be collected from each student. This fee will be non-refundable.

FILM AND LITERATURE (1 term)
Students will gain an understanding of film terminology, film genres, film occupations, film history, real world application, and adaptation of literary texts to cinematic mediums. In addition, students will have the opportunity to read, interpret, and analyze at least two novels of their choice and critically observe their respective film adaptations. Writing will be a heavy component in this course as a supplement to the reading and film viewing load.

NOVELS 1 (1 term)
This course is designed for the student who loves to read. Students will vicariously travel to different times and destinations as they study longer pieces of literature. We will read four books during our time together. Your teacher will select most of the literature; however, you will have an opportunity to choose titles for independent reading projects. We will use class time to read, write about, and discuss the books selected. Open to 10th, 11th, and 12th graders.

NOVELS 2 (1 term) **(not offered in 2011-12)**
Novels 1 is NOT a prerequisite to Novels 2. This course is designed for the student who loves to read. Students will vicariously travel to different times and destinations as they study longer pieces of literature. We will read four books (different than the ones read in Novels 1) during our time together. Your teacher will select most of the literature; however, you will have an opportunity to choose titles for independent reading projects. We will use class time to read, write about, and discuss the books selected. Open to 10th, 11th, and 12th graders.

SHORT STORIES (1 term)
During the term, students will read a variety of short stories written by authors from various literary movements. This course will focus on comprehension of the story itself and on students learning to analyze the elements of a short story. Students will also explore the various methods of literary criticism. The stories we read will be written by both classic and contemporary authors.
Open to 10th, 11th, and 12th graders.

THEATRE (1 term)
Within the term, students will engage in three points of focus—an exposure to plays and playwrights, an opportunity to learn some basics of acting and directing, and time spent on production and stagecraft. Two or more plays will be read, several others will be viewed on video; there will be multiple acting experiences and a scene design project.

INTRODUCTION TO MEDIA COMMUNICATIONS (1 term)
This is the introductory course for students who want to take Script Writing or Writing for Publication (yearbook and newspaper). The basic knowledge and skills of writing for newspapers, magazines, radio, television, film, websites, and public relations projects will be the focus of this course.
This course is a prerequisite for Script Writing and Writing for Publication

SCRIPT WRITING (1 term)
Script Writing will focus on the application of the script and screenwriting skills learned in the Introduction to Media Communications course. Writing original scripts, filming original films, video podcasts and the production of the daily announcements will provide students opportunities to branch out into the different genres of script production. Hamilton Community Schools' student activities will provide opportunities for students to film and broadcast live events. This course may be repeated.
Prerequisite: Introduction to Media Communications OR approval of instructor

WRITING EXPLORATION (1 term)
This course is designed for students who have a desire to improve their writing skills through guided practice and exploration of a variety writing genres. The focus will be on the individual student's needs and goals for his or her writing. A wide variety of writing skills could be represented.

ENGLISH DEPARTMENT CONTINUED

WRITING FOR PUBLICATION (full year)
How often do you create "real world" productions in a class that can impact your entire community? Well, that will be happening regularly as a member of the Writing for Publications class. Students in this course will produce the high school yearbook (The Portrait) as well as print and online editions of the student newspaper (The ThunderHawk). Students will focus upon writing, photography, desktop publishing and business. From blank page to finished product, students write all the stories, captions, and headlines; they take, manage, and edit pictures; they brainstorm, create, and design the layouts; and they sell, manage, and organize the advertisements. This course requires some summer work as well as after school commitments during the school year.
Prerequisite: Introduction to Media Communications OR approval of instructor

SME approved courses:
(Senior Math Experience)

Algebra 2
Pre-Calculus
Calculus
AP Calculus
Trigonometry
Statistics
Math in Sports
Math in Games
Math in the FBI

Chemistry
AP Chemistry
Physics
AP Physics

Personal Finance 1
Personal Finance 2
Accounting 1

Careerline Tech courses
(as determined by OAISD)

Related Dual Enrollment and Online courses
with Administrator approval

MATHEMATICS DEPARTMENT

ALGEBRA 1 (2 terms)
This course includes basic mathematical concepts and skills that are needed in future mathematics courses. Topics covered include: sets and symbols, properties of real numbers, equations and inequalities, factoring, graphing, simultaneous equations, and quadratic equations.

GEOMETRY (2 terms)
This course will include the study of points, lines, angles, planes, polygons, and circles, as well as the reinforcement and extension of algebra. Other topics will include similarity, congruency, transformations, and area and volume formulas. Also developed will be the skills needed to write logical, deductive proofs of mathematical statements. Major emphasis will be on Coordinate and Plane Geometry, but instruction in Solid Geometry will also be included.
Prerequisite: Successful completion of Algebra 1

ALGEBRA 2 (2 terms) **SME approved**
This course will continue the development of math topics from Algebra 1 and Geometry. Other topics will include matricies, circles, ellipses, parabolas, hyperbolas, logarithms, trigonometry, probability, series, and statistics. **A graphing calculator is required (TI-83 + /TI-84 is recommended).**
Prerequisite: Successful completion of Geometry

PRE-CALCULUS (2 terms) **SME approved**
This course will include units on the number system to include complex numbers, set builder notation, solving various equations and inequalities, trigonometry, functions and their applications, vectors, matrices, sequences, series, and mathematical induction. A majority of the first trimester will involve trigonometry and much of the second trimester will cover functions. **A graphing calculator is required (TI-83 + /TI-84 is recommended).** *Prerequisite: Successful completion of Algebra 2*

CALCULUS (2 terms) **SME approved**
This course is intended for students who have a thorough knowledge of college preparatory mathematics. It will introduce Calculus with elementary functions. This class is designed to give students a broad view of Calculus with less intensity than AP Calculus. **A graphing calculator is required (TI-83 + /TI-84 is recommended).** Students who enroll in this class will not take the AP Calculus Test at the conclusion of this course.
Prerequisite: Recommended B- or better in Pre-Calculus

AP CALCULUS AB (Advanced Placement) (full year) **SME approved**
This course is intended for students who have a thorough knowledge of college preparatory mathematics. It will introduce Calculus with elementary functions. This class will go much more in-depth than general Calculus. Student planning to go into a mathematical field in college should take AP Calculus. **A graphing calculator is required (TI-83 + /TI-84 is recommended).** Students who elect to enroll in AP courses are expected to pay for and take the AP test at the conclusion of the course. During the second term the test fee will be collected from each student. This fee will be non-refundable.
Prerequisite: Recommended B+ or better in Pre-Calculus

TRIGONOMETRY (1 term) **SME approved**
This course will be a comprehensive review of trigonometry, including the six functions, triangle trigonometry, graphing, the six inverse functions, identities and formulas, and solving trigonometric equations.
Prerequisite: Successful completion of Geometry

STATISTICS (1 term) **SME approved**
Students will collect, explore, organize, and present data in a useful manner. Students will also examine data and describe characteristics of a distribution, relate data to the situation from which they arose, and use data to answer questions. **A graphing calculator is required (TI-83 + /TI-84 is recommended).**
Prerequisite: Recommended B- or better in Algebra 2

MATH IN SPORTS (1 term) **SME approved**
This class will explore the relationships between math and sports. It will incorporate various concepts learned in Algebra 1, Algebra 2, and Geometry. We will explore basic number sense within many traditional sports. Analyze linear motion and represent it graphically. We will apply the concepts of area, volume, perimeter, and circumference to various playing surfaces and equipment. Learn how angles directly impact sports such as billiards and miniature golf. Study statistics and probability and how they apply to individual as well as team sports.
Prerequisite: Must be taking or have taken Algebra 2

MATH IN GAMES (1 term) **SME approved**
This class will examine the relationship between math and games like dice games, card games, Battleship, etc. Students will utilize skills and concepts mastered in Algebra and Geometry to investigate games and game theory. Students will engage in classroom investigations, hands-on activities, and written responses to the mathematics behind games. Students will also complete a project-based component in which students will research, modify, and design games.
Prerequisite: Must be taking or have taken Algebra 2

MATH IN THE FBI (1 term) **SME approved**
Math and the FBI deals with the mathematics from the television show NUMB3RS. Each week students do activities covering a variety of mathematical topics, followed by the viewing of an episode from which the topics came. The students will be able to see the mathematics they just learned being put to use by the FBI in catching criminals. After viewing the episodes, there will be classroom discussion about the math and social issues that come up.
Prerequisite: Must be taking or have taken Algebra 2

MUSIC DEPARTMENT

BAND (full year) **VPAA approved**
This course is open to all students in grades 9-12 with instrumental music experience. A variety of musical styles will be studied within the presented literature. Activities include concert performance, festival participation, marching band, and pep band. Attendance at all performances is mandatory.

HONORS CHOIR (full year) **VPAA approved**
This is an auditioned performance ensemble designed for the more experienced singers. More difficult literature and fast paced rehearsals reflect the more advanced abilities of the ensemble. Many styles and periods of music are studied in order to allow the singer new musical experiences. All members of Honors Choir must be able to read music, have good singing technique, self-discipline, and teamwork skills. Performance is an integral component of this ensemble. In addition to the concert schedule, they attend choral festival and perform at community and/or school functions outside of the school day. Attendance at all performances is mandatory. An audition with the director is required before registering for this class.

JAZZ BAND (winter term) **VPAA approved**
This course is open to all students 9-12 who are concurrently enrolled in band. This ensemble will focus on playing within numerous jazz styles and utilizing numerous jazz techniques, including improvisation. Activities include performances at jazz festival, and at the band spring concert. Additional performances may occur throughout both winter and spring terms. Attendance at all performances is mandatory. Additional students who are not enrolled in band may be accepted by audition only.

MUSICAL ROOTS (fall term)
Musical Roots at its simplest form is a music history class. We start with the music of today and let the students explore music that they are currently listening to and the reasons why it is popular. We also talk about why music is important to us as individuals and to us as a society. From here, we go back to the 1500's and talk about how music was first written down in the middle ages as well as ways that music was passed down orally from generation to generation. We then discuss the Renaissance and how the explosion of ideas and literacy also relates to an explosion of music! From here we work our way through the Baroque, Classical and Romantic periods, when some of the big names in music came on the scene, including Bach, Beethoven and Mozart. Next is the 20th century- during this time period music expanded in a lot of different directions, including Nationalism, Impressionism, Jazz, and Rock 'n Roll!! Throughout the class we do a lot of listening and discussions of what we hear. Each student gets 3 CDs for the course that they can take home and listen to, as well.

MUSICAL THEATRE CHORUS (full year) **VPAA approved**
This course is open to any student grades 9-12 who is interested in singing, regardless of previous experience. No audition is necessary. This group will work on basic music fundamentals and reading skills, singing technique, and performance skills. On top of studying vocal music, this class will help develop acting skills, as we study musical theatre in addition to the traditional choral curriculum. This group will perform as least once each term. Attendance at all performances is mandatory.

WOMEN'S CHORALE (full year) **VPAA approved**
Women's Chorale is an all-women choir, open to students in grades 9-12 who want to study traditional choral literature from various times and places. These singers must have basic music reading skills, and prior choral experience is preferred. Inclusion in this musical ensemble demands teamwork, as well as self-discipline and control. There are five main concerts in the school year. In addition to the concert schedule, they attend choral festival and perform at community and/or school functions outside of the school day. Attendance at all performances is mandatory. An audition with the director is required before registering for this class.

MUSIC COMPOSITION (spring term) **VPAA approved**
Available to students grades 9-12. Students will learn the fundamentals of music writing and by the end of the course will create several of their own musical compositions. No musical experience is required and students will be given assignments that are appropriate for their level of experience.

PHYSICAL EDUCATION DEPARTMENT

FIT AND SAFE (Girls) (1 term)
A combination course of step-aerobics, kick boxing, power walking, jogging, yoga, pilates, and self-defense. A willingness to try anything is helpful.

HEALTH 1 (1 term)
Topics of wellness, nutrition, exercise, social and general health will be explored. Students will apply concepts and formulate a plan for lifelong health practices. This course will not include any reproductive health information or topics - those topics are included in Health 2.

HEALTH 2 (1 term)
This course will focus on growth and development, reproductive health, and mental and physical health. We will cover body systems, including reproduction. There will be an opportunity to experience parenthood with the computerized babies.
Open to 10th, 11th, and 12th graders.
Prerequisite: Successful completion of Health 1

LIFEGUARDING (1 term)
This course is designed to prepare students for a job that requires a lifeguarding or water safety background. It will require both in-class and in-water instruction. You will be responsible for ensuring the safety of the facility patrons, by preventing and responding to emergencies and by enforcing all facility policies and rules. At the end of this course you will be certified in lifeguarding, basic first aid, CPR, AED, oxygen administration, and preventing disease transmission. You must be 15 years old, be able to swim all three strokes, retrieve a 10lb. block, and tread water for 2 minutes.
Open to 10th, 11th, and 12th graders.

PE FITNESS (1 term)
Goals include improving cardiovascular fitness, strength, flexibility, and motor skill development. Students will participate in a variety of activities that are conducive to life-long physical fitness. The pace and intensity of the program will be determined by the individual's baseline fitness and needs.

PE PERFORMANCE (1 term)
This course is designed for students who participate in athletics. Baseline testing is used to determine goals, and a rigorous strength and conditioning program will be created to meet the individual's needs. A variety of activities will be used to help improve speed, agility, and quickness.

* Only one (1) PE course is allowed per term.

SCIENCE DEPARTMENT

PHYSICAL SCIENCE (1 term)
This course introduces basic physics concepts. Types of Energy and Energy Conversions, Motion, Forces, Electricity, and Waves will be discussed. The course will consist of both textbook and laboratory work. A significant amount of work will be done both in the science lab and in the computer lab.

INTRODUCTION TO CHEMISTRY (1 term)
This course introduces basic chemistry concepts. Ideas such as atoms, molecules, elements, periodic table, chemical equations, and changes in matter, including nuclear changes, will be discussed. The course will consist of both textbook and laboratory work. A significant amount of work will be done both in the science lab and in the computer lab.

BIOLOGY (2 terms)
Biology is the study of living things. The first term explores basic biological concepts and principles that are common to all living things. This includes the study of the structure and physiology of cells, ecology, DNA, protein synthesis, photosynthesis, and respiration. The second term explores the variety of life through the study of genetics and scientific evolutionary principles. Classification, microbiology, immunity, and HIV will finish the second term.

CHEMISTRY (2 terms) **SME approved**
This course will give the student an understanding of the elements and chemical compounds in our universe. Emphasis is on the use of the metric system, laboratory equipment, chemical analysis, and problem solving. Chemistry includes the study of the nature of matter and energy, elements and compounds, the structure of matter, the periodic arrangement of elements, chemical reactions, gas laws, chemical calculations, acids, bases, salts, and the development and use of balanced chemical equations.
Prerequisite: Must be taking or have taken Algebra 2

AP CHEMISTRY (Advanced Placement) (full year) **SME approved**
This course is designed to give students a solid first-year college chemistry experience, both conceptually and in the laboratory. Students must have successfully completed Chemistry to enroll in this class. Students will be prepared to take the AP Chemistry exam in the spring. Students who elect to enroll in AP courses are expected to pay for and take the AP Test at the conclusion of the course. During the second term the test fee will be collected from each student. This fee will be non-refundable.
Recommended to students who have a B- or better in Chemistry

PHYSICS (2 terms) **SME approved**
This course is designed to give the student a basic knowledge of the physical laws which govern the interaction between matter and energy. Classroom lectures, demonstrations, and laboratory sessions are used to develop basic understanding of measurement, motion, energy, mechanics, electricity, and magnetism.
Prerequisite: Must be taking or have taken Algebra 2

AP PHYSICS C: MECHANICS (Advanced Placement) (full year) **SME approved**
AP Physics is a calculus-based course principally taught to students who plan to major in physics, computer science, mathematics, or any type of engineering, but it also applies to anyone needing to fulfill a physics requirement in college. It is taught as a second-year course covering mechanics. Students who elect to enroll in AP courses are expected to pay for and take the AP Test at the conclusion of the course. During the second term the test fee will be collected from each student. This fee will be non-refundable.
Recommended to students who have completed Physics and Pre-Calculus with a B- or better, and have completed or are enrolled in Calculus

HUMAN ANATOMY (2 terms)
An advanced course in human biology. The first term covers the organization of the body, cell and tissue structure, and the integument, skeletal, and muscular systems. The second term covers the digestive system, cardiovascular system, respiratory system, urinary system, nervous system, endocrine system, and reproductive systems. Lectures are supplemented with appropriate laboratory work and computer work, including dissection of mammalian specimens during the second term.
Recommended to students who have a B- or better in Biology

ECOLOGY (1 term)
This course will explore advanced concepts in ecology. Building off the introduction given in Biology, Ecology will explore such modern issues as global warming, air quality, wetland destruction, clean energy, urban sprawl, and the "Green" movement. This class will also have a large "field research" component where students will venture outdoors to collect data, observe ecology in action, and work on community-based habitat projects in the Hamilton area. Students will also partner with such organizations as Ducks Unlimited and Pheasants Forever in working on these habitat projects.
Open to 10th, 11th, and 12th graders.

SCIENCE OLYMPIAD (winter term)
This second term course is based on the national Science Olympiad competition. The purpose of the competition is to improve the quality of science education, increase student interest in science, and provide recognition for students and teachers. Events in Science Olympiad have been designed to recognize the wide variety of skills that students possess. While some events require knowledge of scientific facts and concepts, others rely on science processes, skills, or applications. Participation in the Science Olympiad competition is mandatory. The regional competition is held in the mid to late winter. This course will be a hands-on, self-directed, project-oriented class. Students will work in class but sometimes additional work at home will be necessary to meet deadlines or to make adjustments.
Prerequisite: Approval of the instructor.

SOCIAL STUDIES DEPARTMENT

CURRENT EVENTS (1 term)
This course will explore and discuss major events and movements in the news today that are shaping our social, political, and economic lives. In addition, students will closely examine how these events are covered and interpreted by the media, looking for any biases that may be evident.

ECONOMICS (1 term)
A course which will study such pure economic topics as inflation, recession, depression, the law of supply and demand, and monetary policy. It will provide an understanding of capitalism and America's system of free enterprise. This will include the present role of corporations and unions in our economy. In addition, the current state of the United States' economy will be studied. How do tax policy, the stock market, and interest rates affect our lives?

U.S. HISTORY AND GEOGRAPHY (2 terms)
A post-Civil War survey course of American history. Subject areas may include the Progressive Era, World War I, the Great Depression, World War II, the Cold War, the Fifties, and Vietnam. In addition, thematic discussion of geography will be incorporated into the course content.

WORLD HISTORY AND GEOGRAPHY (2 terms)
World History and Geography is a survey course that covers the fall of classical empires (Rome and China) through the conflicts of the late 20th Century. Topics of special interest include, but are not limited to, the study of world religions, an emerging global system as shown through the development of trade, the creation of distinct political systems, European revolutions, WWI, WWII, and the Cold War from a non-American perspective.

U.S. GOVERNMENT (1 term)
This course prepares students for informed and responsible participation as citizens of our constitutional democracy. Students deepen their understanding of the democratic values expressed in the Declaration of Independence and the Constitution. They learn the purpose and structures of government within the federal system. They also learn how citizens exert influence on public affairs and decisions. As a result of this course, students are prepared to exercise the rights and responsibilities of American citizenship.

CLOSE-UP (fall or winter term)
This course is designed to meet the needs and interests of students who are concerned about issues and problems that face our nation. These issues or problems may be of a social, economic, or political nature. Students will explore our nation's capital and the inner workings of the government. This course involves research, discussion, and the composition of PowerPoint presentations, both individually and collaboratively. The course is also designed to stimulate student interest in attending the local and national Close-Up programs offered by the school district. Students are expected to participate in the activities outside the classroom and within the school day. **If the reason for not taking this class is due to a concern with the cost of the trip, please see the instructor for information regarding the availability of business and governmental tuition grants.** Open to 10th, 11th, and 12th graders who are interested in attending the Washington, D.C. program in the spring.
Prerequisite: Completion of Current Events and Economics, and written approval of the instructor

PSYCHOLOGY (1 term) **(not offered in 2011-12)**
The course covers methods of studying behavior, the process of human development, the effects of biology and heredity on our behavior, personality theories, learning, and intelligence and IQ testing. Students will also do research on psychological disorders, including causes, symptoms, and treatments. Open to 11th and 12th graders.

SOCIAL STUDIES (1 term)
This course covers methods of studying behavior, culture and its effects on our behavior, social groups, social class, minorities, and race relations. It will also address some social problems, specifically crime, poverty, and civil rights. Open to 11th and 12th graders.

AP U.S. GOVERNMENT AND POLITICS (Advanced Placement) (fall and winter terms)
This is a college level course that will give the student an analytical perspective on government and politics in the United States. The course will examine the constitutional underpinnings of our government, political beliefs and behaviors, political parties and interest groups, institutions and policy processes of the national government, civil rights, and civil liberties. The course requires extensive readings in college level texts and interpretative materials. Papers, tests, and simulations stress techniques of analysis and synthesis. In addition, the class will have the opportunity to examine public policy issues. Students who elect to enroll in AP courses are expected to pay for and take the AP Test at the conclusion of the course. During the second term the test fee will be collected from each student. This fee will be non-refundable.
Recommended to students who have a B or better in U.S. History and U.S. Government

AP U.S. HISTORY (Advanced Placement) (full year)
AP U.S. History is a challenging course that is meant to be the equivalent of a freshman college course and can earn students college credit. It is a year-long survey of American history from the Age of Exploration and Discovery to the Present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of original documents, and historiography. A short research paper may be required. Students who elect to enroll in AP courses are expected to pay for and take the AP Test at the conclusion of the course. During the second term the test fee will be collected from each student. This fee will be non-refundable.
Recommended to students who have a B or better in U.S. History

WORLD LANGUAGE DEPARTMENT

GERMAN 1 (2 terms)
This course presents a basic vocabulary with emphasis on listening comprehension so that students will be able to communicate in real-life situations. Students will be introduced to cultural aspects of German-speaking people.

GERMAN 2 (2 terms)
This course builds on the vocabulary of German 1 with continued emphasis on listening comprehension and increased emphasis on speaking, reading, and writing. Practice of grammatical concepts using real-life situations allows students to demonstrate their aural/oral proficiency.
Prerequisite: German 1 or permission of the instructor

GERMAN 3 (2 terms)
This course is an intense, expanded study of grammatical structures and their use in everyday communication. All four skills (speaking, listening, reading, and writing) will be emphasized through increased vocabulary and study of German culture and literature. The class will be taught in the target language.
Prerequisite: German 1 and 2 or permission of the instructor

GERMAN 4 (2 terms)
The goal of this course is to improve students' abilities to communicate in German. Authentic materials from German-speaking countries are used as much as possible, and the class is conducted almost entirely in German. Speaking, listening, reading, and writing skills are a focus of this class. Previously learned grammar topics will be revisited, and more advanced grammar topics will be introduced.
Prerequisite: German 1, 2, and 3 or permission of the instructor

SPANISH 1 (2 terms)
This course presents a basic vocabulary with emphasis on listening comprehension so that students will be able to communicate in real-life situations. Students will be introduced to cultural aspects of Spanish-speaking people.

SPANISH 2 (2 terms)
This course builds on the vocabulary of Spanish 1 with continued emphasis on listening comprehension and increased emphasis on speaking, reading, and writing. Practice of grammatical concepts using real-life situations allows students to demonstrate their aural/oral proficiency.
Prerequisite: Spanish 1 or permission of the instructor

SPANISH 3 (2 terms)
This course is an intense, expanded study of grammatical structures and their use in everyday communication. All four skills (speaking, listening, reading, and writing) will be emphasized through increased vocabulary and study of Spanish culture and literature. The class will be taught in the target language.
Prerequisite: Spanish 1 and 2 or permission of the instructor

SPANISH 4 (2 terms)
The goal of this course is to improve students' abilities to communicate in Spanish. Authentic materials from Spanish-speaking countries are used as much as possible, and the class is conducted almost entirely in Spanish. Speaking, listening, reading, and writing skills are a focus of this class. Previously learned grammar topics will be revisited, and more advanced grammar topics will be introduced.
Prerequisite: Spanish 1, 2, and 3 or permission of the instructor

AP SPANISH LANGUAGE (full year)
This course will focus on the acquisition of vocabulary on a variety of topics and the application of all vocabulary and grammatical structures learned in the previous four years of study. Students will write, speak, and understand Spanish on a variety of topics and from a variety of sources. Students will practice test-taking techniques for the AP Spanish Language Exam. Spanish will be the only language spoken in class. Students who elect to enroll in AP courses are expected to pay for and take the AP Test at the conclusion of the course. During the second term the test fee will be collected from each student. This fee will be non-refundable.
Prerequisite: Spanish 1, 2, 3, and 4 or permission of the instructor

MISCELLANEOUS

ACT PREP (winter term)
This course is designed to prepare students for the MME testing that all 11th graders will take in March. Students will rotate between English, Math, and Science teachers over the 12 week period of the term. Students will be exposed to the characteristics of ACT, MME, and WorkKeys tests, as well as strategies for success on these tests. Test-taking strategies, review modules, and practice tests will be conducted by each teacher in the subjects of English, Math, Reading, Science, and Writing. This class is required for all 11th graders.

CAREERLINE TECH CENTER (full year)
Open to 11th and 12th graders, CLTC is a vocational school open to students in the schools in the Ottawa Area Intermediate School District. Instruction and hands-on experience are offered in 23 career options. Careerline Tech Center courses are open to all 11th and 12th graders regardless of race, color, national origin, sex, or disability.

COOPERATIVE EDUCATION (full year)
Cooperative training is a unique program offered to 12th graders. It is designed to develop skills needed for employment and to gain exposure to career areas before seeking further education. Co-op combines related classroom instruction with supervised part-time, paid employment. Co-op usually begins in the fall term and continues through the school year. Students are required to provide their own transportation. Participation in the co-op program starts with an application completed by the student and signed by their parents. Applications may be obtained from Mrs. Harbottle in the spring. A copy of the student's EDP must be submitted with the application. Watch the announcements for meeting dates.

DUAL ENROLLMENT
Provides serious college-bound high school students with the opportunity to enroll part-time at a degree-granting accredited college or university. 11th and 12th graders who have exhausted Hamilton High School's curricular offerings in a particular field of study, and who have taken the PSAT or PLAN and have achieved the qualifying score, are eligible to apply. **There may be additional costs for the family, depending upon the institution offering the class**. Contact the Counseling Office for more information.
You may not drop out of a Dual Enrollment class without Administrative approval.

ON-LINE COURSES
Courses are available in many subject areas from Michigan Virtual High School and GenNET for students who would like to take a class not offered in our curriculum, including World Languages, such as Mandarin Chinese and Arabic. Only 12th graders and 3rd term 11th graders are eligible to take Michigan Virtual High School and GenNET on-line courses, unless approved by Administration). See your counselor for more information and a listing of available courses.
You may not drop out of an online class without Administrative approval, and additional restrictions may apply.

ON-LINE ADVANCED PLACEMENT COURSES
AP on-line courses are web-based complete curriculum courses that include interactive tutorials, assignments, activities, exams, quizzes, and grading, with an experienced AP distance teacher. Through these on-line courses, students can work at school and at home with unlimited flexibility. Each course provides a wealth of on-line resources and more than 150 hours of challenging coursework per semester that is designed to meet the College Board course requirements and prepare students for the AP exam. These courses do not replace AP courses we currently offer at the high school. See your counselor for more information and a listing of available courses.
You may not drop out of an On-Line AP class without Administrative approval.

TEACHER ASSISTANT (full year)
The primary goal of the Teacher Assistant program is to help 12th graders make a wise vocational choice in the field of education and only secondarily to provide some classroom assistance to teachers of our district. Students will be enrolled in a class called "Introduction to Teaching", as well as an afternoon field placement. All applicants need to have an interest in some field of education. Students will be required to provide their own transportation.
Applications may be obtained from Mrs. Kapenga in the Winter term. A copy of the student's EDP must be submitted with the application.

Special Education Courses

Guided Studies	Teacher Consultant
Life Skills	Resource Room
English	English
Life Skills	Math
Math	Science
Science	Social Studies
Social Studies	U.S. Literature

CAREERLINE TECH CENTER

Careerline Tech Center provides career education to juniors and seniors in high school and offers the opportunity for students to gain skills and/or prepare for post-secondary education in one of 23 programs. Tech Center classes are free. Programs are offered Monday through Friday and students attend for a half day either in the morning or the afternoon. Interested students and parents can get more information on Careerline Tech Center by visiting the website at www.oaisd.org/ctc

Each year, Careerline Tech Center has an open house in the fall for parents and potential students to visit the programs and talk with instructors. In January and February, 10th and 11th grade students have the opportunity to visit programs at the Tech Center before selecting a program for the following year. Careerline Tech Center has articulation agreements with 11 area colleges and universities. Those agreements give students the chance to earn college credit while still in high school. Early college credit may be an option for some students. Early college options allow students to enroll, while at the Tech Center, as a college student. College credit is earned and placed on a transcript to follow students to the college of their choice upon high school graduation.

While Tech Center credit is earned as electives, most Tech Center programs offer students the opportunity to receive academic credit (4th Year Math, 3rd Year Science, Visual/Performing Arts and On-Line Learning).

Careerline Tech Center's 23 programs are organized by pathways, broad groupings of careers that share similar characteristics and whose employment/education requirements call for many common interests, strengths, and competencies.

Natural Resources and Agriscience Pathway

Environmental & Agricultural Sciences – This program is designed for students to develop fundamental knowledge and explore opportunities within the environmental and agricultural fields. Second year students will work independently within specific areas of interest including Environmental Sciences, Animal Sciences, Horticultural Sciences, and Sustainable Energy.
(Open to juniors and seniors, this is a two year program. 4th year math-related credit, 3rd year science credit, visual/performing arts credit, and an on-line learning experience is available.)

Arts and Communications Pathway

Media Production – The focus of this program is production as students learn video production, editing, and broadcasting. Students learn to operate video cameras, sound and mixing boards, and lighting in a production studio and in remote locations.
(Open to juniors and seniors, this is a one year program. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Printing/Graphic Arts – Students learn the three major printing processes from graphic design to digital imaging to final printed product. Operating a print shop, students produce t-shirts, brochures, newsletters, business cards, etc.
(Open to juniors and seniors, this is a one year program with a second year of extended curriculum. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Visual Communications – The fundamentals of drawing and design are combined with computer software skills to produce original graphic design work and illustrations. Computers are used to produce high quality projects that are assembled into a portfolio.
(Open to juniors and seniors, this is a one year program with a second year of extended curriculum. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Business, Management, Marketing & Technology Pathway

Culinary & Pastry Arts – Students learn about the hospitality field focusing on culinary and pastry arts. They learn food and beverage production, nutritional values, proper cooking methods, sanitation, and various types of desserts and baked goods. Students run the school restaurant where they practice menu planning, food preparation, and management skills.
(Open to juniors and seniors, this is a one year program. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Finance & Business Technology – Finance, technology/office skills, and accounting basics are obtained as students gain experience learning Microsoft Office, basic accounting functions, and the administrative activities of an office.
(Open to juniors and seniors, this is a one year program with a second year of extended curriculum. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

IT-PC & Network Technologies/IT-Web Technologies – Students learn fundamental skills in web infrastructure, web design and administration, management, troubleshooting, and networking components with hands-on experience directed towards the installation, configuration, and troubleshooting of basic networking hardware, protocols, and services.
(Open to juniors and seniors, this is a one year program with a second year of extended curriculum. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Marketing & Entrepreneurship – Students learn the functions of marketing, economics, promotion, distribution, finances, and hospitality and work on many projects throughout the year. Students can choose a couple areas of focus including: travel & tourism, entrepreneurship, event planning, DECA, and sports & entertainment.
(Open to juniors and seniors, this is a one year program with a second year of extended curriculum. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Engineering/Manufacturing and Industrial Pathway

Construction Technology – Students study all aspects of the construction industry including blueprint reading, framing, roofing, siding, masonry, and basic carpentry skills. Students gain experience by building the Tech Center project house. "Green" technology in building/construction is taught.
(Open to juniors and seniors, this is a two year program. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Electrical/Alternative Energy – Students learn residential, commercial, and industrial electricity. Electrical theory, blueprint reading, conduit bending, wiring, and lighting are included. Students also learn about renewable/sustainable energy sources.
(Open to juniors and seniors, this is a two year program. 4th year math-related credit, visual/performing arts credit and an on-line learning experience is available.)

Engineering Design & Machine Technologies – Students obtain technology skills in engineering and machining. They build and test prototype parts and assemblies of products, tools, and machines used in the automotive, manufacturing, and construction industries. In addition to using the latest engineering and design software, students gain practical experience working with lathes, mills, and surface grinders.
(Open to juniors and seniors, this is a one year program with a second year of extended curriculum. 4th year math-related credit, visual/performing arts credit, and on on-line learning experience is available.)

Plumbing, Heating, and Cooling – Residential and basic commercial plumbing, layout, and the design of plumbing systems are covered in this program. Students learn soldering and brazing of copper tubing and cutting, threading and grooving of steel pipe for gas and fire protection. Students also learn the installation, maintenance, and repair of heating and air-conditioning systems.
(Open to juniors and seniors, this is a two year program. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Welding – Students learn the basics of welding including the design, layout and fabrication of metals, the identification of metal and alloy properties, and fluxcore and plasma arc cutting.
(Open to juniors and seniors, this is a two year program. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Auto Body Repair – Students gain skills needed to repair damaged vehicles by learning dent removal, welding techniques, body and frame alignment, panel replacement, surface preparation, estimating skills, and painting.
(Open to juniors and seniors, this is a one year program with a second year of extended curriculum. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Auto Mechanics – First year auto mechanics students learn the basics of automobiles. Second year students get hands-on experience working on vehicles in the lab. Among the services learned are tire service, exhausts, tune-ups, engines, electrical circuits, suspensions, brakes, and electronics.
(Open to juniors and seniors, this is a two year program. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Diesel/Heavy Equipment Mechanics – The operation, maintenance, and overhaul of diesel-powered equipment is learned, specializing in heavy equipment, trucking, and automotive applications. Second year students expand their knowledge of diesel-powered engines by working on actual customer equipment.
(Open to juniors and seniors, this is a two year program. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Health Sciences Pathway

Advanced Healthcare – In the Advanced Healthcare program, students build on health foundations learned in the first year. Advanced skills include: EKG (pulse points, EKG rhythms), dressing changes (sterile dressing changes, irrigating a wound), catheters, colostomy, pre/post operative care (pulse oximeter, breathing treatments), injection techniques (types of injections, injection sites), intravenous fluids (IV pump), tracheotomy care, and phlebotomy (blood testing, drawing blood).
(Open to juniors and seniors, this is a one year program. 4th year math-related credit, 3rd year science credit, visual/performing arts credit and an on-line learning experience is available.)

Dental Careers – This class will prepare students to become a chairside dental assistant. Students also have the opportunity to explore other careers in the dental field including dental hygienists, dental laboratory technicians, registered dental assistants, and dentists.
(Open to juniors and seniors, this is a one year program. 4th year math-related credit, 3rd year science credit, visual/performing arts credit, and an on-line learning experience is available.)

Emergency Medical Services – Students are trained to become emergency medical technicians. Students assess patients involved in different types of medical emergencies and trauma, and study treatment procedures.
(Open to seniors only, this is a one year program. 4th year math-related credit, 3rd year science credit, visual/performing arts credit, and an on-line learning experience is available.)

Healthcare Foundations – Students learn basic patient care such as temperature, blood pressure, pulse and breathing rates, glove use, hand washing, serving meals and food to patients who are unable to feed themselves, walking patients, and the use of computers in healthcare.
(Open to juniors and seniors, this is a one year program. 4th year math-related credit, 3rd year science credit, visual/performing arts credit and an on-line learning experience is available.)

Human Services Pathway

Cosmetology – In this program, students learn services offered in a salon including hair shaping and styling, manicures, facials, and waxing. There is a fee for first year students which covers a mannequin, textbook, hair sheers, razor, and uniform. ($260.00)
(Open to seniors only, this is a two year program. Students complete training for their cosmetology licenses as an adult student ($6,000). 4th year math-related credit, 3rd year science credit, visual/performing arts credit, and an on-line learning experience is available.)

Early Childhood Education – Students in this program gain skills in four major areas of child development: physical, intellectual, emotional, and social. Other areas studied include observation, lesson planning, guidance techniques, and learning environments. Students gain experience by working with children in the Tech Center preschool.
(Open to juniors and seniors, this is a one year program with a second year of extended curriculum. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

Public Safety & Security Services – This class trains students in the protection of people. Students are introduced to the role of law enforcement, public safety, and security services in our community. Areas of study include Michigan law, the court system, corrections, emergency procedures (including CPR and first aid), and investigative procedures.
(Open to juniors and seniors, this is a one year program. 4th year math-related credit, visual/performing arts credit, and an on-line learning experience is available.)

The following guidelines will be used to help determine placement for Tech Center classes in the 11th and 12th grade:

- 8.5 credits by the end of the 1st term of 10th grade or 15.5 credits by the end of the 1st term of 11th grade (credit requirements may differ for transfer students)
- Attendance
- Grades in classes relating to the student's Tech Center program

In cases where there are more students who meet the guidelines than openings, a random drawing of those students will occur to fill those available spots. (When signing up, 10th graders may be given preference over 11th graders for a 2 year course.)

In cases where spots available exceed requests, all students will be placed.

All students attending the Tech Center are required to ride the Hamilton High School bus to and from the Tech Center every day.

2011 - 2012

HAMILTON HIGH SCHOOL FOUR-YEAR PLAN OF STUDY

Things to consider:

27.5 credits total

English	4.0 credits	Social Studies	3.5 credits
Math	4.0 credits	Computers	.5 credits
Science	3.0 credits	ACT Prep	.5 credits

PE	.5 credits
Health	.5 credits
Vis/Perf/App. Art	1.0 credits

9th Grade	10th Grade	11th Grade	12th Grade
1. English 9	1. English 10	1. English 11	1. English 12
2. English 9	2. English 10	2. English 11	2. English 12
3. Algebra 1 or Geometry	3. Geometry or Algebra 2	3. Algebra 2 or Pre Calculus	3. Senior Math
4. Algebra 1 or Geometry	4. Geometry or Algebra 2	4. Algebra 2 or Pre Calculus	4. Senior Math
5. Intro. to Chemistry	5. Biology	5. Chemistry or Physics	5.
6. Physical Science	6. Biology	6. Chemistry or Physics	6.
7. Economics	7. U.S. History & Geography	7. World History & Geography	7.
8. Current Events	8. U.S. History & Geography	8. World History & Geography	8.
9. Computers 1	9.	9. US Government	9.
10.	10.	10. ACT Prep	10.
11.	11.	11.	11.
12.	12.	12.	12.
13.	13.	13.	13.
14.	14.	14.	14.
15.	15.	15.	15.

Name _____

HAMILTON HIGH SCHOOL

GRADUATION REQUIREMENT CHECKLIST

27.5 credits total

ENGLISH (8 terms/4.0 credits)

_____ English 9
_____ English 9
_____ English 10
_____ English 10
_____ English 11
_____ English 11
_____ English 12
_____ English 12

MATH (8 terms/4.0 credits)

_____ Algebra 1
_____ Algebra 1
_____ Geometry
_____ Geometry
_____ Algebra 2
_____ Algebra 2
_____ 4th Math/SME Credit _____
_____ 4th Math/SME Credit _____

SCIENCE (6 terms/3.0 credits)

_____ Physical Science
_____ Introduction to Chemistry
_____ Biology
_____ Biology
_____ Chemistry or Physics
_____ Chemistry or Physics

SOCIAL STUDIES (7 terms/3.5 credits)

_____ Economics
_____ Current Events
_____ U.S. History and Geography
_____ U.S. History and Geography
_____ World History and Geography
_____ World History and Geography
_____ U.S. Government

ACT PREPARATION (1 term/.5 credits)

_____ACT Preparation

COMPUTERS (1 term/.5 credits)

_____Computers 1

PHYSICAL EDUCATION (1 term/.5 credits)

_____Physical Education _____

HEALTH (1 term/.5 credits)

_____Health 1

VISUAL/PERFORM/APPLIED ARTS (2 terms/1.0 credits)

_____ _____
_____ _____

ELECTIVES

_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

WORLD LANGUAGE

_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

12th grade

COURSE REQUEST SHEET

Student Name _____

1. English 12_____
2. English 12_____
3. Senior Math_____
4. Senior Math_____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

Teacher Approval Classes:

1. _____
2. _____
3. _____

11th grade

COURSE REQUEST SHEET

Student Name _____

1. English 11_____
2. English 11_____
3. Algebra 2 or Pre Calculus (circle one)_____
4. Algebra 2 or Pre Calculus (circle one)_____
5. Chemistry or Physics (circle one)_____
6. Chemistry or Physics (circle one)_____
7. World History and Geography_____
8. World History and Geography_____
9. US Government_____
10. ACT Prep_____
11. _____
12. _____
13. _____
14. _____
15. _____

Teacher Approval Classes:

1. _____
2. _____
3. _____

10th grade

COURSE REQUEST SHEET

Student Name _____

1. English 10_____
2. English 10_____
3. Geometry or Algebra 2 (circle one)_____
4. Geometry or Algebra 2 (circle one)_____
5. Biology_____
6. Biology_____
7. US History and Geography_____
8. US History and Geography_____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

Teacher Approval Classes:

1. _____
2. _____
3. _____

9th grade

COURSE REQUEST SHEET

Student Name _____

1. English 9 _____
2. English 9 _____
3. Algebra 1 or Geometry (circle one) _____
4. Algebra 1 or Geometry (circle one) _____
5. Physical Science _____
6. Intro. to Chemistry _____
7. Economics _____
8. Current Events _____
9. Computers 1 _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

Teacher Approval Classes:

1. _____
2. _____
3. _____

*Teacher Approval Classes:

Honors Choir (3)
Women's Chorale (3)
Science Olympiad (1)

Additional Required Courses for Graduation:
# of terms in ( )

Health 1 (1)

PE - one term required
Fit and Safe (girls) (1)
PE Fitness 1, 2, 3 (1) →
PE Performance 1, 2, 3 (1) →

1 – Fall
2 – Winter
3 – Spring

VPAA - two terms required
Introduction to Art (1)
Drawing 1 (1)
Painting 1 (1)
Art in 3-D (1)
Clay 1 (1)
Robotics 1 (1)
Technical Drafting (1)
Band (3)
Honors Choir * (3)
Jazz Band (1)
Music Composition (1)
Musical Theatre Chorus (3)
Women's Chorale * (3)

* Requires Teacher approval

9th grade Elective Choices
# of terms in ( )

Computers 2 (1)
Word Processing 1 (1)

Intro. to Media Communications (1)
Film and Literature (1)
Theatre (1)
Writing Exploration (1)

German 1 (2)
German 2 (2)
Spanish 1 (2)
Spanish 2 (2)

Technical Drafting (1)

Musical Roots (1)

Science Olympiad * (Winter)

* Requires Teacher approval

Name _____

HAMILTON HIGH SCHOOL

GRADUATION REQUIREMENT

TRANSFER CHECKLIST

ENGLISH (8 terms/4.0 credits)

_____ English 9
_____ English 9
_____ English 10
_____ English 10
_____ English 11
_____ English 11
_____ English 12
_____ English 12

MATH (8 terms/4.0 credits)

_____ Algebra 1
_____ Algebra 1
_____ Geometry
_____ Geometry
_____ Algebra 2
_____ Algebra 2
_____ 4th Math/SME Credit _____
_____ 4th Math/SME Credit _____

SCIENCE (6 terms/3.0 credits)

_____ Physical Science
_____ Introduction to Chemistry
_____ Biology
_____ Biology
_____ Chemistry or Physics
_____ Chemistry or Physics

SOCIAL STUDIES (7 terms/3.5 credits)

_____ Economics
_____ Current Events
_____ U.S. History and Geography
_____ U.S. History and Geography
_____ World History and Geography
_____ World History and Geography
_____ U.S. Government

ACT PREPARATION (1 term/.5 credits)

_____ ACT Preparation

COMPUTERS (1 term/.5 credits)

_____ Computers 1

PHYSICAL EDUCATION (1 term/.5 credits)

_____ Physical Education _____

HEALTH (1 term/.5 credits)

_____ Health 1

VISUAL/PERFORM/APPLIED ARTS (2 terms/1.0 credits)

_____ _____
_____ _____

ELECTIVES

_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

WORLD LANGUAGE

_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

Potential credits to date: _____

Potential credits at HHS: _____

Total potential credits: _____

28.0 credits or less (2.0)
28.5 credits or greater (2.5) _____

Total credits
required to graduate: _____

CURRICULUM GUIDE

HAMILTON HIGH SCHOOL

2011 – 2012