



**2017-2018**

**Central | Eastern | Northern**



**High School Course Description Guide**



*All learners achieving individual potential*

# GUIDING PRINCIPLES FOR FOREST HILLS PUBLIC SCHOOLS

## Vision

All learners achieving individual potential.

## Mission

In partnership with our community, Forest Hills Public Schools will provide all learners with opportunities to acquire the knowledge, skills, and experience necessary to build meaningful and productive lives.

## Guiding Principles

We believe Forest Hills Public Schools is a learning organization, built upon integrity, and to this end:

We are committed to the principle of **Caring**.

We believe in:

- maintaining a family atmosphere
- supporting each other
- being warm, sincere, and genuine
- accepting and including everyone
- confronting the tough issues
- keeping each other safe and secure

We are committed to the principle of **Collaboration**.

We believe in:

- solving problems together
- working toward win/win
- building partnerships
- sharing best practices
- volunteering
- being generous
- engaging parents as full partners

We are committed to the principle of **Open Communication**.

We believe in:

- listening
- sharing
- promoting trust
- building community through dialogue
- encouraging participation from all

We are committed to the principle of **Diversity and Inclusiveness**.

We believe in:

- helping students value their unique talents and gifts
- knowing, understanding, and appreciating each other
- valuing individual differences
- celebrating our heritage
- healing racism
- embracing differences to enrich, strengthen, and connect our community
- striving for equity
- considering all viewpoints to arrive at better decisions

We are committed to the principle of **High Expectations**.

We believe in:

- expecting all children to learn
- requiring all to give their best
- providing opportunities for all to contribute
- assuming parents want what's best for their child
- maintaining high academic standards
- offering challenging opportunities
- helping students make healthy choices
- contributing to the development of good character

We are committed to the principle of **Learning**.

We believe in:

- learning for its own sake
- offering a range of educational opportunities
- providing diverse experiences
- individualizing learning programs
- accommodating multiple intelligences and learning styles
- preparing students for lifelong learning
- providing quality resources
- accessing the world beyond our classrooms

We are committed to the principle of **Respect**.

We believe in:

- fostering high regard for self and others
- modeling civility
- appreciating differences
- adhering to our code of conduct
- having zero tolerance for inappropriate behaviors

We are committed to the principle of **Trust**.

We believe in:

- being honest
- being consistent
- being loyal
- assuming others' intentions are good
- keeping promises
- demonstrating good stewardship

# **FOREST HILLS PUBLIC SCHOOLS**

Daniel Behm, Superintendent

*We are institutional members  
of the College Board and  
the National Association for  
College Admission Counselors  
and subscribe to the  
NACAC Statement of Principles of Good Practice*

## **Central High School**

5901 Hall Street SE  
Grand Rapids, MI 49546  
616-493-8700  
Stephen Passinault, Principal

## **Eastern High School**

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Ada, MI 49301  
616-493-8830  
Steven Harvey, Principal

## **Northern High School**

3801 Leonard NE  
Grand Rapids, MI 49525  
616-493-8600  
Jon Gregory, Principal

## **Instruction Department**

616-493-8806

Margaret Fellingner  
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\*This document is subject to revision. The most updated edition may be found at [www.fhps.net](http://www.fhps.net).

## Forest Hills Graduation Requirements

--Aligned with the Michigan Merit Curriculum approved by the Michigan Legislature in 2014, and designed so that students will have taken the appropriate courses in preparation for the Michigan Merit Exam.

SUBJECT AREA	DESCRIPTION	Personal Curriculum (PC) Modifications Sequence and delivery up to district.
<b>English Language Arts (4 credits)</b>	<ul style="list-style-type: none"> <li>1 credit in 9th, 10th, 11th, and 12th grade</li> <li>All credits aligned to state content expectations</li> </ul>	<ul style="list-style-type: none"> <li>✓ No modification except for students with an Individualized Education Program (IEP) and for transfer students who have completed 2 years of high school</li> </ul>
<b>Mathematics (4 credits)</b>	<ul style="list-style-type: none"> <li>Algebra 1</li> <li>Geometry</li> <li>Algebra 2 (<i>Algebra 2 may be taken over a 2 yr. period for 2 credits or 1.5 yrs. for 1.5 credits</i>)</li> <li>Algebra 2 can be substituted with a Career Technical Education (CTE) program or curriculum, such as electronics, machining, construction, welding, engineering, computer science, or renewable energy and in that program or curriculum successfully completing the same content as the Algebra 2 benchmarks assessed on the Department prescribed state high school assessment as determined by the Department</li> <li>1 additional math or math-related credit or a course in financial literacy</li> </ul>	<ul style="list-style-type: none"> <li>✓ Complete at least 3.5 math or math-related credits</li> <li>✓ Complete a math or math-related credit in the final 2 years</li> <li>✓ Algebra 2 may be modified if:                             <ul style="list-style-type: none"> <li>Student completes the same content as 1 semester of Algebra 2 OR</li> <li>Student “enrolls” in a formal CTE program OR curriculum and completes the same content as Algebra 2 benchmarks assessed on the Department prescribed state high school assessment, as determined by the Department OR</li> <li>Completes 1 semester of statistics, functions and data analysis or technical math</li> </ul> </li> </ul>
<b>Science (3 credits)</b>	<ul style="list-style-type: none"> <li>Biology</li> <li>Chemistry, Physics, Anatomy or Agricultural Science OR curriculum that provides the same content as the Chemistry or Physics benchmarks, as determined by the Department</li> <li>Third credit may be fulfilled by completing a Department approved Computer Science program or curriculum or CTE program or curriculum (regardless of content)</li> <li>The legislature “strongly encourages” pupils to complete a 4th credit (i.e. Forensics, Astronomy, Earth Science, Agricultural Science, Environmental Science, Geology, Physics, Chemistry, Physiology or Microbiology)</li> </ul>	<ul style="list-style-type: none"> <li>✓ No modification except for students with an IEP and transfer students who have completed 2 years of high school</li> </ul>
<b>Social Studies (3 credits)</b>	<ul style="list-style-type: none"> <li>½ Civics credit</li> <li>½ Economics credit</li> <li>1 U.S. History and Geography credit</li> <li>1 World History and Geography credit</li> <li>All credits aligned to state content expectations</li> </ul>	<ul style="list-style-type: none"> <li>✓ No modification of Civics</li> <li>✓ Minimum of 2 social studies credits prior to modification</li> <li>✓ 1 social studies credit (other than Civics) can be exchanged for an additional English language arts, math, science, or world languages credit</li> <li>✓ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school</li> </ul>
<b>Physical Education and Health (1 credit)</b>	<ul style="list-style-type: none"> <li>Credit aligned to state guidelines</li> </ul>	<ul style="list-style-type: none"> <li>✓ Credit can be exchanged for an additional English language arts, math, science, or world languages credit</li> <li>✓ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school</li> </ul>
<b>Visual, Performing, Applied Arts (1 credit)</b>	<ul style="list-style-type: none"> <li>Credit aligned to state guidelines</li> </ul>	<ul style="list-style-type: none"> <li>✓ Credit can be exchanged for an additional English language arts, math, science, or world languages credit</li> <li>✓ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school</li> </ul>
<b>World Language (2 credits)</b>	<ul style="list-style-type: none"> <li>Credits are earned in grades K-12 (course content must be age appropriate – not H.S. equivalent) OR</li> <li>An equivalent learning experience in grades K-12</li> <li>Pupils graduating in 2015-16 through 2019-20 may substitute 1 credit in CTE or Visual Performing Arts</li> </ul>	<ul style="list-style-type: none"> <li>✓ No modification except for transfer students who have completed 2 years of high school</li> </ul>
<b>Online Learning Experience</b>	<ul style="list-style-type: none"> <li>Online course, learning experience, or experience is incorporated into one or more required credits</li> </ul>	<ul style="list-style-type: none"> <li>✓ No modification except for transfer students who have completed 2 years of high school</li> </ul>
<b>Electives (4.5 credits)</b>		

## EARNING CREDIT

Students may earn credit if they successfully demonstrate mastery of subject area content expectations or guidelines for the credit. The assignment of credit must be based, at least in part, on student performance on subject area assessments, which measure the extent to which they meet the credit expectations and guidelines. Credit can be granted in a variety of ways (e.g., end-of-course exams with a passing score; dual enrollment; testing out with a minimum score of 77% per state law, accelerated, honors and/or advanced placement (AP) courses; summer school expanded learning or makeup classes). Students who are enrolled in a course but have failed the semester may earn credit for the course by taking and passing a comprehensive final exam. A grade of a D- will be awarded.

Middle school students who successfully complete one or more high school credits before entering high school and meet the same expectations and proficiency level as high school students will receive a letter grade and high school graduation credit.

Students wishing to enroll in online courses outside the school environment should see their counselor to make sure that upon completion, the course can be included on the Forest Hills transcript.

Once a student registers for and attends a class, he or she agrees to the district's requirements for earning a grade in the class. If a student fails a required course for graduation, credit is not granted and the class must be made up. Since there is little room in a student's schedule each year for makeup classes, the failed credit can be recovered in various ways, such as summer school, taking an online class, repeating the course, testing out, or other credit recovery options.

Eligible students may enroll in a prior administrator approved dual enrollment course through the counseling office. Students that provide evidence (post-secondary transcripts) of successful completion of each course may be granted high school credits toward graduation and subject area requirements. Dual enrollment classes will be recorded on student transcripts with post-secondary school noted.

Students are encouraged to repeat a course in which he/she has not demonstrated a satisfactory level of achievement. Center for Educational Performance and Information (CEPI), requires every grade for every class be listed on the student's transcript. The following policy will apply for courses repeated at Forest Hills schools, including Summer Academy:

- If a student repeats a course, a "/R" will be placed after the grade of the new course on the transcript to indicate the course has been repeated. The repeated course name will be changed, adding an asterisk to the end of the name. Only the higher grade will be included in the grade point average (GPA). Note: both grades for the course will remain on the transcript. A student will receive credit only once for each semester passed.

- Prior credit earned from accredited schools is transferable, with the following exceptions: doctrinal religion courses; driver's education; service activities such as teacher, office, or library assistant.
- When transfer students enter Forest Hills from another high school, prior course work will be converted to the Forest Hills credit equivalency. If a transcript grade is given, that grade goes on the transcript. If only a percentage is given, that is converted to the FHPS grading scale and a transcript grade is awarded.
- Prior grades will be converted to the Forest Hills grading system, and both the original transcript and the Forest Hills transcript will be part of the student's permanent record.
- Students transferring from home school will receive Forest Hills credit only if the credits come from an accredited homeschool program.
- Students transferring from a school outside the United States will receive elective credit with grades of CR, and must be able to show proficiency to earn credit in core courses.

## GRADUATING FROM FOREST HILLS PUBLIC SCHOOLS

Twenty-two and one half (22.5) credits, with specific departmental requirements, are needed to receive a diploma from Forest Hills Public Schools.

- Students who wish to complete high school in less than four years **MUST** apply to the principal for approval no later than the spring of their junior year so that a program is designed for early high school completion that is in the student's best interest. An official diploma will not be issued or graduation ceremonies held until June.
- Students lacking not more than one credit at graduation time will be permitted to participate in commencement exercises, provided they are enrolled in summer school for the necessary credit. The diploma will be withheld until all graduation requirements have been filled. Only approved courses will be accepted for graduation.
- Course work taken anywhere but Forest Hills Public Schools **must be approved in advance by the principal** to prevent loss of credit through misunderstanding. Examples: a) summer school may satisfy Michigan Merit Curriculum; b) tutoring sessions do not earn credit.
- Courses taken through correspondence or distance learning may be allowed for credit if they meet the related Michigan High School Content Expectations and provided such arrangements **have been approved in writing, in advance** of enrollment in such courses, by the student's counselor and the principal. A limited number of such credits may be approved.
- Students should see their counselor or building principal for clarification on graduation requirements outside these parameters.

## TESTING OUT GUIDELINES

PA 451, passed in 1993, allows students to test out of courses. PA 123 and PA 124, passed in 2006, add to existing law by providing students the option to demonstrate that they meet or exceed the Michigan Merit Curriculum (MMC) content expectations associated with the subject areas. In the MMC, the instruction needed to test out does not necessarily have to be delivered in a traditional "course sequence". **Forest Hills will establish reasonable times for testing out to occur. Please check your school for specific dates.**

- All interested students (including middle school students) must have the opportunity to test out.
- The law allows students to test out of **any and all** of the credit areas required for graduation.
- All content expectations need to be reasonably covered in whatever assessment or assessments are used for testing out.
- A student is granted credit if the student earns 77% or better on one or more assessments developed or selected by the district that measure a student's understanding of the subject area content expectations for guidelines that apply to the credit.
- This could include a series of smaller tests, used by the teacher over the course of the class, which taken together, cover all the content expectations.
- An assessment consisting of the end-of-marking-period exams used by the teacher.
- If a final exam is used to measure proficiency, a student must attain a grade of not less than 77%.
- If there is no final exam, the student needs to exhibit mastery through the basic assessment used in the course, which may consist of a portfolio, performance, paper, projects, or presentation.
- Credits earned through testing out may not be included in computation of the grade point average (GPA).
- Credits earned through testing out shall be counted toward graduation.

## THE PERSONAL CURRICULUM

### Purpose of the Personal Curriculum

The PC is a process to modify specific credit requirements and/or content expectations based on the Educational Development Plan (EDP) and individual learning needs of a student. It is designed to serve students who want to accelerate or go beyond the MMC requirements and students who need to individualize learning requirements to meet the MMC requirements.

The personal curriculum option allows the board of a school district or public school academy to award a regular high school diploma providing the student completes the requirements of the PC, including as many of the content expectations of the MMC as practicable. For more information, please visit [www.1.usa.gov/rPMdch](http://www.1.usa.gov/rPMdch)

### Providing Flexibility

A PC allows several flexible learning options, including:

- For any student, earning additional credit in specific subject areas and counting these credits toward meeting the state requirements.
- For students challenged with meeting Algebra 2 expectations, adjusting mathematics requirements.
- For students with an IEP, allowing modifications of the MMC necessary to demonstrate proficiency.
- For students transferring to a district from out of state or from a nonpublic school, modifications of requirements under limited conditions.

### When is a Personal Curriculum Modification Appropriate?

A personal curriculum may be appropriate for a student who has demonstrate one or more of the following:

- The ability or desire to access advanced or specialized content that cannot be met through electives (e.g., district lacks the resources to provide the course/content, or schedule does not allow student to access district offering).
- The ability to succeed in accelerated or advanced math, science, English language arts or world languages.
- The academic need to modify the Algebra 2 credit requirement.

For a student with an IEP:

- A documented need to make modifications because the student's disability affects access to and/or demonstration of proficiency in the curriculum.
- Lack of progress on the MMC despite documented interventions, supports, and accommodations.

For a transfer student:

- Transferring from out of state or from a nonpublic school after successful completion of the equivalent of two years of high school credit.

Please see your counselor if you feel you qualify for a Personal Curriculum.



## ADVANCED PLACEMENT (AP) COURSE OPPORTUNITIES AND GPA INFORMATION

A weighted grading system is in effect for Advanced Placement (AP) courses to recognize the added rigor of these courses and provide incentive for students to undertake challenging courses. Students who have taken AP courses will have 0.021 added to the **cumulative grade point average** for each semester of each course. At the end of each semester, when final grades are reported, the adjustment will be made to the GPA.

## BLENDED LEARNING

Some courses will be taught using a blended, or hybrid format. Students will be given the opportunity to participate in an online learning environment, coupled with a traditional classroom experience.

## SPANISH IMMERSION ENDORSEMENT ON TRANSCRIPT

Students graduating from Northern High School will have a Spanish Immersion endorsement on their transcript and diploma if they have been enrolled in a Spanish Immersion Program since kindergarten, or by the second semester of their first grade year. Exceptions to this guideline will be evaluated and determined by the Northern High School principal.

## ALTERNATIVE EDUCATION

Alternative Education programming information is available through the counseling offices.

## REGISTRATION PROCESS

The counselors are available for personal and academic counseling, educational program planning, test interpretation, and information about postsecondary education, financial aid, and careers. Students are encouraged to make an appointment with their counselor for assistance in any of these areas.

Counselors meet with all students individually or in small groups to help them with course selections. Students should consult with their present language arts, math, and science teachers to ensure appropriate course selections in those areas. Students should also discuss course selections with their parents. The initial course requests submitted by students are very important because they determine which courses and the number of sections of each course will be offered. If courses are not scheduled because of low demand, students who requested them will be scheduled into their alternate choices or will be asked to make another selection.

Once the scheduling process is completed, students may request schedule changes for legitimate educational reasons, upon approval of the student's counselor and provided space is available. Students requesting a change are to complete the appropriate form in the Counseling Office, and counselors will assist students in changing schedules when a change is necessary.

- The student's grade at the time of the change will be transferred to the new class.
- Course level changes recommended by the teacher and counselor, and approved by the parent or guardian, may be made any time during the semester if space allows.
- Classes dropped during the first five (5) school days of the semester will be dropped with no record on the student's transcript.
- Courses dropped after five (5) school days of the semester will be dropped with a grade of E on the student's transcript.



# DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletic scholarships, and/or compete during their first year.

## Core-Course Requirement

Complete 16 core courses in the following areas:

<div style="background-color: #004a7c; color: white; padding: 10px; border-radius: 10px 10px 0 0;"> <b>ENGLISH</b> </div> <div style="background-color: white; border: 1px solid #004a7c; border-radius: 0 10px 10px 10px; padding: 5px;"> <b>4 years</b> </div>	<div style="background-color: #004a7c; color: white; padding: 10px; border-radius: 10px 10px 0 0;"> <b>MATH</b> (Algebra I or higher)         </div> <div style="background-color: white; border: 1px solid #004a7c; border-radius: 0 10px 10px 10px; padding: 5px;"> <b>3 years</b> </div>	<div style="background-color: #004a7c; color: white; padding: 10px; border-radius: 10px 10px 0 0;"> <b>NATURAL/ PHYSICAL SCIENCE</b> (One year of lab, if offered)         </div> <div style="background-color: white; border: 1px solid #004a7c; border-radius: 0 10px 10px 10px; padding: 5px;"> <b>2 years</b> </div>	<div style="background-color: #004a7c; color: white; padding: 10px; border-radius: 10px 10px 0 0;"> <b>ADDITIONAL ENGLISH, MATH OR NATURAL/ PHYSICAL SCIENCE</b> </div> <div style="background-color: white; border: 1px solid #004a7c; border-radius: 0 10px 10px 10px; padding: 5px;"> <b>1 year</b> </div>	<div style="background-color: #004a7c; color: white; padding: 10px; border-radius: 10px 10px 0 0;"> <b>SOCIAL SCIENCE</b> </div> <div style="background-color: white; border: 1px solid #004a7c; border-radius: 0 10px 10px 10px; padding: 5px;"> <b>2 years</b> </div>	<div style="background-color: #004a7c; color: white; padding: 10px; border-radius: 10px 10px 0 0;"> <b>ADDITIONAL COURSES</b> (Any area listed to the left, foreign language or comparative religion/philosophy)         </div> <div style="background-color: white; border: 1px solid #004a7c; border-radius: 0 10px 10px 10px; padding: 5px;"> <b>4 years</b> </div>
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## Full Qualifier

- Complete 16 core courses.
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - Seven of the 10 core courses must be in English, math or science.
- Earn a core-course GPA of at least 2.300.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

## Academic Redshirt

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

## Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

## Academic Redshirt:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

## Nonqualifier:

College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.

# Test Scores

When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of **9999** so his or her scores are sent directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts will **NOT** be used in his or her academic certification.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscore from different tests are used to meet initial-eligibility requirements.

If a student took the SAT before March 2016 and then took the redesigned SAT at a later date, the NCAA Eligibility Center will not combine section scores from the former and redesigned SAT when determining his or her initial eligibility. The NCAA Eligibility Center will only combine section scores from the same version of the test. Because the redesigned SAT varies in design and measures different academic concepts than the former SAT, the Eligibility Center will apply the College Board's concordance tables when performing academic certifications for students with redesigned SAT scores.

\*To compare SAT scores, click [here](#) for a comparison table, or click [here](#) to visit the College Board's website.

DIVISION I FULL QUALIFIER SLIDING SCALE			DIVISION I FULL QUALIFIER SLIDING SCALE		
CORE GPA	SAT*	ACT SUM	CORE GPA	SAT*	ACT SUM
	READING/MATH			READING/MATH	
3.550	400	37	2.750	720	59
3.525	410	38	2.725	730	60
3.500	420	39	2.700	740	61
3.475	430	40	2.675	750	61
3.450	440	41	2.650	760	62
3.425	450	41	2.625	770	63
3.400	460	42	2.600	780	64
3.375	470	42	2.575	790	65
3.350	480	43	2.550	800	66
3.325	490	44	2.525	810	67
3.300	500	44	2.500	820	68
3.275	510	45	2.475	830	69
3.250	520	46	2.450	840	70
3.225	530	46	2.425	850	70
3.200	540	47	2.400	860	71
3.175	550	47	2.375	870	72
3.150	560	48	2.350	880	73
3.125	570	49	2.325	890	74
3.100	580	49	2.300	900	75
3.075	590	50	2.299	910	76
3.050	600	50	2.275	910	76
3.025	610	51	2.250	920	77
3.000	620	52	2.225	930	78
2.975	630	52	2.200	940	79
2.950	640	53	2.175	950	80
2.925	650	53	2.150	960	81
2.900	660	54	2.125	970	82
2.875	670	55	2.100	980	83
2.850	680	56	2.075	990	84
2.825	690	56	2.050	1000	85
2.800	700	57	2.025	1010	86
2.775	710	58	2.000	1020	86

**ACADEMIC REDSHIRT**



# 2018 DIVISION II NEW ACADEMIC REQUIREMENTS

College-bound student-athletes first enrolling at an NCAA Division II school on or after August 1, 2018, need to meet new academic rules to practice, compete and receive athletics scholarships during their first year.

## Core-Course Requirement

Complete 16 core courses in the following areas:

<p><b>ENGLISH</b></p>	<p><b>MATH</b> (Algebra I or higher)</p>	<p><b>NATURAL/ PHYSICAL SCIENCE</b> (including one year of lab science, if offered)</p>	<p><b>SOCIAL SCIENCE</b></p>	<p><b>ADDITIONAL</b> (English, math, or natural/physical science)</p>	<p><b>ADDITIONAL</b> (English, math, natural/physical science, social science, foreign language, comparative religion or philosophy)</p>
<p><b>3 years</b></p>	<p><b>2 years</b></p>	<p><b>2 years</b></p>	<p><b>2 years</b></p>	<p><b>3 years</b></p>	<p><b>4 years</b></p>

### Full Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.200.
- Earn the ACT/SAT score matching your core-course GPA on the Division II full qualifier sliding scale (see back page).
- Graduate high school.

### Partial Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division II partial qualifier sliding scale (see back page).
- Graduate high school.

### Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

### Partial Qualifier:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

### Nonqualifier:

College-bound student-athletes may not practice, compete or receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

# Test Scores

If a student took the SAT before March 2016 and then took the redesigned SAT at a later date, the NCAA Eligibility Center will not combine section scores from the former and redesigned SAT when determining his or her initial eligibility. The NCAA Eligibility Center will only combine section scores from the same version of the test. Because the redesigned SAT varies in design and measures different academic concepts than the former SAT, the Eligibility Center will apply the College Board's concordance tables when performing academic certifications for students with redesigned SAT scores.

\*To compare SAT scores, click [here](#) for a comparison table, or click [here](#) to visit the College Board's website.

DIVISION II FULL QUALIFIER SLIDING SCALE		
USE FOR DIVISION II BEGINNING AUGUST 2018		
CORE GPA	SAT*	ACT SUM
	READING/MATH	
3.300 & above	400	37
3.275	410	38
3.250	420	39
3.225	430	40
3.200	440	41
3.175	450	41
3.150	460	42
3.125	470	42
3.100	480	43
3.075	490	44
3.050	500	44
3.025	510	45
3.000	520	46
2.975	530	46
2.950	540	47
2.925	550	47
2.900	560	48
2.875	570	49
2.850	580	49
2.825	590	50
2.800	600	50
2.775	610	51
2.750	620	52
2.725	630	52
2.700	640	53
2.675	650	53
2.650	660	54
2.625	670	55
2.600	680	56
2.575	690	56
2.550	700	57
2.525	710	58
2.500	720	59
2.475	730	60
2.450	740	61
2.425	750	61
2.400	760	62
2.375	770	63
2.350	780	64
2.325	790	65
2.300	800	66
2.275	810	67
2.250	820	68
2.225	830	69
2.200	840 & above	70 & above

DIVISION II PARTIAL QUALIFIER SLIDING SCALE		
USE FOR DIVISION II BEGINNING AUGUST 2018		
CORE GPA	SAT*	ACT SUM
	READING/MATH	
3.050 & above	400	37
3.025	410	38
3.000	420	39
2.975	430	40
2.950	440	41
2.925	450	41
2.900	460	42
2.875	470	42
2.850	480	43
2.825	490	44
2.800	500	44
2.775	510	45
2.750	520	46
2.725	530	46
2.700	540	47
2.675	550	47
2.650	560	48
2.625	570	49
2.600	580	49
2.575	590	50
2.550	600	50
2.525	610	51
2.500	620	52
2.475	630	52
2.450	640	53
2.425	650	53
2.400	660	54
2.375	670	55
2.350	680	56
2.325	690	56
2.300	700	57
2.275	710	58
2.250	720	59
2.225	730	60
2.200	740	61
2.175	750	61
2.150	760	62
2.125	770	63
2.100	780	64
2.075	790	65
2.050	800	66
2.025	810	67
2.000	820 & above	68 & above

# ART DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
L900	Adaptive Arts	.5	9, 10, 11, 12	NH		
L100	Introduction to Art	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	
L200	Art Survey	.50	9, 10, 11, 12	CH, EH, NH	VPAA	
L211	Crafts/Functional Art 1	.50	9, 10, 11, 12	CH, EH, NH	VPAA	
L212	Crafts/Functional Art 2	.50	9, 10, 11, 12	CH, EH, NH	VPAA	Crafts 1
L221	Drawing & Painting 1	.50	9, 10, 11, 12	CH, EH, NH	VPAA	Introduction to Art or Art Survey with teacher recommendation
L222	Drawing & Painting 2	.50	10, 11, 12	CH, EH, NH	VPAA	Drawing and Painting 1
L223	Drawing & Painting 3	.50	10, 11, 12	CH, EH, NH	VPAA	Drawing and Painting 2
L224	Drawing & Painting 4	.50	10, 11, 12	CH, EH, NH	VPAA	Drawing and Painting 3
L231	Sculpture & Ceramics 1	.50	9, 10, 11, 12	CH, EH, NH	VPAA	
L232	Sculpture & Ceramics 2	.50	9, 10, 11, 12	CH, EH, NH	VPAA	Sculpture & Ceramics 1
L233	Sculpture & Ceramics 3	.50	10, 11, 12	CH	VPAA	Sculpture & Ceramics 2
L234	Sculpture & Ceramics 4	.50	10, 11, 12	CH	VPAA	Sculpture & Ceramics 3
L241	Photography & Graphics 1	.50	9, 10, 11, 12	CH, NH	VPAA	Introduction to Art or Art Survey
L242	Photography & Graphics 2	.50	10, 11, 12	CH, NH	VPAA	Photography & Graphics 1
L243	Photography & Graphics 3	.50	10, 11, 12	CH, NH	VPAA	Photography & Graphics 2
L244	Photography & Graphics 4	.50	10, 11, 12	CH, NH	VPAA	Photography & Graphics 3
L245	Digital Photography & Graphic Design 1	.50	10, 11, 12	EH	VPAA	Introduction to Art, Art Survey, or Computer Art & Design
L246	Digital Photography & Graphic Design 2	.50	10, 11, 12	EH	VPAA	Digital Photography & Graphic Design 1
L247	Digital Photography & Graphic Design 3	.50	10, 11, 12	EH	VPAA	Digital Photography & Graphic Design 2
L250	Computer Art & Design	.50	9, 10, 11, 12	EH	VPAA	
L600	AP Studio Art	1.00	11, 12	CH, EH, NH	VPAA	Introduction to Art or Art Survey required; Drawing & Painting recommended

**VPAA** – Meets the Visual, Performing & Applied Arts Requirement based on the Michigan Merit Curriculum.

<p><b>ADAPTIVE ARTS – L900</b>            NH 9, 10, 11, 12 .5 Credit            The Adaptive Arts class is a semester class for students receiving Special Education services. This course is designed to provide the students with a basic understanding of the visual arts through a variety of techniques. Students will be exposed to a wide range of materials and processes. More specifically, the emphasis is on the development of skills, vocabulary, and personal techniques, and exploration of famous artists and styles throughout history. <b>Basic materials are supplied. Individual projects may incur additional costs.</b></p>	<p><b>INTRODUCTION TO ART – L100</b>            CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit            This <b>full year</b> class gives students a change of pace from their other classes with a chance to express themselves and be creative. It is a prerequisite for advanced art courses that helps students realize their artistic potential and exposes students to a variety of art materials. In this course, we will explore two- and three-dimensional art in drawing, painting, design, color, printmaking, perspective, photography, portraiture, ceramics, and sculpture. Grades will be based on completion of classroom work, Visual Journals, quizzes, and an exam. <b>Basic materials are supplied. Individual projects may incur additional costs.</b></p>
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### ART SURVEY – L200

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

This **semester** class gives students a change of pace from their other classes with a chance to express themselves and be creative. It is a prerequisite for advanced art courses that helps students realize their artistic potential and exposes students to a variety of art materials. In this course, we will explore two- and three-dimensional art in drawing, painting, design, color, perspective, portraiture, ceramics, and sculpture. Grades will be based on completion of classroom work, Visual Journals, quizzes, and an exam.

**Basic materials are supplied. Individual projects may incur additional costs.**

### CRAFTS/FUNCTIONAL ART 1 – L211

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

Students will explore many techniques through hands-on learning by creating projects that may include fiber arts, jewelry making, glasswork, and wood. Grading will be based on completion of all assigned work and a final project or exam.

**Basic materials are supplied. Individual projects may incur additional costs.**

### CRAFTS/FUNCTIONAL ART 2 – L212

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

#### **Prerequisite: Crafts 1**

Students who have successfully completed Crafts/Functional Art 1 may wish to continue the exploration of advanced techniques in traditional crafts. Grading will be based on completion of all assigned work and a final project or exam. **Basic materials are supplied. Individual projects may incur additional costs.**

### DRAWING AND PAINTING 1 – L221

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

#### **Prerequisite: Introduction to Art or Art Survey**

Students will develop their personal style and meaning through the exploration of drawing, painting styles, and techniques. Pastels, acrylic paints, charcoal, colored pencils, watercolor, and ink washes are among the many materials used to study figure drawing, portraiture, advanced color theory, and composition. This course may be selected for more than one semester of advanced work. Grading will be based on completion of all assigned work, Visual Journals, quizzes, and an exam. **Basic materials are supplied. Individual projects may incur additional costs.**

### DRAWING AND PAINTING 2 – L222

CHS, EHS, NHS 10, 11, 12 .5 Credit

#### **Prerequisite: Drawing and Painting 1**

Students will continue to develop their personal style and meaning through the exploration of drawing, painting styles, and techniques to expand their personal portfolio. Pastels, acrylic paints, charcoal, colored pencils, watercolor, and ink washes are among the many materials used to study figure drawing, portraiture, advanced color theory, and composition. Grading will be based on completion of all assigned work, Visual Journals, and an exam. **Basic materials are supplied. Individual projects may incur additional costs.**

### DRAWING AND PAINTING 3 – L223

CHS, EHS, NHS 10, 11, 12 .5 Credit

#### **Prerequisite: Drawing and Painting 2**

Students will continue to develop their personal style and meaning through the exploration of drawing, painting styles, and techniques to expand their personal portfolio. Building on the skills from Drawing and Painting 2, students will experience a variety of concepts, techniques, and approaches to help them build a strong portfolio. Grading will be based on completion of all assigned work and Visual Journals. **Basic materials are supplied. Individual projects may incur additional costs.**

### DRAWING AND PAINTING 4 – L224

CHS, EHS, NHS 10, 11, 12 .5 Credit

#### **Prerequisite: Drawing and Painting 3**

This course concentrates on a more student-centered learning approach with an emphasis on portfolio development. Students will continue to develop their personal style and meaning through the exploration of drawing, painting styles, and techniques to expand their personal portfolio. They will explore the personal meaning in their artwork and look to other artists for inspiration. Grading will be based on completion of all assigned work and Visual journals. **Basic materials are supplied. Individual projects may incur additional costs.**



### SCULPTURE AND CERAMICS 1 – L231

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

Students will develop their personal style through creative hands-on, three-dimensional projects with the use of clay, wood, paper mâché, wire, plaster, recycled materials, paper, and other sculptural materials. Grades will be based on the completion of all assigned work and an exam. **Basic materials are supplied. Individual projects may incur additional costs.**

### SCULPTURE AND CERAMICS 2 – L232

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

**Prerequisite: Sculpture and Ceramics 1**

Students will continue to develop a personal portfolio and their personal style and meaning through creative hands-on, three-dimensional projects with the use of clay, wood, paper mâché, wire, plaster, recycled material, paper, and other sculptural materials. Grades will be based on the completion of all assigned work and an exam. **Basic materials are supplied. Individual projects may incur additional costs.**

### SCULPTURE AND CERAMICS 3 – L233

CHS 10, 11, 12 .5 Credit

**Prerequisite: Sculpture and Ceramics 2**

Students will continue to develop a personal portfolio and explore their personal style and meaning by creating hands-on, three-dimensional projects. Students will explore image transfers, slip-layering techniques, advanced throwing techniques, monoprints, paper pattern resist techniques, creating stamps, assemblages, and additive and subtractive sculptures. Grades will be based on the completion of all assigned work. **Basic materials are supplied. Individual projects may incur additional costs.**

### SCULPTURE AND CERAMICS 4 – L234

CHS, EHS, NHS 10, 11, 12 .5 Credit

**Prerequisite: Sculpture and Ceramics 3**

Building on the skills and techniques from the previous Sculpture and Ceramics classes, students will continue to develop a personal portfolio and their personal style and meaning through creative hands-on, three-dimensional projects. This course is based on student-centered learning with emphasis on portfolio development to explore techniques in depth to create a strong voice and meaning in their artwork. Students will also explore sculptures inspired by other artists. **Basic materials are supplied. Individual projects may incur additional costs.**

### PHOTOGRAPHY AND GRAPHICS 1 – L241

CHS, NHS 9, 10, 11, 12 .5 Credit

**Prerequisite: Introduction to Art or Art Survey**

Through the use of an SLR camera, black and white film, and digital photography, students will explore the history of photography, learn the parts of an SLR manual camera, shoot several photo assignments, understand the chemical processes of developing film and processing prints, learn darkroom procedures and how to mount photos, and will evaluate their own work. Students will also be able to creatively express themselves through graphic design projects. Grades will be based on the completion of projects, quizzes, and an exam. **Basic materials are supplied. Individual projects may incur additional costs.**

### PHOTOGRAPHY AND GRAPHICS 2 – L242

CHS, NHS 10, 11, 12 .5 Credit

**Prerequisite: Photography and Graphics 1**

Students will continue to explore advanced black and white film through darkroom techniques and digital photography techniques enhanced by Photoshop and or Illustrator. Students will explore sepia toning, etched printmaking based on a photograph, photo silk-screening, photo transfers, hand tinting of photographs, and solarization. Grades will be based on the completion of projects, quizzes, and an exam. **Basic materials are supplied. Individual projects may incur additional costs.**

### PHOTOGRAPHY AND GRAPHICS 3 - L243

CHS, NHS 10, 11, 12 .5 Credit

**Prerequisite: Photography and Graphics 2**

Students will continue to explore advanced black and white film through darkroom techniques and digital photography techniques enhanced by Photoshop and/or Illustrator and build on the techniques learned in the previous classes to develop a strong personal portfolio. Students will explore advanced techniques of film double exposure, masking, dodging and burning, liquid emulsion transfer, and a photo within a photo. Grades will be based on the completion of projects and a final project. **Basic materials are supplied. Individual projects may incur additional costs.**

### PHOTOGRAPHY AND GRAPHICS 4 - L244

CHS, NHS 10, 11, 12 .5 Credit

**Prerequisite: Photography and Graphics 3**

Students will continue to explore advanced black and white film through darkroom techniques and digital photography techniques enhanced by Photoshop and/or Illustrator and develop a personal portfolio. Students will explore sepia toning, etched printmaking based on a photograph, photo silk-screening, photo transfers, hand tinting of photographs, and solarization. Grades will be based on the completion of projects and a final project. **Basic materials are supplied. Individual projects may incur additional costs.**



## DIGITAL PHOTOGRAPHY AND GRAPHIC DESIGN 1 – L245

EHS 10, 11, 12 .5 Credit

**Prerequisite:** Introduction to Art, Art Survey, or Computer Art & Design

Nearly all students nowadays are carrying cameras in their pockets, and in this course, they will get a chance to use them. More advanced digital cameras will also be used to teach students how to set up and capture the perfect shot. The course also takes advantage of computer programs for editing photos and creating graphic designs, including logos, advertisements, packaging, and more. Grading will be based on project evaluations, which may include some writing and a final exam, but emphasis is placed on learning through doing. **Basic materials are supplied. Individual projects may incur additional costs.**

## DIGITAL PHOTOGRAPHY AND GRAPHIC DESIGN 2 – L246

EHS 10, 11, 12 .5 Credit

**Prerequisite:** Digital Photography and Graphic Design 1

This course will build off student experience from prior classes. With less coverage of the basics, students are freer to put their knowledge to work and create digital artwork that is meaningful to them. Familiar computer programs like the Adobe Creative Suite will continue to be available for use. Grading will be based on project evaluations, which may include some writing and a final exam, but emphasis is placed on learning through doing. **Basic materials are supplied. Individual projects may incur additional costs.**

## DIGITAL PHOTOGRAPHY AND GRAPHIC DESIGN 3 – L247

EHS 10, 11, 12 .5 Credit

**Prerequisite:** Digital Photography and Graphic Design 2

This course will build off student experience from prior classes and is recommended only for advanced, self-driven students. With less coverage of the basics, students are freer to put their knowledge to work and create digital artwork that is meaningful to them. Familiar computer programs like the Adobe Creative Suite will continue to be available for use. Grading will be based on project evaluations, which may include some writing and a final exam, but emphasis is placed on learning through doing. **Basic materials are supplied. Individual projects may incur additional costs.**

## COMPUTER ART & DESIGN – L250

EHS 9, 10, 11, 12 .5 Credit

Computer Art & Design gives students the opportunity to explore art and creativity using computers. This course helps prepare students for more advanced and focused courses that use computer graphics like Digital Photography & Graphic Design and AP Art Studio. Students will learn the basics on computers while using a number of computer art programs, including the Adobe Creative Suite. The skills learned in Computer Art & Design are perfect for other classes as well, like Gone Boarding, to create impressive graphics. When necessary, students will also have the opportunity to explore traditional art as well (drawing, painting, etc.) to use in their work. Grading will be based on project evaluations, which may include some writing and a final exam, but emphasis is placed on learning through doing. **Basic materials are supplied. Individual projects may incur additional costs.**

## AP STUDIO ART – L600

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite:** Introduction to Art or Art Survey; Drawing and Painting 1 is recommended

Advanced Placement Studio Art is a college level course that is designed for students who are interested in the freedom to express their personal style and voice through the practical expression of art and wish to develop a mastery in the concept, composition, and execution of their ideas. In the building of their portfolio, students experience a variety of concepts, techniques, and approaches designed to help them demonstrate their abilities as well as their versatility with techniques problem solving and ideation. Students will also develop a body of work for the Concentration and Breadth sections of their portfolio that investigates an idea of personal interest. Grading follows the AP Rubric for all projects and a final portfolio. **Basic materials are supplied. Individual projects may incur additional costs.**

# BUSINESS DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
<b>BUSINESS MANAGEMENT COURSES</b>						
G100	Introduction to Business	.50	9, 10, 11, 12	CH, EH, NH		
G140	Accounting	.50/sm 1.0/yr	9, 10, 11, 12	CH, EH, NH	4th yr Math	
G145	Accounting 2	1.00	10, 11, 12	CH, EH, NH	4th yr Math	Accounting
G170	Personal Finance	.50/sm 1.0/yr	9, 10, 11, 12	CH, EH, NH	4th yr Math	
<b>COMPUTER INFORMATION SYSTEM COURSES</b>						
G120	Computer Info Systems 1	.50	9, 10, 11, 12	EH, NH		
G125	Computer Info Systems 2	.50	9, 10, 11, 12	EH, NH		
G520	Computer Science Pgm	.50	9, 10, 11, 12	NH	4th yr Math	
G521	Tech Ninjas	.50/sm 1.0/yr	10, 11, 12	CH, EH, NH		
G530	Information Technology	.50/sm 1.0/yr	10, 11, 12	EH	VPAA	
G540	Computer Graphics/Game Design	.50/sm 1.0/yr	10, 11, 12	EH	4 <sup>th</sup> yr Math VPAA	Computer Info Systems 1 and teacher approval
G620	AP Computer Science Programming	1.00	11, 12	CH		Computer Science Programming & Algebra 1
G625	AP Computer Science Principles	1.00	9, 10, 11, 12	CH	4 <sup>th</sup> yr Math	
<b>BUSINESS MARKETING COURSES</b>						
G210	Marketing 1	.50	9 EH 10, 11, 12	CH, EH, NH	4th yr Math VPAA	
G215	Marketing 2	.50	9 EH 10, 11, 12	CH, EH, NH	4th yr Math VPAA	Marketing 1 & Intro to Business
G217	Sports Marketing	.50	11, 12	CH, NH		Intro to Business
G220	Advanced Marketing	1.00	11, 12	CH, EH, NH	4 <sup>th</sup> yr Math VPAA	Marketing 1 & 2
V310	Work Experience	.50/sm 1.0/yr	11, 12	CH, EH, NH		
V410	Cooperative Education	1.0/sm	11, 12	CH, EH, NH		

**4th Year Math** - Meets the Senior Math Requirement based on the Michigan Merit Curriculum if taken during senior year.  
**VPAA** – Meets the Visual, Performing & Applied Arts Requirement based on the Michigan Merit Curriculum.

## BUSINESS MANAGEMENT COURSES

### INTRODUCTION TO BUSINESS/ENTREPRENEURSHIP – G100

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

This introductory class explores the basic fundamentals of business including principles and practices that form the groundwork for all business operations. Students will learn how business impacts their daily life and the important role teenage consumers play in our society. College credit available through Davenport and GRCC. May fulfill the cooperative education/work experience requirement.

### ACCOUNTING – G140

CHS, EHS, NHS 9, 10, 11, 12 .5/sm; 1.0/yr Credit

This course involves recording, analyzing, and interpreting financial information. Those who know basic accounting principles and concepts are better able to plan and keep adequate personal budgets and business records. Accounting is the language of business. Many students graduating from Forest Hills go into some type of business-related study. Students will study accounting procedures for a sole proprietorship, a partnership, and a corporation as it relates to our global economy. This course may fulfill the cooperative education/work experience requirement. **May qualify as a 4<sup>th</sup>-year math-related course.** College credit available through Davenport and GRCC. This course may be taken 2 semesters for 1.0 credit.

### PERSONAL FINANCE – G170

CHS, EHS, NHS 9, 10, 11, 12 .5/sm; 1.0/yr Credit

This course is designed to teach personal money management as well as reinforce basic math skills. Students will discuss fundamentals of finance, solve business math problems, and deal with “real-life” financial situations. Concepts that are covered include banking, investing, budgeting, taxes, insurance, and credit. May fulfill the cooperative education/work experience requirement. **May qualify as a 4<sup>th</sup>-year math-related course.** College credit available through Davenport and GRCC. Personal Finance is offered for one semester at CHS and is a full-year course at NHS and EHS.

### ACCOUNTING 2 – G145

CHS, EHS, NHS 10, 11, 12 1.0 Credit

#### **Prerequisite: Accounting**

*U.S.A. Today* reports that the number of individuals owning their own businesses and becoming entrepreneurs is skyrocketing. To develop a business plan successfully, students need to understand financial concepts and statements. Creative problem-solving skills will enable students to make better decisions. Students will learn computerized accounting and sharpen existing knowledge and skills. May fulfill the cooperative education/work experience requirement. **May qualify as a 4<sup>th</sup>-year math-related course.** College credit available through Davenport and GRCC.

## COMPUTER INFORMATION SYSTEM COURSES

### COMPUTER INFORMATION SYSTEMS 1 (CIS 1) – G120

EHS, NHS 9, 10, 11, 12 .5 Credit

Self-paced assignments and projects will further develop computer skills students already possess to the level demanded by colleges and employers. A variety of software applications will be used as well as the Microsoft Office Suite to allow students to enhance their skills. May fulfill the cooperative education/work experience requirement. College credit available through Davenport and GRCC if you take both CIS 1 & 2.

### COMPUTER INFORMATION SYSTEMS 2 (CIS 2) – G125

EHS, NHS 9, 10, 11, 12 .5 Credit

This sampler course covers more advanced software applications. Students will be using freeware, Expression Studio, Fireworks, as well as 3-D graphics software for web or game development. Design elements, desktop publishing, customized reports, advanced presentation techniques are some topics that may be covered. May fulfill the cooperative education/work experience requirement.

### COMPUTER SCIENCE PROGRAMMING – G520

NHS 9, 10, 11, 12 .5 Credit

This introductory computer programming course teaches students to design, document, write, and de-bug programs to solve business and scientific problems, utilizing algorithms, logical analysis, and flow charts to aide in the development of top-down computer programs. **May qualify as a 4<sup>th</sup>-year math-related course.**

### TECH NINJAS - G521

CHS, EHS, NHS 10, 11, 12 .5/sm; 1.0/yr Credit

Student Technology Innovation and Integration (Tech Ninja) course is a hands-on study of technology integration in an educational context. Students will be required to assess problem sets throughout the day and define the best approach to addressing or solving the problem. In addition to solving problems for students and teachers, students will be required to complete and maintain projects that address problems or solutions in educational technology integration.

### INFORMATION TECHNOLOGY (IT) – G530

EHS 10, 11, 12 .5/sm; 1.0/yr Credit

**Prerequisite: Successful completion of CIS 1 and 2 / Teacher Approval**

This course provides students with the opportunity to explore in the world of web design. In this course, students will learn to format images and pictures as well as create their own images and logos using Macromedia FIREWORKS. They will also be learning the basics of FLASH ANIMATION, and then use these skills to design, create and maintain their own websites. Students will also spend time learning the business side and career opportunities available in the web design world. This course may be taken 2 semesters for 1.0 credit.

### COMPUTER GRAPHICS/GAME DESIGN – G540

EHS 10, 11, 12 .5/sm; 1.0/yr Credit

**Prerequisites: Successful completion of CIS 1/Teacher approval**

This course provides students the opportunity to discover new ideas, new solutions, and new ways to approach real-world problems through the creation of video games. Students will analyze, brainstorm, and create solutions using a step-by-step design process while applying skills learned from math, language, science, art, and technology classes. Web simulations are being used not only in the entertainment industry, but also as valuable simulations in medical, military, and aerospace fields. College credit available through Davenport and GRCC. May fulfill the cooperative education/work experience requirement. **May qualify as a 4<sup>th</sup>-year math-related course.** This course may be taken 2 semesters for 1.0 credit.

### AP COMPUTER SCIENCE PROGRAMMING – G620

CHS 11, 12 1.0 Credit

**Prerequisite: Computer Science Programming and Algebra 1**

This college entry-level computer science course, currently taught in JAVA, includes problem solving skills, algorithm development and analysis, programming design, data structures, case studies and hardware and software technologies. Students are encouraged to take the AP Computer Science exam offered in May. **May qualify as a 4<sup>th</sup>-year math-related course.**

### AP COMPUTER SCIENCE PRINCIPLES – G625

CHS 11, 12 1.0 Credit

This course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends.

## BUSINESS MARKETING COURSES

All marketing classes are related courses for Cooperative Education.

### MARKETING 1 – G210

CHS, EHS, NHS 9 (EH), 10, 11, 12 .5 Credit

This course introduces students to the various functions of marketing, free enterprise, sales and explores employability skills for those interested in marketing as a career option. Students will be involved in group work and hands-on activities including a sales presentation. May fulfill the cooperative education/work experience requirement. **May qualify as a 4<sup>th</sup>-year math-related course.** College credit available through Davenport (if both Mktg 1 and 2 are taken) and GRCC.

### MARKETING 2 – G215

CHS, EHS, NHS 9 (EH), 10, 11, 12 .5 Credit

#### Prerequisite: Marketing 1 & Intro to Business

The course allows students to continue studying marketing, business, economics, free enterprise, and entrepreneurship. Project and group learning is utilized to gain competencies in entrepreneurship including, merchandising, advertising, promotion, and human relations. Students participate in "hands-on" activities such as a stock market and/or small business simulation. May fulfill the cooperative education/work experience requirement. **May qualify as a 4<sup>th</sup>-year math-related course.** College credit available through Davenport (if both Mktg 1 and 2 are taken) and GRCC.

## SPORTS MARKETING – G217

CHS, NHS 11, 12 .5 Credit

#### Prerequisite: Intro to Business

Sports Marketing will cover such topics as promotion, pricing, event planning, apparel/merchandising, and other marketing-related concepts related to the sports industry. Students who are enrolled in this course will be working in tandem with their school's Athletic Department during after-school sporting events. Come learn about one of the up-and-coming fields in marketing, while participating in a hands-on, project-based class!

## ADVANCED MARKETING – G220

CHS, EHS, NHS 11, 12 1.0 Credit

#### Prerequisite: Marketing 1 and 2

Students will apply management/marketing skills in a retail setting through operating the school store. Problem-based learning is utilized to gain competencies in management and entrepreneurship including inventory control, purchasing, cash management, merchandising, advertising, promotion, and human relations. This course fulfills the cooperative education/work experience requirement. **May qualify as a 4<sup>th</sup>-year math-related course.**

## WORK EXPERIENCE – V310

CHS, EHS, NHS 11, 12 .5/sm; 1.0/yr Credit

This course is an opportunity to earn credit while you are employed on a part-time basis. Your related class is determined by your career pathway goals and your current job.

#### Student Requirements:

- Updated Educational Development Plan (EDP) with Career Pathway indicated.
- Enrollment in a class that connects to your career pathway on the EDP and the work you do on your job. The class must have been taken prior to or scheduled concurrently with Work Experience, and not only scheduled the following semester.
- Employment that provides an average of 10 hours per week, for a total of 125 hours per semester.
- Required meetings with the assigned coordinator and employer.
- Signed time sheets must be submitted every two weeks.
- All forms required by the State must be completed and on file to earn credit.
- All jobs must be approved by the individual school's work-based education coordinator.

## COOPERATIVE EDUCATION (CO-OP) – V410

CHS, EHS, NHS 11, 12 1.0/sm Credit

The unique relationship between school and the community gives students experiences in job-related areas that could define a college/career pathway of their choice. Students work closely with a school coordinator to develop a learning/training agreement with the employer who supervises the student at work.

#### Student Requirements:

- Updated Educational Development Plan (EDP) with Career Pathway indicated.
- Enrollment in a class that connects to your career pathway and the work you do on your job. This course must be taken concurrently with Co-op.
- Employment that provides an average of 15 hours per week, for a total of 270 hours for the semester.
- Required meetings with your assigned coordinator and employer.
- Signed time sheets must be submitted every two weeks.
- All forms required by the State must be completed and on file to earn credit.
- All jobs must be approved by the individual school's work-based education coordinator.

# COMMUNICATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
A100	Communication	.50	9, 10, 11, 12	CH, EH, NH	VPAA	
A120	Media Communication	.50	9, 10, 11, 12	CH, EH, NH	VPAA	
A130	Competitive Speech & Drama	.50	9, 10, 11, 12	CH, NH	VPAA	By application
A140	Strategic Debate	.50	9, 10, 11, 12	CH, NH	VPAA	
A150	Theatre Arts 1	.50	9, 10, 11, 12	CH, EH, NH	VPAA	
A155	Theatre Arts 2	.50	9, 10, 11, 12	CH, EH, NH	VPAA	Theatre Arts I
A210	Musical Theatre	.50	9, 10, 11, 12	CH, EH, NH	VPAA	Theatre Arts I or Instructor approval
A215	Summer Stock	.50	9, 10, 11, 12	CH, EH, NH	VPAA	
A250	Technical Theatre	.50	10, 11, 12	CH, EH, NH		
A310	TV Broadcast Lab	1.00	10, 11, 12	CH, EH, NH	VPAA	Media Communication, application and instructor approval
A330	Film Projects	.50	11, 12	CH, EH, NH	VPAA	

**VPAA** – Meets the Visual, Performing & Applied Arts Requirement based on the Michigan Merit Curriculum.

## COMMUNICATION – A100

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

This project-based course provides students with the opportunity to improve their ability to effectively communicate by practicing personal and professional communication skills. Specifically designed for the success of both the student who fears public speaking as well as the confident speaker who is interested in developing his/her skills, students engage in projects intended to foster critical thinking, collaboration and creativity. Studies will include every day communication, public speaking, and intercultural communication through on-line media exchanges.

## MEDIA COMMUNICATION – A120

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

In this multi-media lab course, students will complete a series of projects that will engage them in the process of becoming literate in communication technology. The role of emerging technology resources and their impact on the etiquette of individual communication, personal perception, and society will be studied through the application of video production and multi-media projects. Students will identify the capabilities and limitations of emerging communication resources and understand the importance of the impacts of technology on human communication. This course is designed to encourage students to become media-literate consumers.

## COMPETITIVE SPEECH & DRAMA – A 130

CHS, NHS 9, 10, 11, 12 .5 Credit

\*Application Needed

Students are introduced to a competitive public speaking curriculum focusing on oratory skills. The basic principles of composition, delivery, and criticism are introduced and practiced. Individual events include manuscripts, extemporaneous and impromptu speaking, poetry, prose and storytelling, individual and ensemble dramatic interpretation. Students who are interested in intramural as well as extra-curricular competition will be given opportunities to compete against students from other area high schools. Students are required to participate in the extracurricular Individual Events league-level tournaments.

## STRATEGIC DEBATE – A140

CHS, NHS 9, 10, 11, 12 .5 Credit

In this course, students will focus primarily on legislative debate. Students will research and write bills, and debate them under the guidelines of the Michigan Interscholastic Forensics Association (MIFA). Students will also learn parliamentary procedure and have the opportunity to presiding officers. Any student wishing to compete in MIFA-sponsored legislative debate tournaments may do so but will have to pay for travel and lodging if applicable. A portion of the course will also be dedicated to cross-examination policy debate, although students wishing to compete in this format will meet after school twice per week and also will be responsible for travel and lodging costs if applicable. Students may take this course for more than one semester.

### **THEATRE ARTS 1 – A150**

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

Theatre allows students an opportunity to explore the world of creativity through the eyes and experience of an actor's perspective. Students will study acting through the use of improvisation, monologue, and scene work as well as activities designed to enhance everyday participation skills and self-confidence. Students will apply their learning in a performance based, active setting which will allow them to build criteria to critically evaluate the theatre experience.

### **THEATRE ARTS 2 – A155**

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

#### **Prerequisite: Theatre Arts 1**

An in-depth study and application of skills learned in Theatre Arts I. Activity projects such as scene cutting, one-act plays, and development of original work are aimed at performance level for a class-selected audience. This course may be repeated for additional credit depending upon the student's intent and interest in selected areas of theatre.

### **MUSICAL THEATRE – A210**

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

#### **Prerequisite: Theatre Arts 1 or Instructor approval**

This course utilizes a direct approach to producing a musical. It introduces students to the world of musical theatre by guiding them through first hand experiences in a number of areas: music preparation, choreography, auditions process, musical history, and performance. All students taking the course will be involved in the production/showcase to be performed at the end of the semester.

### **SUMMER STOCK – A215**

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

Summer Stock is a summer musical theatre course for students from CHS, EHS, NHS and surrounding communities. This course is a tuition-based experience for incoming 9<sup>th</sup> graders through out-going seniors. Students enrolled in the course will be responsible for mounting a Broadway-style show to be performed in July. Registration for auditions are generally held in February. More information is available through the community services office web site [www.enjoylearning.com](http://www.enjoylearning.com) or by calling 493-8950.

### **TECHNICAL THEATRE – A250**

CHS, EHS, NHS 10, 11, 12 .5 Credit

This is a beginning course in technical theatre production. Students will survey the aspects of technical theatre including lighting, sound, costume and makeup, set construction, props, and stage management in this project-based class. Projects for the class are designed to support students' areas of interest and school productions. Students will be required to complete a technical internship on a school production. Working at the Forest Hills Fine Arts Center will fill this requirement.

### **TV BROADCAST LAB – A310**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

#### **Prerequisite: Media Communication, application, and Instructor approval**

The primary goals of the class will be determined by the production of the daily, live broadcast of a magazine-style school news show. The responsibility of the class is to become an effective voice for the student body. Students will apply the elements of television production in an advanced studio/lab setting. The students assume the roles and responsibilities of producer, technical director, floor director, audio and camera operator, production assistant, scriptwriter, and on-air personality. Upon completion of this course the student should understand the power, effect, and influence of television and video production as a communication medium within our culture. This course may be repeated for additional credit depending upon the student's intent and interest in the broadcast media.

### **FILM PROJECTS – A330**

CHS, EHS, NHS 11, 12 .5 Credit

This is an advanced course in which students study and critique films as well as create them in the format of film short features. Students will direct and edit original productions in a variety of genres. Practical experience in various aspects of direction, cinematography, and production will be explored through small group projects and discussion of history, directors, actors, filmmaking process as well as the social, cultural, and personal connections presented through film. Instruction will emphasize continuity, composition, and the art of effectively communicating media messages. Evaluation will focus on the student's ability to meet creative, ethical, and technical requirements. Projects will be developed for public audiences and academic competition.



# ENGINEERING, MANUFACTURING, AND INDUSTRIAL TECHNOLOGY DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
<b>ENGINEERING COURSES</b>						
I120	Architectural Rendering & Design	.50	9, 10, 11, 12	CH, EH, NH	VPAA or 4th yr Math	
I125	Advanced Architecture	1.00	9, 10, 11, 12	CH, EH, NH	VPAA or 4th yr Math	Architectural Rendering & Design
I130	Engineering Graphics 1	.50	9, 10, 11, 12	CH, EH, NH	VPAA or 4th yr Math	
I132	Engineering Graphics 2	1.00	10, 11, 12	CH, EH, NH	VPAA or 4th yr Math	Architectural Rendering & Design or Engineering Graphics 1
I133	Engineering Graphics 3	1.00	10, 11, 12	CH, EH, NH	VPAA or 4th yr Math	Architectural Rendering & Design or Engineering Graphics 2
<b>MANUFACTURING COURSES</b>						
I100	Bench Woodworking	.50	9, 10, 11, 12	CH, EH, NH	VPAA	
I200	Advanced Woodworking	1.00	10, 11, 12	CH, EH, NH	VPAA	Bench Woodworking
M250	Gone Boarding	1.00	10, 11, 12	CH, EH, NH	VPAA. Phys Ed, or 4 <sup>th</sup> yr Math	
<b>ADDITIONAL ENGINEERING, MANUFACTURING AND INDUSTRIAL TECHNOLOGY COURSE</b>						
I500	Robotics	.50	9, 10, 11, 12	CH, NH	4th yr Math	

**4th Year Math** – Meets the Senior Math Requirement based on the Michigan Merit Curriculum if taken during senior year.

**VPAA** – Meets the Visual, Performing & Applied Arts Requirement based on the Michigan Merit Curriculum.

## ENGINEERING COURSES

<p><b>ARCHITECTURAL RENDERING AND DESIGN – I120</b> CHS, EHS, NHS      9, 10, 11, 12      .5 Credit</p> <p>This course is designed to teach students to communicate architecture design through Computer Aided Drafting (CAD). They will learn fundamentals of construction and elements of architecture by developing a full set of house plans using CAD software. They also will learn architectural standards throughout the development of their residential prints. Most of the semester will be focused on learning the details of floor plan layout and presentation drawings with elevations. The last part of the semester will focus on applying knowledge of architecture design to generating a computer aided 3D model. This course is an excellent introduction for students interested in the field of architecture. <b>May qualify as a 4<sup>th</sup>-year math-related course.</b></p>	<p><b>ADVANCED ARCHITECTURE – I125</b> CHS, EHS, NHS      9, 10, 11, 12      1.0 Credit (.5 credit w/instructor permission)</p> <p><b>Prerequisite: Architectural Rendering and Design</b> Advanced Architecture provides an opportunity for students to further their study in the field of architecture. Students will be encouraged to explore residential and commercial design by comparing and contrasting exciting styles and practices as well as re-thinking how homes function and how the form reflects and enhances that function. Architecture projects will involve research and analysis of well-known architects, exploration of the theory of design and more advanced drafting techniques. Projects will be presented as hand drawings, physical models, computer-aided drawings, and computer-aided 3D models. <b>May qualify as a 4<sup>th</sup>-year math-related course.</b></p>
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### ENGINEERING GRAPHICS 1 – I130

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

This course is the essential prerequisite for any student interested in engineering. It involves careful examination of drafting as a tool of technical communication and engineering for solving graphical problems. While taking the course, students will develop manual and Computer Aided Design (CAD) techniques and its applications to the field of engineering and industrial design. The students will use CAD software for 2D drafting and 3D modeling. **May qualify as a 4<sup>th</sup>-year math-related course.**

### ENGINEERING GRAPHICS 2 – I132

CHS, EHS, NHS 10, 11, 12 1.0 Credit  
(.5 credit w/instructor permission)

**Prerequisite: Architectural Rendering and Design or Engineering Graphics 1**

Engineering Graphics 2 is a full year, follow-up course to Engineering Graphics 1 that provides students with an opportunity to extend their knowledge of engineering graphics and procedures used in developing technical drawing and 3D models. Students will continue to develop the spatial skills necessary for the field of engineering and design. CAD software will be used for this class. **May qualify as a 4<sup>th</sup>-year math-related course.**

### ENGINEERING GRAPHICS 3 – I133

CHS, EHS, NHS 10, 11, 12 1.0 Credit  
(.5 credit w/instructor permission)

**Prerequisite: Architectural Rendering and Design or Engineering Graphics 2**

This advanced class will utilize the “DBA” (Design, Build, and Analyze) style of learning using multiple areas of common engineering methods and materials in order to solve real-world problems in project-based construction applications. Students will work independently while applying engineering solutions to graphical projects. **May qualify as a 4<sup>th</sup>-year math-related course.**

## MANUFACTURING COURSES

### BENCH WOODWORKING – I100

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

This course is designed to give students an understanding and appreciation of the methods and materials used in basic woodworking. Students will learn the appropriate skills needed to complete a variety of wood projects. Following safety guidelines, students will strive for strong work habits and quality craftsmanship. **Basic materials are supplied. Individual projects may incur additional costs.**

### ADVANCED WOODWORKING

### TECHNOLOGY – I200

CHS, EHS, NHS 10, 11, 12 1.0 Credit  
(.5 credit w/instructor permission)

**Prerequisite: Bench Woodworking**

This course increases the student's skill in the use of hand tools, portable power tools, and machinery. Topics include tool technology and joinery as it pertains to project construction. Focus is on the design and fabrication of a solid wood furniture type project. Students are required to complete the assigned project and a project of their choice with instructor approval to develop advanced woodworking skills for two semesters. Students may retake course multiple times for additional credit. **Basic materials are supplied. Individual projects may incur additional costs.**

### GONE BOARDING – M250

CHS, EHS, NHS 10, 11, 12 1.0 Credit

This cross-curricular class (Physical Education, Mathematics, and VPAA – choose 2) will run as a 2-hour block with a portion of the time spent collaboratively designing and producing a snowboard, long-board, and surfboard/stand up paddleboard. Students will use mathematical practices for college and career readiness during this process. The other portion will engage students in learning and developing the physical skills involved in snowboarding, long-boarding, and surfing/stand up paddling. Through this course, students will participate in the product development process as well as develop an approach to lifelong wellness.

### ROBOTICS – I500

CHS, NHS 9, 10, 11, 12 .5 Credit

The objective of this course is to use a **hands-on** approach to introduce the basic concepts in robotics. Course information will be tied to lab experiments; students will work in teams to build robots, culminating in an end-of-semester *robot contest*. This course introduces fundamental concepts in Robotics. In this course, basic concepts will be discussed, including coordinate transformations, sensors, path planning, kinematics, feedback and feed forward control, stressing the importance of integrating sensors, effectors and control. These topics will be exemplified with labs. This course is intended for students with interests in Science, Technology, Engineering and Mathematics. There are no prerequisites. **May qualify as a 4<sup>th</sup>-year math-related course.**

# ENGLISH AND LANGUAGE ARTS DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
B110	English 9	1.00	9	CH, EH, NH	ELA	
B112	Biology/Literature Block	2.00	9	EH, NH	Biology/ELA	
B115	Honors English 9	1.00	9	CH, EH, NH	ELA	Selection Process
B210	English 10	1.00	10	CH, EH, NH	ELA	
B212	English 10/US History Block	2.00	10	CH, EH	ELA/US Hist	
B215	Honors English 10	1.00	10	CH, EH, NH	ELA	Selection Process
B310	English 11	1.00	11	CH, EH, NH	ELA	
B312	English 11/World Hist Block	2.00	11	CH, EH	ELA/Wld Hist	
B611	AP English Language & Composition	1.00	11	CH, EH, NH	ELA	Summer reading before the course begins in the fall is required
<b>12<sup>th</sup> GRADE ENGLISH OFFERINGS</b>						
B402	Senior Classical Literature	.50	12	CH, EH, NH	ELA	
B404	Senior Composition	.50	12	CH, EH, NH	ELA	
B406	Senior Creative Writing	.50	12	CH, EH, NH	ELA	
B407	Senior Contemp Literature	.50	12	EH	ELA	
B409	Senior Literature	.50	12	CH, EH, NH	ELA	
B410	Senior Reading & Writing	.50	12	CH, EH, NH	ELA	
B412	Writing for Digital Media	.50	12	EH	ELA	
B414	Senior English Seminar	.50	12	CH, EH, NH	ELA	
B532	Literature & Cinema	.50	12	CH	ELA	
B612	AP Literature & Composition	1.00	12	CH, EH, NH	ELA	Summer reading assignments required and due when class begins
<b>ADDITIONAL ENGLISH ELECTIVES</b>						
B510	Yearbook	1.00	11, 12	CH, EH, NH	VPAA	Application and instructor approval
B520	Writing for Publication	.50	9, 10, 11, 12	CH, EH, NH	VPAA (CHS)	
B525	Advanced Writing for Publication	NH - .50 1.00	10, 11, 12	CH, EH, NH	VPAA	Journalism, application, writing sample, and instructor approval
B800	English Learners (EL)	1.00	9, 10, 11, 12	CH, EH, NH	ELA CH only	English Learners and instructor recommendation

**English Language Arts (ELA)** – Meets the English Language Arts Requirement based on the Michigan Merit Curriculum.  
**Biology** – Meets the Biology Requirement based on the Michigan Merit Curriculum.

## 9<sup>TH</sup> GRADE ENGLISH OFFERINGS

### ENGLISH 9 – B110

CHS, EHS, NHS 9 1.0 Credit

This course fulfills the graduation requirement for English 9 as outlined in the Michigan Merit Curriculum. The overarching focus of the journey will be analyzed throughout the year. All students will read narrative and informational text, write in various genres, study grammar and Greek and Latin roots in vocabulary to develop their own writing, and improve their communication skills. The writing process is emphasized as a tool for advancing composition proficiency. Students will apply the research skills of synthesis, MLA documentation, and parenthetical citations in a research paper.

### BIOLOGY/LITERATURE BLOCK – B112

EHS, NHS 9 1.0 Cr Bio & 1.0 Cr ELA

The Biology/Literature Block is a project-based, collaborative course based on laboratory investigations and a study of language, literature, composition, and oral communication with a focus on exploring a wide-variety of genres and their elements. This will include a study of the structures and functions of living organisms and their interactions with the environment. Students will use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical, cultural, and scientific significance. They will explore the structure and function of populations, communities, ecosystems, and the biosphere. Students will write short stories, responses to literature, expository and persuasive compositions, research reports, and technical documents. Students will deliver grade-appropriate oral presentations and access, analyze, and evaluate online information that will touch on various careers, personal needs, and societal issues. This is a 2 hour block course in which students will receive credit for English 9 and Biology.

### HONORS ENGLISH 9 – B115

CHS, EHS, NHS 9 1.0 Credit

**Students interested in taking Honors English 9 need to complete an Intent to Apply form found in the middle school counseling office and meet certain qualifications for course entrance. Please see your middle school counselor or current English 8 teacher for additional information**

This course is designed for those students who wish to challenge themselves with a higher level of rigor in the areas of reading and writing. The basic content areas covered include those of the regular English 9 curriculum; however, students will also read and analyze additional texts and write more in-depth responses. The completion of a summer reading assignment is suggested.

## 10<sup>TH</sup> GRADE ENGLISH OFFERINGS

### ENGLISH 10 – B210

CHS, EHS, NHS 10 1.0 Credit

This course fulfills the graduation requirement for English 10 as outlined in the Michigan Merit Curriculum. The American Dream is the overarching focus that students will analyze all year through the lens of various time periods. The thematic and chronological organization creates connections for students with their U.S. History class. Various types of creative, formal, and timed writings will be taught and assessed, including the research process. Reading, writing, communication, standardized vocabulary, and grammar will be emphasized as students mature in their skills of dealing with language.

### ENGLISH 10/US HISTORY BLOCK – B212

CHS, EHS 10 1.0 Cr ELA & 1.0 Cr US Hist

This exciting 2-hour block class brings together American History and American Literature in a cooperative atmosphere that enhances the experience for all students. Thematic units on the Industrial Revolution, Progressive Era, WWI, Roaring 20's and the Great Depression, WWII, the Cold War and American Hegemony are taught through reading, writing, discussion, hands on activities, cinema, simulations and thematic projects. By bringing both American history and American Literature together for two consecutive hours powerful connections between the two can be made and the educational experience is greatly enhanced. Students successfully completing this course will receive 1.0 social studies credit and 1.0 English credit.

### HONORS ENGLISH 10 – B215

CHS, EHS, NHS 10 1.0 Credit

**Students should see their current English 9 or Honors English 9 teacher for information on Honors English 10 qualifications**

This pre-AP class is a rigorous survey of American Literature encompassing works from the Native Americans to contemporary authors. Students will respond to many varied texts employing the skills of research and inquiry as well as literary analysis. The course content will consistently connect with the concepts being taught in US History. Vocabulary and grammar are taught to improve success on standardized college exams. The completion of a summer reading assignment is required.

## 11<sup>TH</sup> GRADE ENGLISH OFFERINGS

### ENGLISH 11 – B310

CHS, EHS, NHS 11 1.0 Credit

This course fulfills the graduation requirement for English 11 as outlined in the Michigan Merit Curriculum. The development of language is the focus throughout the year as the origins of writing and literature are traced from Europe throughout the world. A global perspective is taught, coordinating with the concurrent World History class. Essential to this class is the continual development of students' skills in reading, grammar, vocabulary, writing, and communication.

### ENGLISH 11/WORLD HISTORY BLOCK

– B312

CHS, EHS 10 1.0 Cr ELA & 1.0 Cr Wld Hist

The World History and World Literature (English 11) block provides students with challenges to their thinking and the opportunity to actively learn and study the common themes of these two complementary courses. Thematic units will revolve around historical eras such as Age of Empires, The Renaissance, The Age of Exploration, Revolution, World Wars, and the 21<sup>st</sup> century. Historical units are greatly enhanced by the application and analysis of authors, novels, poetry, and essays found in corresponding and complementary World Literature. Students will engage in critical reading and writing, simulations, cinema analysis, and project-based learning as they examine both World History and World Literature from varying cultural perspectives. This is a two-credit course scheduled for two consecutive hours: Social Studies 1.0 credit, English 1.0 credit.

### AP ENGLISH LANGUAGE AND

### COMPOSITION – B611

CHS, EHS, NHS 11 1.0 Credit

**Summer reading assignments required and due when class begins**

This college-level course teaches students to become skilled readers of informational and fictional texts from a variety of time periods, disciplines and rhetorical contexts. The emphasis is on expository, analytical and argumentative writing, but students will have the opportunity to write reflective and personal essays as well. There is an analytical emphasis on the rhetorical choices made by an author to convey meaning, create voice, tone and style. Vocabulary improvement is a concentrated and continual focus. Students are encouraged to take the AP English Language and Composition Exam in May. A high score may earn the student a semester of credit for freshman English in college. The completion of a summer reading assignment is suggested.

## 12<sup>TH</sup> GRADE ENGLISH OFFERINGS

### SENIOR CLASSICAL LITERATURE – B402

CHS, EHS, NHS 12 .5 Credit

This course explores literature, art, and music from a variety of cultural time periods. Through project-based learning, students will develop an awareness of the influence of the arts on community and the world. Students will examine texts from multiple genres and produce written, aesthetic, and verbal expressions. Students will critically analyze art and literature, making connections across cultures. By studying the leaders of the artistic movements and their impact on society, students will further realize their own potential.

### SENIOR COMPOSITION – B404

CHS, EHS, NHS 12 .5 Credit

This course is for students who wish to refine their writing through the study of a variety of essay styles and revision techniques through expository writing. Critical examination of their writing and the writing of others will be key to the advancement of their writing abilities. A leadership theme will guide the course as students study not only how their own writing evolves and influences others, but also how others' writing directly influences them.

### SENIOR CREATIVE WRITING – B406

CHS, EHS, NHS 12 .5 Credit

This class is for students who sincerely enjoy writing and would like to explore it further in a writing-intensive, workshop-structured setting. They will explore different types of genres through selective readings and class discussions and will take that knowledge into the writing they will produce throughout the semester. Students will be experimenting with writing in specific styles such as prose, short stories, essays, and poetry. This course will help prepare students for the next step of their lives with the understanding of where they fit in the world and how their writing can influence their futures.

### SENIOR CONTEMPORARY LITERATURE – B407

EHS 12 .5 Credit

This course will offer students the opportunity to explore several works of contemporary literature. Students will develop critical skills through interpretation, collaboration, discussion, essay writing, and evaluation of how cultural and historical contexts affect literary content. Participation will be an integral component of this class as well as a rigorous reading schedule. This is not an NCAA approved course.

### SENIOR LITERATURE – B409

CHS, EHS, NHS 12 .5 Credit

This course will deepen students' knowledge of both literature and nonfiction. A leadership focus connects themes of power, hope, courage, change, and truth in multiple genres. Students will respond through essay writing, critical interpretations, and dramatic analyses. Participation and discussion will be an integral component of this learning experience.

### SENIOR READING & WRITING – B410

CHS EHS, NHS 12 .5 Credit

In this course, students will engage in a variety of reading and writing styles. Students will assess these styles and will demonstrate leadership by determining the most appropriate applications of them. Through the evolution of this course, students will make connections between their experiences and their futures in post-secondary and professional worlds.

### WRITING FOR DIGITAL MEDIA – B412

EHS 12 .5 Credit

#### **Prerequisite: Application/Instructor approval**

This project-based class focuses primarily on script writing and production in a variety of electronic formats. From simple messaging to multi-media productions, students will learn the strategies that will equip them to effectively communicate through writing in creative media environments. Working on projects both individually and in collaborative teams, students will develop their writing skills by authoring scripts and adapting literature in a variety of genres. Students will apply their work by producing projects in a variety of media formats intended for specific audiences. Students will learn to give and receive credible criticism by sharing projects on-line. Instruction will focus on developing creativity and innovation, audience analysis, appropriate and ethical use of copyrighted materials, and the critical evaluation of popular media productions. Projects will emphasize script writing, and production limitations. Evaluation will include the student's ability to meet deadlines as well as creativity, organizational skills, reliability and leadership styles.

### SENIOR ENGLISH SEMINAR – B414

CHS, EHS, NHS 12 .5 Credit

This course offers students an opportunity to explore individual talents and skills through the study of interpersonal communication strategies in a face-to-face environment as well as a Web 2.0 interactive world. It will assist students to assume a leadership role in decision making related to their own future directions. Key questions to this study include: Who am I? Where am I going? What will I need to get there? These questions will be explored through literature, film, writing, small group dynamics, projects, presentations, and research. **Please note: Senior English Seminar is not an NCAA approved course.**

### LITERATURE & CINEMA – B532

CHS 12 .5 Credit

This class is a one-semester course designed to analyze the literary devices used in both literature and cinema. Which is better – the book or the movie? Students will read classical and modern literature, comparing and contrasting the written word and the cinema version. The goal in this class is for students to learn how to evaluate plot, characterization, and literary devices while reading and viewing English expression. This class will require consistent attendance as discussions, viewing, assignments, and analysis will all take place in the classroom.

### AP LITERATURE AND COMPOSITION – B612

CHS, EHS, NHS 12 1.0 Credit

In this college level course, students will analyze and interpret text by making careful observations of textual details, establishing connections, and drawing inferences about meaning and value. Students will polish active reading skills with several novels and anthologized selections. Students will write for a variety of purposes employing the skills of analytical reasoning, literary analysis and poetry interpretation. In addition, vocabulary improvement is a concentrated and continual focus. Students are encouraged to take the AP English Literature and Composition Exam in May. A high score may earn them a semester of credit for freshman college English.

**ADDITIONAL ENGLISH ELECTIVES** (these are credits but do not count toward the four English graduation credits required.)

### YEARBOOK – B510

CHS, EHS, NHS 11, 12 1.0 Credit

#### **Prerequisite: Application and instructor approval**

Students will learn to use desktop publishing to produce the annual school yearbook. Aspects such as theme and content development, layout and page design, feature writing, proofreading, editing, photography, and time management will be covered. Each student will be encouraged to sell a specific number of advertisements to help fund the yearbook. Students are expected to attend extra-curricular events.

## **WRITING FOR PUBLICATION – B520**

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

This course serves as an introduction to all aspects of newspaper journalism. Students will learn about reporting, feature writing, copyediting, layout, design, and distribution. The focus of the class will be writing in journalistic style for news, feature, editorial, sports, and arts and entertainment. Students will be expected to write extensively and will be required to meet deadlines. Students will be expected to sell advertising to help pay for the newspaper's publishing costs, meet deadlines, accept constructive criticism and work with, for, and under the direction of other students. Please note: This class is not an NCAA approved course.

## **ADVANCED WRITING FOR PUBLICATION - B525**

CHS, EHS, NHS 10, 11, 12 NH-.5; CH & EH-1.0 Credit

**Prerequisite: Successful completion of Journalism, application, writing sample, and letter of recommendation required**

Members of this challenging and fast-paced course create the school newspaper, utilizing reporting, writing, editing, photography, layout, and design skills to create a top-notch publication. The class is organized into editors and writers and relies heavily on group work, self-motivation, and self-discipline. Students will be expected to sell advertising to help pay for the newspaper's publishing costs, meet deadlines, accept constructive criticism, and work with, for, and under the direction of other students.

## **ENGLISH LEARNERS (EL) – B800**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

**Prerequisite: English Learner students with teacher recommendation required**

Oral and written communications are taught as well as reading, listening, and pronunciation skills. Spelling, punctuation, grammar, vocabulary, basic sentence structure, paragraph organization, and essay skills are developed. An introduction to literature is given through poetry, short story, and drama. American culture is emphasized through readings, discussions, and current events. Study skills and support for other classes are also included.



# LIFE MANAGEMENT EDUCATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQ	PREREQUISITE
K100	Introduction to Culinary Arts	.50	9, 10, 11, 12	NH	VPAA	
K105	Advanced Culinary Arts	.50	9, 10, 11, 12	NH	VPAA	Introduction to Culinary Arts
K120	Interior Design	.50	9, 10, 11, 12	NH	VPAA	
K125	Advanced Interior Design	.50	9, 10, 11, 12	NH	VPAA	Interior Design
K210	Child Development & Parenting	.50	10, 11, 12	NH	VPAA	
K215	Advanced Child Development & Parenting	.50	11, 12	NH	VPAA	Child Development & Parenting

**VPAA** – Meets the Visual, Performing & Applied Arts Requirement based on the Michigan Merit Curriculum.

## **INTRODUCTION TO CULINARY ARTS –**

**K100**

NHS 9, 10, 11, 12 .5 Credit

Culinary principles will be introduced enabling students to explore and expand their culinary creations. Students will learn the basic principles of food and nutrition and how to prepare and cook food through lab experiences. The class will also help students understand the effect of certain foods on the body. Students will have the opportunity to demonstrate and to enjoy foods from other countries around the world. **Basic materials are supplied. Individual projects may incur additional costs.**

## **ADVANCED CULINARY – K105**

NHS 9, 10, 11, 12 .5 Credit

### **Prerequisite: Introduction to Culinary Arts**

This course is designed for students desiring a deeper knowledge of how food affects all aspects of different environments: personal interest, culinary careers, entertainment, and cultural influences. Study areas will include entertainment, garnishing, multi-cultural foods, and careers, providing an excellent base to secure jobs, or pursue further training and degrees in the food industry. **Basic materials are supplied. Individual projects may incur additional costs.**

## **INTERIOR DESIGN – K120**

NHS 9, 10, 11, 12 .5 Credit

Students interested in art or interior design careers will learn principles of color, line, and design as well as ergonomics. Students engage in hands on learning by textbook application and design projects. Guest speakers and video presentations are also included. Students also will learn about careers in the design field.

**Basic materials are supplied. Individual projects may incur additional costs.**

## **ADVANCED INTERIOR DESIGN – K125**

NHS 9, 10, 11, 12 .5 Credit

### **Prerequisite: Interior Design**

Students will study Interior Design at a more advanced level using principles learned in Interior Design (K-120). Students will experience hands on learning creating design projects. This class is recommended for students interested in art and/or a career in Interior Design – **Industrial projects may incur additional costs.**

## **CHILD DEVELOPMENT & PARENTING –**

**K210**

NHS 10, 11, 12 .5 Credit

This course studies children from birth to age five. Students will learn physical and mental development patterns of children, as well as positive parenting skills. They also will have the option of experiencing the responsibility of parenthood by assuming care of a life-like simulation “Baby.” This class is articulated with GRCC. Successful completion of Child Development & Parenting will result in college credit at GRCC.

## **ADVANCED CHILD DEVELOPMENT & PARENTING – K215**

NHS 11, 12 .5 Credit

### **Prerequisite: Child Development and Parenting**

Students will experience a more advanced level of Child Development. The class will focus on physical, emotional, social, and intellectual development of children through age twelve. Special needs and challenges will also be covered. There will be opportunities for hands-on learning in related projects. **Individual projects may incur additional costs.**

# MATHEMATICS DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
E100	Pre-Algebra	1.00	9	NH		Teacher recommendation
EC100	Algebra/Geometry 1	1.00	9	CH	.5 Alg/.5 Geo	Teacher recommendation
E110	Algebra 1	1.00	9, 10, 11, 12	CH, EH, NH	Algebra 1	
E150	Accelerated Alg/Geo	2.00	9	NH	Alg 1 & Geom	Teacher recommendation
E200	Algebra/Geometry 2	1.00	10	CH	.5 Alg/.5 Geo	Teacher recommendation
E210	Geometry	1.00	9, 10, 11, 12	CH, EH, NH	Geometry	Successful completion of Algebra 1
E300	Concepts of Algebra 2	1.00	11, 12	CH, EH, NH	Algebra 2	Teacher recommendation - C or lower in Algebra 1
E310	Algebra 2	1.00	10, 11, 12	CH, EH, NH	Algebra 2	C or better in Algebra 1 & Geometry recommended
E400	Concepts of Algebra 3	1.00	12	CH, EH	4 <sup>th</sup> yr Math	Teacher recommendation - Concepts of Algebra 2
E405	Algebra 3	1.00	12	NH	4 <sup>th</sup> yr Math	Successful completion of Concepts Algebra 2 or Algebra 2+
E410	College Algebra	1.00	12	CH, EH, NH	4 <sup>th</sup> yr Math	Teacher Recommendation
E415	Precalculus	1.00	11, 12	CH, EH, NH	4 <sup>th</sup> yr Math	Algebra 2
E600	AP Calculus AB	1.00	11, 12	EH, NH	4 <sup>th</sup> yr Math	Precalculus
E610	AP Calculus BC	1.00	11, 12	CH, EH, NH	4 <sup>th</sup> yr Math	Precalculus
E620	AP Statistics	1.00	11, 12	CH, EH, NH	4 <sup>th</sup> yr Math	Precalculus or Algebra 2 with Teacher Recommendation
M250	Gone Boarding	1.0	10, 11, 12	CH, EH, NH	VPAA. Phys Ed, or 4 <sup>th</sup> yr Math	

**.5 Alg/.5 Geo** – Meets .5 of the Algebra I and .5 of the Geometry Requirement based on the Michigan Merit Curriculum

**Algebra 1** – Meets the Algebra 1 Requirement based on the Michigan Merit Curriculum

**Geometry** – Meets the Geometry Requirement based on the Michigan Merit Curriculum

**Algebra 2** – Meets the Algebra 2 Requirement based on the Michigan Merit Curriculum

**4th Year Math** – Meets the Senior Math Requirement based on the Michigan Merit Curriculum if taken during senior year

## PRE-ALGEBRA – E100

NHS 9 1.0 Credit

### Prerequisite: Teacher recommendation

This course is a link between Middle School math and Algebra for those students who need additional preparation for Algebra. The student will be exposed to hands-on and supplemental materials designed to develop algebraic concepts. After successful completion of this course, the student will be ready to enter Algebra the following year.

## ALGEBRA/GEOMETRY 1 – EC100

CHS 9 1.0 Credit

### Prerequisite: Teacher recommendation

This is the first year of a **two-year** course, which fulfills the graduation requirements for Algebra 1 and Geometry as outlined in the Michigan Merit Curriculum. Students will study linear, quadratic, exponential, and logarithmic functions along with right triangle trigonometry, transformations geometry measurement formulas, and 3-dimensional figures in an integrated approach to

mastering content expectations for Algebra and Geometry. Students must complete Algebra/Geometry 1 and Algebra/Geometry 2 to meet the graduation requirements under the Michigan Merit Curriculum (MMC). A scientific calculator is recommended for this course.

### ALGEBRA 1 – E110

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

This course fulfills the graduation requirement for Algebra as outlined in the Michigan Merit Curriculum. Students will study linear, quadratic, and exponential functions and their applications. Methods for solving equations, inequalities, and systems will be emphasized. A scientific calculator is recommended for this course.

### ACCELERATED ALG/GEOMETRY – E150

NHS 9 2.0 Credit

#### **Prerequisite: Teacher recommendation**

This class is for students that excel in math. The course is a very fast-paced course where students are exposed to all of the High School Content Expectations for both Algebra 1 and Geometry in one year. Students signing up for this course should have very strong math scores in both the Explore test and MEAP test from middle school. Students should also have a love for math and a very strong work ethic.

### ALGEBRA/GEOMETRY 2 – E205

CHS 10 1.0 Credit

#### **Prerequisite: Teacher recommendation**

This is the second year of a **two-year** course, which fulfills the graduation requirements for Algebra 1 and Geometry as outlined in the Michigan Merit Curriculum. Students will study linear, quadratic, exponential, and logarithmic functions along with right triangle trigonometry, transformations geometry measurement formulas, and 3-dimensional figures in an integrated approach to mastering content expectations for Algebra and Geometry. Students must complete Algebra/Geometry I and Algebra/Geometry 2 to meet the graduation requirements under the Michigan Merit Curriculum (MMC). A scientific calculator is recommended for this course.

### GEOMETRY– E210

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

#### **Prerequisite: Successful completion of Algebra 1**

This course fulfills the graduation requirement for Geometry as outlined in the Michigan Merit Curriculum. Students will develop skills in logic and proof, study right triangle trigonometry, and expand their knowledge of transformations, coordinate geometry, measurement formulas, and 3-dimensional figures. A scientific calculator is recommended for this course.

### CONCEPTS OF ALGEBRA 2 – E300

CHS, EHS, NHS 11, 12 1.0 Credit

#### **Prerequisite: Completion of Algebra 1 and Geometry with a C or below and teacher recommendation**

This course will meet the minimum state requirements for earning Algebra 2 credit. However, this course is not recommended for college-bound students who will major or minor in a subject requiring a strong background in mathematics. A graphing calculator is recommended for this course.

### ALGEBRA 2 – E310

CHS, EHS, NHS 10, 11, 12 1.0 Credit

#### **Prerequisite: C or better in Algebra 1 and Geometry recommended**

This course fulfills the graduation requirement for Algebra 2 as outlined in the Michigan Merit Curriculum. This course emphasizes facility with algebraic expressions and forms, both with and without a calculator. Students will study linear, exponential, logarithmic, trigonometric, polynomial, and other special functions for their abstract properties and as tools in modeling real world situations. A graphing calculator is recommended for this course.

### CONCEPTS OF ALGEBRA 3 – E400

CHS, EHS 12 1.0 Credit

#### **Prerequisite: Completion of Concepts of Algebra 2 and teacher recommendation**

This course will follow the algebra topics covered in Concepts of Algebra 2, and will reinforce and extend the knowledge for students. This class is NOT open to students that took regular Algebra 2. This course will help prepare students to take a beginning college algebra course upon entering college. A graphing calculator is recommended for this course.

### ALGEBRA 3 – E405

NHS 12 1.0 Credit

#### **Prerequisite: Completion of Concepts of Algebra 2 or Algebra 2 and teacher recommendation**

This course is for 12<sup>th</sup> grade students who want to continue in math but may find difficulty with the pace and level of College Algebra. Designed to reinforce Algebra 2 topics and introduce College Algebra topics, this course will help prepare students for their math experience in college. Students who completed Concepts of Algebra 2 with a C or better and those who struggled in regular Algebra 2 are encouraged to take this course. Algebra 3 is not recommended for college-bound students who will major or minor in a subject requiring a strong background in mathematics. A graphing calculator is recommended for this course.

**COLLEGE ALGEBRA – E410**

CHS, EHS, NHS 12 1.0 Credit

**Prerequisite: Teacher Recommendation**

This course is intended for seniors planning to attend college but are not planning to study in a math-related field. Students will strengthen their knowledge and understanding of algebra and trigonometry through graphic, numeric, and symbolic methods, and with emphasis on applications and problem solving. The course covers the algebraic topics needed to satisfy the minimum graduation requirements for math at many colleges. College Algebra is not recommended for college-bound students who will major or minor in a subject requiring a strong background in mathematics. A graphing calculator is recommended for this course.

**PRECALCULUS – E415**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Algebra 2**

This course introduces students to polar and parametric functions, vectors, conic sections, and logistic modeling. Linear, exponential, logarithmic, trigonometric, and polynomial functions, as well as matrices will also be studied in depth. A graphing calculator is recommended for this course.

**AP CALCULUS AB – E600**

EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Precalculus**

Calculus AB is a college level course that includes the topics and applications of calculus traditionally taught in one semester of college calculus. This course requires extensive work by the student. Students are encouraged to take the AP Calculus AB test in May, for which a passing grade can earn the student **one** semester of college credit. Students are encouraged to choose between AP Calculus AB or AP Calculus BC based on their post-secondary plans and career goals; students may not receive high school credit for both classes. A graphing calculator is recommended.

**AP CALCULUS BC – E610**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Precalculus**

Calculus BC is a college level course that includes the topics and applications of calculus traditionally taught in one full year of college calculus. This course requires extensive work by the student. Students are encouraged to take the AP Calculus BC test in May, for which a passing grade can earn the student two semesters of college credit. Students are encouraged to choose between AP Calculus AB or AP Calculus BC based on their post-secondary plans and career goals; students may not receive high school credit for both classes. A graphing calculator is recommended.

**AP STATISTICS – E-620**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Precalculus or Algebra 2 with Teacher Recommendation**

AP Statistics is a college-level course that introduces students to the concepts and tools used to collect, analyze and draw conclusions from data. This course requires extensive work by the student. Students are encouraged to take the AP Statistics exam in May for which a passing grade can earn one semester of college credit. A graphing calculator is recommended. This course is traditionally a one-semester college course. It may also be taken concurrently with another math course.

**GONE BOARDING – M250**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

This cross-curricular class (Physical Education, Mathematics, and VPAA – choose 2) will run as a 2-hour block with a portion of the time spent collaboratively designing and producing a snowboard, long-board, and surfboard/stand up paddleboard. Students will use mathematical practices for college and career readiness during this process. The other portion will engage students in learning and developing the physical skills involved in snowboarding, long-boarding, and surfing/stand up paddling. Through this course, students will participate in the product development process as well as develop an approach to lifelong wellness.

## **4<sup>th</sup>-year Math-Related Courses** (For purposes of satisfying the Michigan Merit Curriculum)

C660 AP Macroeconomics (.5 credit EHS, NHS)

C665 AP Microeconomics (.5 credit EHS, NHS)

A math-related science course taken in the senior year qualifies as a 4<sup>th</sup>-year math-related course if taken after the MMC Science requirement has been fulfilled.

D215 Chemistry (1.0 credit)

D225 Physics (1.0 credit)

D620 AP Chemistry (1.0 credit)

D640 AP Physics 1 (1.0 credit, NHS)

D642 AP Physics 2 (1.0 credit, NHS for 2015-2016 school year)

D645 AP Physics C: Mechanics (1.0 credit, CHS, EHS)

G140 Accounting (.5 – 1.0 credit)

G145 Accounting 2 (1.0 credit)

G170 Personal Finance (.5 – 1.0 credit)

G210 Marketing 1 (.5 credit)

G215 Marketing 2 (.5 credit)

G220 Advanced Marketing (1.0 credit)

G520 Computer Science Programming (.5 credit)

G540 Computer Graphics/Game Design (.5 credit, EHS only)

G620 AP Computer Science (1.0 credit, CHS, NHS)

I120 Architectural Rendering and Design (.5 credit)

I125 Advanced Architecture (1.0 credit)

I130 Engineering Graphics 1 (.5 credit)

I132 Engineering Graphics 2 (1.0 credit)

I133 Engineering Graphics 3 (1.0 credit)

I500 Robotics (.5 credit)

M250 Gone Boarding (1.0 credit)

College courses, independent studies, or cooperative employment experiences that include math-related elements (to be approved by the district)

**FHPS Course Description Guide (p. 62) shows math credit that can be earned through KCTC Business Technology, Marketing, and Information Technology courses.**

# MUSIC DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
<b>CHOIR</b>						
J210	Concert Choir	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	
J220	Women's Chorus	1.00	10, 11, 12	CH, NH	VPAA	Successful completion of Concert Choir and audition
J230	Chorale	1.00	10, 11, 12	CH, EH, NH	VPAA	Audition
J240	Central, Eastern, or Northern Singers	1.00	10, 11, 12	CH, EH, NH	VPAA	Audition & concurrent membership in another vocal ensemble
<b>ORCHESTRA</b>						
J310	Concert Orchestra	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	Completion of 8th grade orchestra or by audition for new students
J320	Symphony Orchestra	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	Audition
<b>BAND</b>						
J110	Concert Band	1.00	9, 10, 11, 12	CH	VPAA	Completion of 8th grade band or by audition for new students
J120	Symphonic Band	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	Audition
J130	Wind Ensemble	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	Audition
<b>JAZZ AND OTHER ENSEMBLES AND COURSES</b>						
J112	Jazz Lab/Jazz Ensemble	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	Audition & concurrent membership in another instrumental ensemble
J122	Jazz Ensemble 2	1.00	10, 11, 12	CH	VPAA	Completion of Jazz Lab/Jazz Ensemble, audition & concurrent membership in another instrumental ensemble
J132	Advanced Jazz Ensemble	1.00	10, 11, 12	CH	VPAA	Completion of Jazz Ensemble 2, Audition & concurrent membership in another instrumental ensemble
J410	Percussion Ensemble/Steel Band	1.00	9, 10, 11, 12	CH	VPAA	Audition & concurrent membership in another instrumental ensemble

**VPAA** – Meets the Visual, Performing & Applied Arts Requirement based on the Michigan Merit Curriculum.

<p><b>CHOIR</b></p> <p><b>CONCERT CHOIR – J210</b> CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit</p> <p>This course is open to any student interested in singing and is a prerequisite for all other vocal ensembles. Students focus on learning correct choral techniques, i.e., tone production, ear training, music sight-reading, etc. Music history and theory are studied through a wide variety of music, including sacred, classical, and jazz. Choir students will perform at school concerts and additional outside performances; attendance is required.</p>	<p><b>WOMEN'S CHORUS – J220</b> CHS, NHS 10, 11, 12 1.0 Credit</p> <p><b>Prerequisite: Successful completion of Concert Choir and audition</b></p> <p>Students are taught the fundamentals of breathing and producing tone, sight-reading music, music theory, and how to blend in a group of similar vocal ranges. A wide variety of literature is studied and performed, from the Renaissance through the twentieth century, including jazz, sacred, and secular music from the great choral traditions. Emphasis is placed on the unique challenges inherent in treble vocal music. Students will perform at school concerts and additional outside performances; attendance is required.</p>
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**CHORALE – J230**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

**Prerequisite: Audition**

This is a mixed choir of advanced musicians who study music history, theory, and more difficult music from the great choral tradition, as well as spirituals and vocal jazz. In addition to the spring, fall, and winter concerts, the Chorale performs for festivals, and commencement; attendance is required.

**CENTRAL, EASTERN, OR NORTHERN SINGERS – J240**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

**Prerequisite: Audition and concurrent membership in another vocal ensemble**

This small choral ensemble is open to only the most advanced vocal students. Members are expected to be proficient sight-readers, mature, motivated, and able to carry their own part. This ensemble will explore the tradition of vocal jazz in depth. A 'Capella and accompanied music will be studied and performed, with an emphasis on musical excellence and professionalism. In addition, jazz forms will be studied and students will be exposed in detail to great jazz performers of the past and present. Students will perform at school concerts and additional outside performances; attendance is required.

**ORCHESTRA****CONCERT ORCHESTRA – J310**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

**Prerequisite: Completion of 8th grade orchestra or by audition for new students**

Primarily a string orchestra with some full orchestra experience, this course is intended to enhance individualized instruction. Emphasize will include musicianship, listening and performance skills, theory, the study of two octave major and minor scales, and performing music which contains shifting, advanced bowing techniques, and vibrato. Attendance is required at concert performances, which include school programs and orchestra festivals.

**SYMPHONY ORCHESTRA – J320**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

**Prerequisite: Audition**

This course is for advanced string players who are ready for more difficult literature, both string and full orchestra. In addition to playing a wide variety of difficult literature from differing periods, music history and theory are studied. Attendance is required at performances, which include school concerts and festivals. This group is also invited to perform for many organizations throughout the year both during and outside the school day.

**BAND****CONCERT BAND – J110**

CHS 9, 10, 11, 12 1.0 Credit

**Prerequisite: Completion of 8th grade band or by audition for new students**

This course focuses on developing individual performance proficiency and strengthening overall musicianship skills including knowledge of music theory and its application to playing; performance of literature suited to the ability of the group; and listening and creative thinking activities, including musical composition. Included in Concert Band is membership in the high-energy Marching Band during the varsity football season. Attendance is required at performances, which include school concerts, athletic events, and festivals. Students are encouraged to participate in chamber music ensembles to solidify musicianship skills during the appropriate season.

**SYMPHONIC BAND – J120**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

**Prerequisite: Audition**

This is a performance-based group for the advanced instrumentalist with emphasis on aesthetic education through strengthening of individual musicianship and performance skills; knowledge of music theory and its application to playing; performing a wide variety of literature including marches, popular music, orchestral transcriptions and works conceived for wind band; and listening and creative thinking activities. Students are encouraged to participate in chamber music ensembles to solidify musicianship skills during the appropriate season. Included in Symphonic Band is membership in the high-energy Marching Band during the varsity football season. Attendance is required for performances at concerts, athletic events, District Festival, and various other school functions.

**WIND ENSEMBLE – J130**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

**Prerequisite: Audition**

This performance-based ensemble will focus on studies of various forms of music literature, including marches, popular music, orchestral transcriptions, works conceived for wind band and music theory, history, and music listening. Included in Wind Ensemble is membership in the high-energy Marching Band during the varsity football season. Through audition and director placement, players may elect participation in Symphonic Orchestra. Participation in chamber music ensembles and solo performance occurs during the appropriate season.



## JAZZ, OTHER ENSEMBLES AND COURSES

### JAZZ LAB/JAZZ ENSEMBLE – J112

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

**Prerequisite: Audition and concurrent membership in another instrumental ensemble**

This course emphasizes aesthetic education through improvisation and performance of suitable literature; harmonic, rhythmic and structural complexities of jazz, jazz history, and solo transcriptions. Attendance is required at all curricular and extra-curricular events including several jazz festivals from January to March of each year.

### JAZZ ENSEMBLE 2 – J122

CHS 10, 11, 12 1.0 Credit

**Prerequisite: Completion of Jazz Lab, audition and concurrent membership in another instrumental ensemble**

This course is for intermediate instrumentalists interested in the study and performance of the jazz idiom. Major emphasis will be on proper tone, technique, improvisation, interpretation, and listening skills needed for excellent jazz performance. Attendance is required for performances at fall, holiday, and spring concerts, school assemblies, jazz festivals, and occasional sporting events.

### ADVANCED JAZZ ENSEMBLE – J132

CHS 10, 11, 12 1.0 Credit

**Prerequisite: Completion of Jazz Ensemble 2, audition and concurrent membership in another instrumental ensemble**

This is a performance-based group for the advanced jazz instrumentalist. Emphasis is on aesthetic education through improvisation and performance of suitable literature; harmonic, rhythmic and structural complexities of jazz, jazz history, and solo transcriptions. This ensemble will participate in several jazz festivals from January to March of each year. Attendance is required at all curricular and extra-curricular events.

## PERCUSSION ENSEMBLE/STEEL BAND –

J410

CHS 9, 10, 11, 12 1.0 Credit

**Prerequisite: Audition and concurrent membership in another instrumental ensemble**

This course focuses on developing individual performance proficiency and overall musicianship and is open to all students with a serious interest in becoming well versed in percussion. Emphasis is aesthetic education through strengthening of individual musicianship and performance skills, knowledge of music theory and its application to playing, performance of literature suited to the ability of the group, and listening and creative thinking activities including musical composition. Included in Percussion Ensemble is membership in the high-energy Marching Band during the varsity football season. This ensemble has several curricular and extra-curricular performances throughout the year where attendance is required.

# PHYSICAL EDUCATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
<b>Physical Education Courses that fulfill MMC Graduation Requirements</b>						
M100	Fitness for Life 1	.50	9, 10	CH, EH, NH	Phys Ed	
M300	Fitness Activities	.50	11, 12	CH, EH, NH	Phys Ed	
M230	Strength & Conditioning 1	.50	9, 10, 11, 12	CH, EH, NH	Phys Ed	
M200	Health	.50	9, 10, 11, 12	CH, EH, NH	Health	
<b>Elective Physical Education Courses</b>						
M110	Fitness for Life 2	.50	9	CH, NH		Fit for Life 1 or Strength & Cond (CH)
M220	Lifetime/Team Sports	.50	10, 11, 12	CH, EH, NH		Fit for Life 1 (CH & EH)
M235	Strength & Conditioning 2	.50	10, 11, 12	CH, EH, NH		Strength & Cond 1
M250	Gone Boarding	1.00	10, 11, 12	CH, EH, NH	VPAA. Phys Ed, or 4 <sup>th</sup> yr Math	
M260	Yoga 1	.50	10, 11, 12	CH, EH		Fit for Life 1 or Strength & Cond
M265	Yoga 2/Pilates	.50	10, 11, 12	CH		Yoga 1
M270	Movement Fitness	.50	10, 11, 12	NH		
M280	Global Games	.50	10, 11, 12	CH, EH, NH		Fit for Life 1 or Strength & Cond (CH & EH)

**Health** – Meets the Health Requirement based on the Michigan Merit Curriculum.

**Phys Ed** – Meets the Physical Education Requirement based on the Michigan Merit Curriculum.

**VPAA** – Meets the VPAA Requirement based on the Michigan Merit Curriculum.

## REQUIRED PHYSICAL EDUCATION COURSES

### **FITNESS FOR LIFE 1 - M100**

CHS, EHS, NHS 9, 10 .5 Credit

Students will enjoy daily physical activity while learning lifetime fitness skills; a variety of individual and team sport activities such as flag football, volleyball, pickle ball, racket sports; information to become their own personal trainer; and fun ways to take a break and reduce stress.

### **FITNESS ACTIVITIES - M300**

CHS, EHS, NHS 11, 12 .5 Credit

Students will utilize fitness activities and nutritional components to make healthy lifestyle choices as they enter adulthood. Students will participate in daily exercise and chart heart rates and nutritional choices to analyze their overall fitness and well-being. This course is for upperclassmen who have not fulfilled their physical education requirement.

### **STRENGTH AND CONDITIONING 1 – M230**

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

This course focuses primarily on a structured routine of weight training, stretching, and plyometrics while teaching students the proper form, discipline, and intensity of workouts necessary to improve their level of physical fitness. Individual programs will be offered to accommodate students of various abilities and interest levels within the same class.

### **HEALTH – M200**

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

Students will explore principles of wellness including: emotional, social and physical well-being; goal setting for success; positive stress management skills; decision-making techniques for positive lifestyle choices; first aid; safety in disease prevention; and the importance of healthy relationships.

## ELECTIVE PHYSICAL EDUCATION COURSES

### FITNESS FOR LIFE 2 – M110

CHS, NHS 9 .5 Credit

**Prerequisite: Fitness for Life 1 or Strength & Conditioning 1 (CHS only)**

This is a second semester course for 9th grade students. It is designed for the student who enjoys physical activity as a break in their strenuous school day. Students will participate in a wide variety of activities such as: team handball, eclipse ball, pickle ball, table tennis, badminton, floor hockey, speedball, Ultimate Frisbee, and tennis.

### LIFETIME/TEAM SPORTS – M220

CHS, EHS, NHS 10, 11, 12 .5 Credit

**Prerequisite: Fitness for Life 1 or Strength & Conditioning 1 (CHS & EHS only)**

Students will learn a variety of lifetime activities and team sports. Activities include football, basketball, softball, volleyball, floor hockey, Ultimate Frisbee, badminton, tennis, table tennis, and pickle ball. This course may be taken for a maximum of two semesters (1.0 credit).

### STRENGTH AND CONDITIONING 2 – M235

CHS, EHS, NHS 10, 11, 12 .5 Credit

**Prerequisite: Strength & Conditioning 1**

Strength and Conditioning 2 is an intense strength class for students interested in furthering their knowledge of proper conditioning activities/programs.

### GONE BOARDING – M250

CHS, EHS, NHS 10, 11, 12 1.0 Credit

This cross-curricular class (Physical Education, Mathematics, and VPAA – choose 2) will run as a 2-hour block with a portion of the time spent collaboratively designing and producing a snowboard, long-board, and surfboard/stand up paddleboard. Students will use mathematical practices for college and career readiness during this process. The other portion will engage students in learning and developing the physical skills involved in snowboarding, long-boarding, and surfing/stand up paddling. Through this course, students will participate in the product development process as well as develop an approach to lifelong wellness.

### YOGA 1 – M260

CHS, EHS 10, 11, 12 .5 Credit

**Prerequisite: Fitness for Life 1 or Strength & Conditioning 1**

Yoga is a non-competitive exercise form that focuses on increasing flexibility, balance, strength, and 40% improved posture through a series of gentle “poses” called “asanas.” It is also a great way to reduce the negative effects of stress and to increase mental alertness. Yoga classes are generally conducted in a quiet, focused atmosphere. Fitness walking will be included in this class when weather permits. If you enjoy exercising in a quiet, gentle way, this class is for you. This course may be taken for a maximum of two semesters (1.0 credit).

### YOGA 2/PILATES – M265

CHS 10, 11, 12 .5 Credit

**Prerequisite: Yoga 1**

This class offers “vinyasa-style” yoga sessions (a series of poses that flow one into the other) to increase flexibility, muscle tone and strength, aerobic capacity, balance, and mental alertness. Classes in Pilates mat work, and classes with “therapy ball” exercises will emphasize strengthening core muscle groups. Weather permitting; fitness walking will also be included. This course may be taken for a maximum of two semesters (1.0 credit).

### MOVEMENT FITNESS – M270

NHS 10, 11, 12 .5 Credit

This class features a variety of activities that focus on stretching, lightweight training techniques and techniques to improve relaxation while participating in fitness activities. Find out for yourself how to prepare for activity, prevent injury, and rehabilitate those injuries that do occur. Exercise regimes will be designed to increase your knowledge and understanding of the importance of core strength and flexibility. Endurance and movement activities may include aerobics, yoga, Tae Bo, Tai Chi, Pilates, biking, walking, and running. Related skill components such as agility, balance, reaction time, and proprioception will be addressed.

### GLOBAL GAMES – M280

CHS, EHS, NHS 10, 11, 12 .5 Credit

**Prerequisite: Fitness for Life 1 or Strength & Conditioning 1 (CHS & EHS only)**

This class is for open-minded, creative students who enjoy trying new things! Games and activities from around the world are included in a friendly, co-educational atmosphere. Some of the activities may include field hockey, lacrosse, cricket, team handball, sepak takraw, bocce, table tennis, kinball, doubleball, and broomball. Nordic skiing/snowshoeing may be included, weather permitting. This course may be taken for a maximum of two semesters (1.0 credit).

# SCIENCE DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
D110	Biology	1.00	9, 10, 11, 12	CH, EH, NH	Biology	
D112	Biology/Literature Block	2.00	9	EH, NH	Biology/ELA	
D115	Honors Biology	1.00	9	CH, EH, NH	Biology	Selection process
D210	Chemistry	1.00	10, 11, 12	CH, EH, NH	Chem/Physic	Successful completion of Biology
D215	Chemistry	1.00	10, 11, 12	CH, EH, NH	Chem/Physic	Algebra 1 completed or concurrent, and completion of Biology
D220	Physics	1.00	10, 11, 12	CH, EH, NH	Chem/Physic	Successful completion of Algebra 1 and Biology strongly recommended
D225	Physics	1.00	10, 11, 12	CH, EH, NH	Chem/Physic	Algebra 2 completed or concurrent, and successful completion of Biology strongly recommended
<b>ELECTIVES</b>						
D105	Environmental Impacts	1.00	9, 10	CH, EH, NH	Sci Elective	
D415	Advanced Geology	1.00	11,12	CH	Sci Elective	Successful completion of Biology required; Chem 215 recommended
D420	Human Anatomy & Physiology	1.00	10, 11, 12	CH, EH, NH	Sci Elective	Successful completion of Biology and Chemistry
D510	Forensic Science	.50/sm 1.0/yr	10, 11, 12	CH, EH, NH	Sci Elective	Successful completion of Biology
D530	Environmental Science	.50	11, 12	CH, EH, NH	Sci Elective	Successful completion of Environmental Impacts or Biology
D551	Intro to Scientific Research	1.00	10	CH, EH	Sci Elective	Successful completion of Biology, application and instructor approval
D552	Scientific Research in Practice	.50/sm 1.0/yr	11	CH	Sci Elective	Intro to Scientific Research
D553	Independent Scientific Research Study	1.00	12	CH	Sci Elective	Scientific Research in Practice
D610	AP Biology	2.00	11, 12	CH, EH, NH	Sci Elective	Successful completion of Biology required and Chem 215 recommended
D620	AP Chemistry	2.00	11, 12	CH, EH, NH	Sci Elective	Algebra 2 completed or concurrent, and successful completion of Chem 215 strongly recommended
D630	AP Environmental Science	1.00	11, 12	CH, EH, NH	Sci Elective	Chemistry 215
D640	AP Physics 1	1.00	10, 11, 12	NH	Sci Elective	Successful completion of Chemistry and Algebra 2
D642	AP Physics 2	1.00	11, 12	NH	Sci Elective	Successful completion of AP Physics 1
D645	AP Physics C: Mechanics	1.00	11, 12	CH, EH	4 <sup>th</sup> yr Math or Sci Elective	AP Calculus completed or concurrent

**Biology** – Meets the Biology requirement based on the Michigan Merit Curriculum

**Chem/Physics** – Meets the Chem/Physics requirement based on the Michigan Merit Curriculum

**Sci Elective** – Meets the Science Elective requirement based on the Michigan Merit Curriculum

<p><b>ENVIRONMENTAL IMPACTS – D105</b>            CHS, EHS, NHS      9, 10      1.0 Credit            Students will focus on natural and man-made disasters that impact the environment, utilizing relevant case studies. Through the study of environmental science students will understand complex interactions between humans and their environments. Students will seek answers to such questions as: How can we balance our own needs and</p>	<p>interests with the health of the environment?            How does the environment influence how and where we can live? How can we use Earth's finite resources sustainably? The lessons students learn today will define our environment tomorrow. Study emphasis will be on relationships that exist between biology, chemistry, earth and physical sciences and the impact humans have on their environment, and the environment on humans.</p>
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**BIOLOGY – D110**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

Biology is a study of the living world. In this course, an introduction to biochemistry and cellular structure/activity leads to learning the essential and core concepts related to such topics as DNA, genetics, heredity, and the diversity of life.

**BIOLOGY/LITERATURE BLOCK – D112**

EHS, NHS 9 1.0 Cr Biology &amp; 1.0 Cr ELA

The Biology/Literature Block is a project-based, collaborative course based on laboratory investigations and a study of language, literature, composition, and oral communication with a focus on exploring a wide-variety of genres and their elements. This will include a study of the structures and functions of living organisms and their interactions with the environment. Students will use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical, cultural, and scientific significance. They will explore the structure and function of populations, communities, ecosystems, and the biosphere. Students will write short stories, responses to literature, expository and persuasive compositions, research reports, and technical documents. Students will deliver grade-appropriate oral presentations and access, analyze, and evaluate online information that will touch on various careers, personal needs, and societal issues. This is a 2-hour block course in which students will receive credit for English 9 and Biology.

**HONORS BIOLOGY – D115**

CHS, EHS, NHS 9 1.0 Credit

**Students interested in taking Honors Biology need to complete an Intent to Apply form found in the counseling office and meet certain qualifications for course entrance. Please see your Middle school counselor or current (8th grade) science teacher for additional information**

Honors biology provides an opportunity for students who are deeply interested in the life sciences to pursue biological topics in-depth. Course work will be challenging and rigorous and will include content expectations beyond those required for state credit.

**CHEMISTRY – D210**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

**Prerequisite: Successful completion of Biology**

This course provides a conceptually based exposure to the fundamental principles and laws of chemistry. Topics include forms of energy, energy transfer and conservation, properties of matter, and changes in matter. Emphasis is placed on comprehension before computation. Upon completion, students should be able to demonstrate a basic understanding of chemistry and how it relates to other fields. This course meets the requirements of the Michigan Merit Curriculum and is recommended for students who do not intend to enter scientific or mathematical fields such as medicine or engineering.

**CHEMISTRY – D215**

CHS, EHS, NHS 10,11, 12 1.0 Credit

**Prerequisite: Algebra 1 completed or concurrent, and successful completion of Biology**

This course provides an analytically based exposure to the fundamental principles and laws of chemistry. Topics include forms of energy, energy transfer and conservation, properties of matter, and changes in matter. Mathematical applications will be required. Students should have completed or be concurrently enrolled in Algebra I. This course meets the requirements of the Michigan Merit Curriculum. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue **further study in science, math, medical, and engineering related fields. May qualify as a 4<sup>th</sup>-year math-related course if taken after the MMC Science requirement has been fulfilled.**

**PHYSICS – D220**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

**Prerequisite: Successful completion of Algebra 1 and Biology strongly recommended**

This course provides a conceptual approach to the fundamental principles and laws of physics. Topics include the motion of objects, forces and motion, forms of energy, and energy transformations. Practical experience is used to create a framework for learning physics concepts, and emphasis is placed on comprehension before computation. Upon completion, students should be able to demonstrate a basic understanding of physics and how it relates to other fields. This course meets the requirements of the Michigan Merit Curriculum, and is recommended for students who do not intend to enter scientific or mathematical fields such as medicine, or engineering.

## **PHYSICS – D225**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

**Prerequisite:** Algebra 2 completed or concurrent, and successful completion of Biology strongly recommended

This course provides an analytically based exposure to the fundamental principles and laws of physics, and uses algebra and trigonometry-based models to explore the fundamental concepts that describe the physical world. Topics include the motion of objects, forces and motion, forms of energy, and energy transformations. This course meets the requirements of the Michigan Merit Curriculum. Upon completion, students should be able to demonstrate an understanding of the physics concepts that are foundational for further study of advanced science, medicine, or engineering. May qualify as a 4<sup>th</sup>-year math-related course if taken after the MMC Science requirement has been fulfilled.

## **ADVANCED GEOLOGY - D415**

CHS 11, 12 1.0 Credit

**Prerequisite:** Successful completion of Biology required; and Chemistry 215 recommended

Equivalent of a one-semester introductory college course in geological science. This course is designed to be an in depth study of both the physical and historical aspects of the geology of the Earth. Through fieldwork, students will explore the Earth's surface and interior processes with an emphasis on Michigan's geology. Students in this class will also develop and apply investigative techniques to current geological challenges, such as natural resource allocation, erosional implications, and disaster preparedness and response. Students will also investigate the formation of natural wonders such as the Grand Canyon, Hawaiian volcanoes and the Rocky Mountains. Students who take and successfully pass the Advanced Geology exam may be able to earn up to 4 semester college credits

## **HUMAN ANATOMY & PHYSIOLOGY – D420**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

**Prerequisites:** Successful completion of Biology and Chemistry

This course is designed to prepare students for college classes in human or health science and is valuable for those who envision a career in medicine, dentistry, veterinary care, physical therapy, nursing, coaching, research, or teaching. The class emphasizes human form (anatomy) and function (physiology) as students study 13 different human systems. The course concludes with a comprehensive dissection laboratory exercise.

## **FORENSIC SCIENCE – D510**

CHS, EHS, NHS 10, 11, 12 .5/sm; 1.0/yr Credit

**Prerequisites:** Successful completion of Biology

In this course, students will learn about forensic science, the application of science to law. Major topics of study include fingerprinting, blood spatter evidence collection and analysis, DNA evidence analysis, trace evidence collection and analysis, proper crime scene procedures, and the legal issues involved with evidence collection and storage. This course may be taken 2 semesters, with a different emphasis in each semester for 1.0 credit (CHS and NHS).

## **ENVIRONMENTAL SCIENCE – D530**

CHS, EHS, NHS 11, 12 .5 Credit

**Prerequisite:** Successful completion of Environmental Impacts or Biology

Students will investigate fundamental environmental issues through scientific inquiry and experience the basics of ecology and sustainable living through labs, activities, current articles from the media, and discussion. Study emphasizes the application of topics from earth science, biology, and chemistry. Students will acquire the insight and knowledge to better understand the complexities of environmental issues.

## **SCIENTIFIC RESEARCH PROGRAM**

The Scientific Research Program is a research-based class where students who are passionate about science have an opportunity to conduct scientific research at a college level. It will give students the opportunity to take a specific issue or question, become an expert on that topic, and then actually conduct research in a real world setting with a mentor scientist. It is a 3-year program beginning in 10<sup>th</sup> grade with Introduction to Scientific Research, then continuing in 11 grade with Scientific Research in Practice, and finally in 12<sup>th</sup> grade with Independent Scientific Research Study.

## **INTRODUCTION TO SCIENTIFIC RESEARCH**

- D551

CHS, EHS 10 1.0 Credit

**Prerequisite:** Successful completion of Biology, application and instructor approval

This introduction to research class enables students to perform authentic and original scientific research in an independent manner. This program affords students the opportunity to participate in the community of scientific research and scholarship as part of their high school experience. This course encourages students to work with relevant research topics within life sciences, physical sciences, Earth sciences and mathematics. With successful completion of this course, additional credit may be earned in the Research in Practice class as well as potential credit in the Independent Research Study.

**SCIENTIFIC RESEARCH IN PRACTICE - D552**

CHS 11 .5/sm; 1.0/yr Credit

**Prerequisite: Successful completion of Introduction to Research**

This research in practice class is a continuation of the student's research topic as well as a continuation of work with their mentor scientist. Students will work on a hypothesis and developing a successful testing method for that hypothesis. During this year, the student will conduct research based on their specific topic of study working with their mentor scientist.

**INDEPENDENT SCIENTIFIC RESEARCH****STUDY - D553**

CHS 12 1.0 Credit

**Prerequisite: Scientific Research in Practice**

This independent Research Study course will involve students that have successfully completed their research with their mentor scientist in the previous Research in Practice course. The students will perform statistical analysis on the data that they have collected and complete a publishable ready paper for possible journal submission. These students will get a chance to present their research at a symposium open to local scientists and the public. They may also have the opportunity to enter their research into competitions for high school science research.

**AP BIOLOGY – D610**

CHS, EHS, NHS 11, 12 2.0 Credit\*

**Prerequisite: Successful completion of Biology required and Chemistry 215 recommended**

This is a challenging college equivalent course and students must be exceptionally motivated and able to perform at a high level. Most enrollees envision a career in biological science or in the human/health sciences. The curriculum is rigorous and demanding and students are expected to commit significant amounts of time to master the breadth of biology topics described by The College Board. The class is offered to help students achieve success on the AP Biology Exam administered in May. Students earning a 4 or 5 on the AP Biology Exam can earn 5-8 semester credits in biological/life science. The course includes all topics covered in a freshman-level college course for biology majors and utilizes a college textbook. Particular points of emphasis include evolution and the role of DNA in living organisms. Twelve

comprehensive labs are conducted to serve as a lab class equivalent in a one-semester college biology class. **\*This is a two-hour course; one credit will be given a letter grade while the accompanying lab credit will be graded Credit/No Credit.**

**AP CHEMISTRY – D620**

CHS, EHS, NHS 11, 12 2.0 Credit\*

**Prerequisite: Algebra 2 completed or concurrent, and successful completion of Chemistry 215 strongly recommended**

This is a challenging course that is the college equivalent of first year inorganic chemistry. The class is designed to prepare students for engineering or medical/health careers as well as for Inorganic and Organic Chemistry in college. It is offered to help students find success on the AP Chemistry exam given by the College Board in May. Students may earn college credit (depending on the college they attend). The course utilizes a college textbook and requires a significant time commitment to accomplish. Laboratory activities are performed both to help prepare students for the AP Exam and to further their knowledge and experience in Chemistry. **\*This is a two-hour course; one credit will be given a letter grade while the accompanying lab credit will be graded Credit/No Credit. May qualify as a 4<sup>th</sup>-year math-related course if taken after the MMC Science requirement has been fulfilled.**

**AP ENVIRONMENTAL SCIENCE– D630**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Successful completion of Chemistry 215**

Equivalent of a one-semester introductory college course in environmental science, this class provides 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 and/or preventing them. It is unique because it is multidisciplinary, drawing its content from geology, biology, earth science, chemistry, meteorology, geography, and social issues. Attendance at fieldwork experiences is mandatory. Students are encouraged to take the AP Environmental Science exam in May.

### **AP PHYSICS 1 and 2: Algebra-Based**

College Board split AP Physics B into 2 full-year courses, AP Physics 1 and 2. Splitting the AP Physics B course into 2 separate, full-year courses allows students to achieve in-depth understanding. They will have more time for hands-on explorations of physics content and inquiry labs. The split further aligns the Algebra-based physics with the Calculus-based physics offering. AP Physics 1 covers the same topics as AP Physics C: Mechanics as well as simple circuits, while AP Physics 2 is the Algebra-based equivalent of AP Physics C: Electromagnetism with the addition of fluid mechanics, thermodynamics, and atomic and nuclear physics. Northern High School will offer AP Physics 1 & 2. Central and Eastern High Schools will continue to offer AP Physics C: Mechanics.

### **AP PHYSICS 1: Algebra-Based – D640**

NHS 11, 12 1.0 Credit

#### **Prerequisites: Chemistry, Algebra 2**

AP Physics 1: Algebra-based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. AP Physics 1 students will also design, construct, and operate an Underwater Remote Operated Vehicle (ROV). The ROV provides students with an avenue to tangibly apply the concepts they are studying. Students are encouraged to take the AP Physics 1 exam in May for possible college credit. **May qualify as a 4<sup>th</sup>-year math-related course if taken after the MMC Science requirement has been fulfilled.**

### **AP PHYSICS 2: Algebra-Based – D642**

NHS 12 1.0 Credit

#### **Prerequisites: AP Physics 1: Algebra-Based**

AP Physics 2: Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. Students are encouraged to take the AP Physics 2 exam in May for possible college credit. **May qualify as a 4<sup>th</sup>-year math-related course if taken after the MMC Science requirement has been fulfilled.**

### **AP PHYSICS C: Mechanics – D645**

CHS, EHS 11, 12 1.0 Credit

#### **Prerequisite: AP Calculus completed or concurrent**

Physics is a science in which we learn more about the details of natural phenomena through reasoning, experimentation and mathematical analysis. This course prepares students for engineering or other science majors and provides the opportunity to study a college level calculus-based mechanics course in physics. Students should anticipate that the course will involve intense study that will occupy a significant amount of time. The final outcome of the course is student preparation to take the AP Physics C: Mechanics test in May. **May qualify as a 4<sup>th</sup>-year math-related course if taken after the MMC Science requirement has been fulfilled.**



# FHPS STEM ACADEMY

NHS 9, 10, 11, 12

The FHPS STEM Academy is a half-day program designed for the student with a strong interest in the areas of Science, Technology, Engineering, and Mathematics (STEM). Entrance into the Academy is through application only. Students admitted to the STEM Academy will spend half of their day with the general population and spend the other half of the day with their STEM cohort. STEM Academy students will receive exposure and experience to the field of engineering, receive training in computer programming, and receive instruction in math and science through a thematic approach that will form a more direct link between the classroom and contemporary issues. One major facet of the STEM Academy is the Senior Design Project where students will work in teams, along-side professionals from our community, to design and synthesize a tangible product that will address a current societal need. Teams will be tasked with presenting these products back to the sponsoring party. The Academy is a four-year program beginning in the 9<sup>th</sup> grade. Below is a course map for students enrolled in the Academy:

## STEM schedule for classes of 2019 & 2020

	1 7:40-8:40	2 8:45-9:55	3 10:00-11:00	STEM Academy 11:35 – 2:45			
9 <sup>th</sup>	Parent High School (CHS, EHS, NHS) Non-STEM Classes			Engineering 101	Geometry thru CAD	Honors Biology	Algebra 2
10 <sup>th</sup>	Parent High School (CHS, EHS, NHS) Non-STEM Classes			Computer Programming Language 1	Chemistry 215	Pre-calculus	
11 <sup>th</sup>	Computer Programming Language 2	AP Physics 1 or AP Physics C Mechanics	AP Calculus BC	Parent High School (CHS, EHS, NHS) Non-STEM Classes			
12 <sup>th</sup>	Engineering Design Workshop		Parent High School (CHS, EHS, NHS) Non-STEM Classes				

## STEM schedule for classes 2021 and beyond

	1 7:40-8:40	2 8:45-9:55	3 10:00-11:00	STEM Academy 11:35 – 2:45			
9 <sup>th</sup>	Parent High School (CHS, EHS, NHS) Non-STEM Classes			CAD/Design Thinking	Geometry	Honors Biology	
10 <sup>th</sup>				Robotics	Chemistry 215	Algebra 2	
11 <sup>th</sup>	AP Computer Science Principles	Pre-Calculus	AP Physics 1	Parent High School (CHS, EHS, NHS) Non-STEM Classes			
12 <sup>th</sup>	Engineering Design Workshop						

# SOCIAL STUDIES DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
C100	Civics	.50	9	CH, EH, NH	Civics	
C110	Economics	.50	9	CH, EH, NH	Economics	
C101/C111	Civics & Economics for Spanish Immersion	1.00	11,12	NH	Civics & Economics	Successful completion of 8 <sup>th</sup> grade Spanish Immersion or teacher permission
C210	U.S. History	1.00	10	CH, EH, NH	US Hist/Geog	
C211	US History for Spanish Immersion	1.00	10, 11, 12	NH	US Hist/Geog	Successful completion of 9 <sup>th</sup> grade Spanish Immersion
C212	US Hist/English 10 Block	2.00	10	CH, EH	US Hist/ELA	
C310	World History	1.00	11, 12	CH, EH, NH	Wld Hist/Geog	
C311	World History for Spanish Immersion	1.00	9, 10, 11,12	NH	Wld Hist/Geog	Spanish Immersion or teacher permission
C312	World Hist/English 11 Block	2.00	11	CH, EH	Wld Hist/ELA	
C610	AP U.S. History	1.00	10, 11, 12	CH, EH, NH	US Hist/Geog	
C620	AP U.S. Gov't & Politics	.50	11, 12	CH, EH, NH	Civics	
C630	AP World History	1.00	11, 12	CH, EH, NH	Wld Hist/Geog	US History
C640	AP U.S. Gov't & Politics/ AP Comparative Gov't & Politics	1.00	11,12	NH	Civics	
C650	AP European History	1.0	11, 12	NH		
C660	AP Macroeconomics	.50	11, 12	EH, NH	4th yr Math & Economics	
<b>ADDITIONAL SOCIAL STUDIES ELECTIVES</b>						
C181	Rebuilding History	.50	9, 10, 11, 12	NH		
C420	Honors International Relations/ Model UN	.50	9, 10, 11, 12	CH, EH, NH		Teacher recommendation and department head approval
C510	Social Psychology	.50	9, 10, 11, 12	CH		
C514	Psychology	.50	11, 12	CH, EH, NH		
C515	Advanced Psychology	.50	11, 12	CH, NH		Successful completion of Psychology
C518	Sociology	.50	11, 12	CH, EH, NH		
C520	History of Thought	.50	11, 12	CH, EH, NH		
C532	History V. Hollywood	.50	11, 12	CH, EH, NH		Successful completion of U.S. History
C534	Comparative World Religions	.50	11, 12	CH, EH		
C535	Global Issues for Spanish Immersion	.50	11, 12	NH		
C538	History V. Hollywood for Spanish Immersion	.50	11, 12	NH		
C614	AP Psychology	.50	11, 12	EH, NH		
C665	AP Microeconomics	.50	11, 12	EH, NH	4th yr Math	

**Civics** – Meets the Civics Requirement based on the Michigan Merit Curriculum

**Economics** – Meets the Economics Requirement based on the Michigan Merit Curriculum

**US Hist/Geog** – Meets the US History/Geography Requirement based on the Michigan Merit Curriculum

**Wld Hist/Geog** – Meets the World History/Geography Requirement based on the Michigan Merit Curriculum

**CIVICS – C100**

CHS, EHS, NHS 9 .5 Credit

This semester course has three interrelated components: knowledge, intellectual and participatory skills, and civic dispositions. The knowledge component focuses on questions that should engage every thoughtful citizen. In the intellectual/participatory component, students learn how, when, and where to apply civic knowledge in their role as citizens. The civic disposition component reflects the core democratic values and civic principles essential to the preservation and improvement of American constitutional democracy.

**ECONOMICS – C110**

CHS, EHS, NHS 9 .5 Credit

In this semester course, students analyze and study economic concepts and principles in three contextual areas: individual and household, business, and government/public. In addition, students focus on four content areas: the market economy (microeconomics), the national economy (macroeconomics), the international economy, and personal finance. Through understanding economics, students will attain the “economic literacy” vital in today’s world economy.

**CIVICS/ECONOMICS FOR SPANISH IMMERSION**

– C101/Civics; C111/Econ

NHS 11, 12 1.0 Credit

**Prerequisite: Successful completion of 8th grade Spanish Immersion Program or teacher permission**

This course, taught in Spanish, will combine the two one-semester Civics and Economics courses. Students will learn the structure of American government, modern media in politics, and how to participate in a democracy. In addition, students will learn the fundamental concepts of economics at the personal, business, market, and international levels. This course emphasizes students’ evaluative skills as Spanish speakers, as well as continue developing pre-SAT writing skills.

**U.S. HISTORY – C210**

CHS, EHS, NHS 10 1.0 Credit

This comprehensive yearlong study of United States history, with special emphasis on the 20<sup>th</sup> century, will stress political, economic, social, diplomatic, and cultural developments during the last 100 years. Students will be required to read several historical works and to become acquainted with historical research techniques and basic historical writing.

**US HISTORY FOR SPANISH IMMERSION – C211**

NHS 10, 11, 12 1.0 Credit

**Prerequisite: Successful completion of 9th grade Spanish Immersion Program or teacher permission.**

This comprehensive year-long study of United States history, taught in Spanish, emphasizes political, economics, and social structure during the last 100 years. Students further develop skills in analyzing text for bias, point-of-view, audience, and purpose as well as engaging with American cultural themes and practice through interpersonal and interactive tasks. Pre-SAT reading and writing skills are integrated into course content.

**U.S. HISTORY/ENGLISH 10 BLOCK – C212**

CHS, EHS 10 1.0 Cr US Hist &amp; 1.0 Cr ELA

This exciting 2-hour block class brings together American History and American Literature in a cooperative atmosphere that enhances the experience for all students. Thematic units on the Industrial Revolution, Progressive Era, WWI, Roaring 20’s and the Great Depression, WWII, the Cold War and American Hegemony are taught through reading, writing, discussion, hands on activities, cinema, simulations and thematic projects. By bringing both American history and American Literature together for two consecutive hours powerful connections between the two can be made and the educational experience is greatly enhanced. Students successfully completing this course will receive 1.0 social studies credit and 1.0 English credit.

**WORLD HISTORY - C310**

CHS, EHS, NHS 11, 12 1.0 Credit

This yearlong course takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world’s people, cultures, societies, and environment. The course engages students in cross-temporal and cross-regional studies; within historical eras, students work at three interconnected spatial scales: the global, interregional, and regional. Five historical eras are covered: 1) Hemispheric Interactions (300 to 1500 C.E.); 2) Emergence of the 1<sup>st</sup> Global Age (15<sup>th</sup> to 18<sup>th</sup> centuries); 3) Global Revolutions (18<sup>th</sup> century to 1914); 4) Global Crisis & Achievement (1900-1945); and 5) The Cold War & Its Aftermath (20<sup>th</sup> century since 1945).

## **WORLD HISTORY FOR SPANISH IMMERSION – C311**

NHS 9, 10, 11, 12 1.0 Credit

**Prerequisite:** Successful completion of 8th grade Spanish Immersion Program or teacher permission

This year-long course, taught in Spanish, takes a global approach to studying historical and geographic themes over the last 1500 years, introducing analytical and comparative reading strategies. As writers, students develop their abilities to integrate authentic sources with prior knowledge in order to demonstrate their learning.

## **WORLD HISTORY/ENGLISH 11 BLOCK – C312**

CHS, EHS 11 1.0 Cr Wld Hist & 1.0 Cr ELA

The World History and World Literature (English 11) block provides students with challenges to their thinking and the opportunity to actively learn and study the common themes of these two complementary courses. Thematic units will revolve around historical eras such as Age of Empires, The Renaissance, The Age of Exploration, Revolution, World Wars, and the 21<sup>st</sup> century. Historical units are greatly enhanced by the application and analysis of authors, novels, poetry, and essays found in corresponding and complementary World Literature. Students will engage in critical reading and writing, simulations, cinema analysis, and project-based learning as they examine both World History and World Literature from varying cultural perspectives. This is a two-credit course scheduled for two consecutive hours: Social Studies 1.0 credit, English 1.0 credit.

## **AP U.S. HISTORY – C610**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

This course is a comprehensive, accelerated, college level survey course encompassing North American and United States history and geography from the colonial era to the present. It is designed for students who have a serious interest in history and who have excellent language arts skills, as extensive content area reading and writing are required. Students enrolled in this course are encouraged to take the AP U.S. History examination, which is offered in May. A research project will also be assigned during the final marking period.

## **AP EUROPEAN HISTORY – C650**

NHS 11, 12 1.0 Credit

This course focuses on developing students' understanding of European history from approximately 1450 to the present. This course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past.

## **AP UNITED STATES GOVERNMENT AND POLITICS – C620**

CHS, EHS, NHS 11, 12 .5 Credit

(This is a 2<sup>nd</sup> semester course)

This intense and demanding course studies the structures and functions of the American political and national governmental systems. The text is a detailed and extensive 23-chapter, college-level book; exceptional reading and writing skills are a must. Additional readings will include journal, newspaper, and magazine articles. Students will average a multiple-choice test and one graded essay assignment a week related to chapter topics. Testing in the course will model the form and style of the actual Advanced Placement exam. A number of political videos and other political television programming will be used. Students in the course are encouraged to take the AP U.S. Government exam in May. This course may be taken in sequence with AP Comparative Government and Politics. **Please Note: This course can be taken to fulfill the Civics requirement.**

## **AP WORLD HISTORY – C630**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite:** U.S. History

This yearlong course develops greater understanding of the evolution of global processes and contacts in different types of human societies. The course has as its chronological frame the period from approximately 8000 B.C.E. to the present, with the period 8000B.C.E. to 600 C.E. serving as the foundation for the balance of the course. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. It is equivalent to an introductory college course in world history and students are eligible to take the AP World History exam in May, which presumes at least one year of college-level preparation.

## **AP UNITED STATES GOVERNMENT AND POLITICS/AP**

### **COMPARATIVE**

## **GOVERNMENT AND POLITICS – C640**

NHS 11, 12 1.0 Credit

(This is a year-long, evening course)

This course is an integrated combination of AP United States Government/Politics and AP Comparative Government/Politics. Along with AP US Government and Politics (see description above), AP Comparative Government and Politics examines the world's diverse political structures and practices. AP Comparative Government and Politics encompasses the study both of specific countries and of general concepts used to interpret the key political relationships found in all national polities. Exceptional reading and writing skills are a must. Testing in the course will model the form and rigor of the actual Advanced Placement exams.

## AP MACROECONOMICS – C660

EHS, NHS 11, 12 .5 Credit

The purpose of this college level course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students are encouraged to take the AP Test in May to potentially earn college credit.

**May qualify as a 4<sup>th</sup>-year math-related course. Please Note: This course can be taken to fulfill the Economics requirement.**

## ADDITIONAL SOCIAL STUDIES ELECTIVES

### REBUILDING HISTORY - C181

NHS 9, 10, 11, 12 .5 Credit

Rebuilding History is a project-based course that allows students to engage with historical themes, experiences, and innovations as engineers and writers. Projects are centered around collaborative construction of historical models, while students research, hypothesize, and write on their learning through the experience. Students are evaluated on research skills, presentational writing and speaking tasks, and professional collaboration throughout the semester.

### HONORS INTERNATIONAL RELATIONS/ MODEL UN – C420

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

**Prerequisite: Teacher recommendation and department head approval**

(This is a 1<sup>st</sup> semester course and may be scheduled as an evening class for some buildings.)

Students will learn the basic rules of parliamentary procedure. The structures and functions of United Nations Committees and agencies, how to conduct international policy research, how to write position papers and U.N. resolutions, how to formulate and present reasoned arguments in extemporaneous oral debate, and participate in a number of other engaging activities. Students are expected to compete at one of two Model United Nations conferences held off-site during the semester at their own expense. Students may take the course four times, once in each grade level, for grade and credit.

## SOCIAL PSYCHOLOGY – C510

CHS 9, 10, 11, 12 .5 Credit

This course is designed to help prepare students for adult life. Students will learn how to cope more effectively with feelings about themselves and others, establish satisfying relationships, and make decisions about personal values that affect their lives. Personal awareness and self-concept, changing roles, building relationships, dating, mate selection, marriage customs/laws, and marital adjustments will be studied. Social issues such as abuse/neglect, eating disorders, suicide, teen pregnancy, and substance abuse are also addressed.

### PSYCHOLOGY – C514

CHS, EHS, NHS 11, 12 .5 Credit

This introductory course encompasses topics such as conditioning, learning, personality theory and development, abnormal behavior, personality assessment, stress, frustration, treatment of personality disorders, authority, and obedience. Critical thinking, role-playing, and large and small group discussion are activities required in this course.

### ADVANCED PSYCHOLOGY – C515

CHS, NHS 11, 12 .5 Credit

**Prerequisite: Successful completion of Psychology**

The emphasis of the course is on topics of social psychology, such as: social behavior, individuality and conformity, domestic violence, racism, crime and punishment. The course will expose students to readings and discussion of theorists in the field.

### SOCIOLOGY – C518

CHS, EHS, NHS 11, 12 .5 Credit

This is an introductory survey course that examines the principles of sociology and the methodology of the sociologist. The course will examine groups, the group process, and institutions and how they operate. Current controversial social issues may be discussed, such as substance abuse, crime, and death and dying. Critical thinking, role-playing, and group discussion are activities required in the course.

### HISTORY OF THOUGHT – C520

CHS, EHS, NHS 11, 12 .5 Credit

This course seeks not only to acquaint students with the basics of Western thought, but also seeks the outcome of the application of those basics to personal experience. Through lectures, readings, movies, discussion, and essays, students will explore the answers philosophers have given to the foundational questions inherited from the Greeks, as well as examine, develop, and refine their own philosophy of life.

### **HISTORY V. HOLLYWOOD - C532**

CHS, EHS, NHS 11, 12 .5 Credit

**Prerequisite: Successful completion of US History**

Students will examine the critical study of film versus historical accuracy. Formal, economic, social, and historical aspects of films and reception in the U.S. will also be studied. This course will develop an understanding of relationships between cinema and American culture and involves close textual analysis of historically important and/or exemplary films.

### **COMPARATIVE WORLD RELIGIONS - C534**

CHS, EHS 11, 12 .5 Credit

This is a survey course of the world's primary eastern and western religions. Religion is a significant force behind national and international culture, behavior, and politics. This course starts by defining religion and searching its origins. The western religions of Judaism, Christianity, and Islam are explored in their origins, features, doctrine and significance. Next, the eastern religions of Hinduism, Buddhism, Taoism, Confucianism, and Shinto are examined. Several speakers and a field trip will be incorporated in the curriculum. *This course is being offered following the guidelines of the Interfaith Dialogue Association, which is composed of a world recognized ecumenical group of religious leaders. These guidelines focus on facts - not advocating for or indoctrinating about a particular religion.*

### **GLOBAL ISSUES FOR SPANISH IMMERSION - C535**

NHS 11, 12 .5 Credit

This elective course is a capstone experience for the Spanish Immersion Social Studies program, allowing students to apply their Spanish skills as researchers, collaborators, and presenters. Students research global themes in modern society through chronological, geographical, and socioeconomic lenses. This course heavily emphasizes current events in human rights, as well as American foreign policy.

### **HISTORY V. HOLLYWOOD FOR SPANISH IMMERSION - C538**

NHS 11, 12 .5 Credit

**Prerequisite: Successful completion of US History**

This course, taught in Spanish, will examine the critical study of film versus historical accuracy. Formal, economic, social, and historical aspects of films and reception in the U.S. will also be studied. This course will develop an understanding of relationships between cinema and American culture and involves close textual analysis of historically important and/or exemplary films.

### **AP PSYCHOLOGY - C614**

EHS, NHS 11, 12 .5 Credit

**Prerequisite: Advanced Psychology recommended**

The primary purpose of this introductory college-level course is to prepare students for the AP Psychology exam offered in May. Students will learn methods, approaches, and history of psychology; biological bases of behavior; sensation and perceptions; learning, cognition; developmental psychology, testing and individual differences; and treatment of psychological disorders.

### **AP MICROECONOMICS - C665**

EHS, NHS 11, 12 .5 Credit

The purpose of this college level course in Microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Students are encouraged to take the AP test in May to potentially earn college credit. **May qualify as a 4th-year math-related course.**

# WORLD LANGUAGE DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
F105	French Language & Culture	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	
F110	French 1	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	
F210	French 2	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	Successful completion of French 1
F310	French 3	1.00	10, 11, 12	CH, EH, NH	World Lang	Successful completion of French 2
F410	French 4	1.00	11, 12	CH, EH,	World Lang	Successful completion of French 3
F610	AP French	1.00	11, 12	CH, EH, NH	World Lang	Successful completion of French 4 or equivalent
F120	Spanish 1	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	
F220	Spanish 2	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	Successful completion of Spanish 1
F320	Spanish 3	1.00	10, 11, 12	CH, EH, NH	World Lang	Successful completion of Spanish 2
F420	Spanish 4	1.00	11, 12	CH, EH, NH	World Lang	Successful completion of Spanish 3
F620	AP Spanish Language and Culture	1.00	11, 12	CH, EH, NH	World Lang	Successful completion of Spanish 4 or equivalent
F621	AP Spanish Literature	1.00	11, 12	CH, EH, NH	World Lang	Successful completion of AP Spanish
F130	American Sign Language 1	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	
F230	American Sign Language 2	1.00	10, 11, 12	CH, EH, NH	World Lang	Successful completion of ASL 1
F330	American Sign Language 3	1.00	11, 12	CH, EH, NH	World Lang	Successful completion of ASL 2
F430	American Sign Language 4	1.00	12	NH	World Lang	Successful completion of ASL 3
F140	Chinese 1	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	
F240	Chinese 2	1.00	10, 11, 12	CH, EH, NH	World Lang	Successful completion of Chinese 1
F340	Chinese 3	1.00	11, 12	CH, EH, NH	World Lang	Successful completion of Chinese 2
F440	Chinese 4	1.00	11, 12	CH, EH, NH	World Lang	Successful completion of Chinese 3
Spanish Immersion Courses						
F221	Spanish Immersion 9	1.00	9	NH	World Lang	Spanish Immersion Program
F321	Spanish Immersion 10	1.00	10	NH	World Lang	Spanish Immersion Program
F421	Spanish Immersion 11	1.00	11	NH	World Lang	Spanish Immersion Program
F521	Spanish Immersion 12	1.00	12	NH	World Lang	Spanish Immersion Program

**World Language** – Meets the World Language Requirement based on the Michigan Merit Curriculum, beginning with the class of 2016

<p><b>FRENCH LANGUAGE AND CULTURE – F105</b>            CHS, EHS, NHS      9, 10, 11, 12      1.0 Credit            This course is perfect for students who want to explore a language, but are not sure they are ready for the rigor of a traditional French class. In this course, students will learn basic skills that will help them navigate in a French-speaking country. Units will include, but are not limited to, greetings, describing yourself and others, how to travel to, and in, a French-speaking country, and how to navigate a restaurant experience while there. Along the way, students will be exposed to authentic French materials and delve into cultural differences between the U.S. and French-speaking countries.</p>	<p><b>FRENCH 1 – F110</b>            CHS, EHS, NHS      9, 10, 11, 12      1.0 Credit            During the first year of French, students will experience the cultures and language of French speaking peoples around the world. Through the use of authentic materials students will be able to communicate in French at the novice level, developing their skills in listening, speaking, reading and writing.             Authentic materials from the Internet and other sources, including French songs, videos and games, will be used throughout the course. Students will engage in many hands on projects in the classroom including creating a restaurant, going shopping for school supplies and other fun activities.</p>
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## **FRENCH 2 – F210**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

### **Prerequisite: Successful completion of French 1**

This course is a continuation of French I. Using the series *Bien Dit*, students will continue to develop the skills of listening, reading, and writing begun in the first year. Knowledge of the Francophone world will be expanded as well as the students' vocabulary base and cultural awareness. Students will continue to practice language acquisition through audio, video, CD, text, and workbook components. They will also be expected to do some journal writing as well as use the target language in the classroom.

## **FRENCH 3 – F310**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

### **Prerequisite: Successful completion of French 2**

This course also uses the series *Bien Dit* and continues the traditions started in the first two years. A goal of this course is to switch to the teacher and students using mostly French in the classroom setting. Along with the continued expansion of all the skills from the first two years, the French book *Le Petit Prince* will be studied.

## **FRENCH 4 – F410**

CHS, EHS 11, 12 1.0 Credit

### **Prerequisite: Successful completion of French 3**

French 4 continues to perfect speaking, comprehension, reading, and writing skills with a survey of French history and literature as the main focus. The course is conducted in French. Grammar and vocabulary review is also stressed.

## **AP FRENCH – F610**

CHS, EHS, NHS 11, 12 1.0 Credit

### **Prerequisite: Successful completion of French 4 or equivalent**

This class is geared toward the serious student who loves French and wants to continue its study at the university level. Using the series *Interaction*, students will study many aspects of modern life in the Francophone world. They will continue to practice reading, speaking, listening, and writing as well as do some class presentations. This class will be conducted entirely in French. Students will also prepare for the AP test and may choose to take this exam at the end of the year.

## **SPANISH 1 – F120**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

During the first year of Spanish, students will experience the cultures of Spanish-speaking people both abroad and in the US. Students will develop skills in listening, speaking, reading and writing, as well as study common vocabulary and grammar patterns. The *Realidades* series that we use offers many varied opportunities for students to practice all aspects of language acquisition through audio, video, CD, text and workbook components. This class is very important in forming a strong base for future study in the language.

## **SPANISH 2 – F220**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

### **Prerequisite: Successful completion of Spanish 1**

Spanish 2 students will further develop skills acquired in Spanish 1. They will increase their knowledge of vocabulary and grammar, as well as of culture and geography using the *Realidades* textbook series.

## **SPANISH 3 – F320**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

### **Prerequisite: Successful completion of Spanish 2**

Students enrolled in this course will be expected to do most course work in the Spanish language. In order to foment the study of culture, geography and civilization, there will be various learning opportunities that are project-based. Students will demonstrate accumulated reading strategies by reading a novel in the target language.

## **SPANISH 4 – F420**

CHS, EHS, NHS 11, 12 1.0 Credit

### **Prerequisite: Successful completion of Spanish 3**

Fourth year of Spanish provides the opportunity for students to concentrate on perfecting skills introduced in the first three years of Spanish; namely speaking, listening, reading and writing. Grammar is intensively reviewed and students will continue to show mastery of these concepts in both their speaking and writing. As they explore the vast world of Hispanic culture and literature, students will learn and apply vocabulary and key expressions relating to literary criticism as well as "essay writing". Students will demonstrate mastery through written, oral and aural tests, presentations, conversation groups, as well as journal and essay writing.

## **AP SPANISH LANGUAGE AND CULTURE – F620**

CHS, EHS, NHS 11, 12 1.0 Credit

### **Prerequisite: Successful completion of Spanish 4 or the equivalent**

Students will concentrate on creating precise, advanced essays and other writings. Students will produce authentic, fluid dialogues, and oral essays. Student also will use various authentic reading materials to strengthen their reading comprehension.



## **AP SPANISH LITERATURE - F621**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Successful completion of AP Spanish**

The AP Spanish Literature course is a survey course that covers the six AP Spanish Literature themes and the entire AP Spanish Literature reading list. The course is conducted entirely in Spanish and covers Spanish and Latin American authors and their works from the medieval period to the present day. The works are presented in chronological order in order to integrate the historical themes, art, and literary movements of the different time periods. Students will consider the socio-cultural context of each work and engage in analytical thinking and discussion. Students will develop proficiency in Spanish in all skills, with emphasis on critical reading and analytical writing. Students will be prepared to take the AP Spanish test in May.

## **AMERICAN SIGN LANGUAGE 1 – F130**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

American Sign Language (ASL) is a two-semester course. This course introduces the fundamentals of ASL used by the Deaf Community, including basic vocabulary, syntax, fingerspelling, and grammatical non-manual signals. It focuses on communicative competence and develops gestural skills as a foundation for ASL enhancement. ASL introduces cultural knowledge and increases understanding of the Deaf Community. Students will leave with an understanding of basic sentences as well. This course is intended for all students.

## **AMERICAN SIGN LANGUAGE 2 – F230**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

**Prerequisite: Successful completion of both semesters of ASL 1**

American Sign Language 2 is a two-semester course in American Sign Language and Deaf Culture. Students will have a further understanding of ASL and practice with fingerspelling, numbers, facial grammar, and sentence structure. Students will spend time in expressive and receptive language interactions.

## **AMERICAN SIGN LANGUAGE 3 – F330**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Successful completion of both semesters of ASL 2**

American Sign Language 3 is a two-semester course. ASL 3 builds on skills learned in ASL 2, adding more complex ASL grammatical features and vocabulary. Students will also acquire and share more short stories, narratives, and dialogues. The course will include further description of general surroundings, appropriate sequencing, temporal aspects and conditionals. Information about the Deaf Community and Deaf Culture will be included.

## **AMERICAN SIGN LANGUAGE 4 – F430**

CHS, EHS, NHS 12 1.0 Credit

**Prerequisite: Successful completion of both semesters of ASL 3**

American Sign Language 4 is a two-semester course. This course applies knowledge of ASL grammar and vocabulary from levels 1, 2 and 3. Students will expand their knowledge of vocabulary through describing settings, step-by-step processes, cause and effect, and culturally significant topics relating to the Deaf community. Students will also develop their use of character role shifting from use of 2-3 character roles to multiple characters and discussion of hypothetical issues. Emphasis is also placed on greater fluency in idiomatic language. Linguistics competence is enhanced through interactive discourse with native language users. Students should be allowed to attend and create events in the community during the school day as part of the class.

## **CHINESE 1 – F140**

CHS, EHS, NHS 9, 10, 11, 12 1.0 Credit

This course introduces students to Mandarin Chinese language and culture. Students will utilize an e-textbook as one of the learning tools.

## **CHINESE 2 – F240**

CHS, EHS, NHS 10, 11, 12 1.0 Credit

**Prerequisite: Successful completion of Chinese 1**

Students will further develop skills acquired in Chinese 1. Language and culture will continue to be emphasized as students learn more sophisticated language structures for speaking, listening, writing, and comprehension.

## **CHINESE 3 – F340**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Successful completion of Chinese 2**

Students will continue where Chinese 2 left off with a continued emphasis on speaking, reading, writing, and culture lessons. Students will learn increasingly sophisticated structures and become more adept at handling themselves in varied situations using Chinese entirely.

## **CHINESE 4 – F440**

CHS, EHS, NHS 11, 12 1.0 Credit

**Prerequisite: Successful completion of Chinese 3**

Chinese 4 provides students the opportunity to perfect speaking, comprehension, reading, and writing. Students will be further immersed in both the Chinese language and culture.

## **SPANISH IMMERSION LANGUAGE COURSES**

### **Prerequisites for all Spanish Immersion courses:**

#### **Successful completion of 8th grade Spanish Immersion Program or teacher permission.**

Students will increase their proficiency with interpersonal listening and speaking, interpretive reading, and writing, and presentational writing with a focus on accurate grammatical structures and paragraph length(s) for writing and discourse according to the National Standards for Foreign Language learning. Students will be exploring various disciplines and cultures to promote language study for living and working in a Spanish speaking country or using the target language here in the States in their chosen careers. Immersion classes are leveled for steadily increasing proficiency or language use and need to be taken in sequence for full 1.0 credit for optimum language learning. Skipping years or semesters in the sequence is highly discouraged.

### **SPANISH IMMERSION 9 – F221**

NHS 9 1.0 Credit

Discovery of Spanish language and cultures globally

### **SPANISH IMMERSION 10 – F321**

NHS 10 1.0 Credit

European Focus for language and cultures

### **SPANISH IMMERSION 11 – F421**

NHS 11 1.0 Credit

Central America Focus for language and cultures

### **SPANISH IMMERSION 12 – F521**

NHS 12 1.0 Credit

Inclusive of Other Spanish speaking language and cultures in the US

## **SPANISH IMMERSION ENDORSEMENT ON TRANSCRIPT**

Students graduating from Northern High School can earn a Spanish Immersion endorsement on their transcript and diploma if they have met one of the following:

- Pass one course per year of high school in the Spanish Immersion Program
- Pass AP Spanish Language and Culture

# SPECIAL EDUCATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	PREREQUISITE
N900	Academic Strategies	1.00	9, 10, 11, 12	CH, EH, NH	Current Individualized Education Plan (IEP)
B910	Reading Strategies	1.00	9, 10, 11, 12	CH, EH, NH	Current Individualized Education Plan (IEP)
V330	Kent Transition Center	3.00	11, 12	CH, EH, NH	Current Individualized Education Plan (IEP)

The prerequisite for all classes is teacher recommendation and current Individualized Education Program (IEP).

### RESOURCE ROOM AND TEACHER CONSULTANT SERVICES

Resource room and teacher consultant services enhance rather than replace the regular education curriculum. The resource program is not divided by disabilities and accommodates all students. Students are expected to meet the Michigan Merit Curriculum expectations in order to receive a diploma. (See page 7)

### ALTERNATE CURRICULUM

The major determining factor for placement in these classes is based on the degree the disability affects the students' ability to succeed in regular education settings. Typically, all students are mainstreamed wherever they can be successful. If students need more support they may be placed in classes, which replace many regular education classes. It is possible for a student to take all of his/her classes in a special education setting, but he/she may not be eligible for a diploma. (See page 7)

### ACADEMIC STRATEGIES - N900

CHS, EHS, NHS      9, 10, 11, 12      1.0 Credit

**Prerequisite:** Current Individualized Education Plan (IEP)

This course is designed to assist students in improving academic performance and meeting IEP goals and objectives. Focus areas include: work completion, time management, organization, grade improvement, extended time for test completion, and academic support in the core curriculum. Students will be evaluated through progress on grades in PowerSchool. Students will be graded CR or NC for this course based upon assignment completion in all classes and student handbook attendance guidelines.

### READING STRATEGIES - B910

CHS, EHS, NHS      9, 10, 11, 12      1.0 Credit

**Prerequisite:** Current Individualized Education Plan (IEP)

Student learning will focus on English Language Arts skills. Students will read a variety of genres including, but not limited to, narrative, expository, and informational texts. Students will use a variety of reading comprehension strategies to aid in their understanding of various reading assignments. Students will also focus on understanding and identifying figurative language and literature terms within assigned texts. Students will learn various sentence types and grammar that will be used to improve their overall writing skills. Many topics will be aligned to the Michigan Academic Standards. The overall goal of this program is to prepare students to be successful in the general education curriculum.

### KENT TRANSITION CENTER (KTC) – V330

CHS, EHS, NHS      11, 12      3.0 Credits

**Prerequisite:** Current Individualized Education Plan (IEP)

Kent Transition Center (KTC) offers adaptive vocational and career services for special education students. The following career clusters are available: Agriscience, Building Maintenance, Construction, Hospitality, Manufacturing, Nurse Aide, Retail, and Transportation.

# SPECIAL OPPORTUNITIES

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
N610	AP Seminar	1.0	11	CH		
N550	Leadership	.50	10, 11, 12	EH		
N100	Tools for Success	.50/sm 1.0/yr	9, 10, 11, 12	CH, EH, NH		Counselor/Teacher approval
N430	Teacher Cadet	.50/sm 1.0/yr	11, 12	CH, EH		EDP with career-goal of teaching
N435	Educational Experience Opportunity	.50/sm 1.0/yr	11, 12	NH		EDP with career-goal of teaching
N450	Senior Projects	.50	12	EH, NH		
N460	Peer-to-Peer	.50/sm 1.0/yr	9, 10, 11, 12	EH		
N700	Independent Study	.50	12	CH, EH, NH		Pre-approval by principal, counselor, appropriate teacher, and parent
N200	On-Line Courses, including Michigan Virtual School	.50	9, 10, 11, 12	CH, EH, NH		Written approval from counselor and principal
N299-300	Dual Enrollment Courses		9, 10, 11, 12	CH, EH, NH		
V310	Work Experience	.50/sm 1.0/yr	11, 12	CH, EH, NH		
V410	Cooperative Education	1.0/sm	11, 12	CH, EH, NH		
R100	Kent Innovations High	4.00	9, 10	CH, EH, NH	ELA, Math, Sci, Soc Stdy	
V340	Kent Career Technical Center	3.00	11, 12	CH, EH, NH		

### AP SEMINAR – N610

CHS 11 1.0/yr Credit  
 AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations.

### LEADERSHIP – N550

EHS 10, 11, 12 .5/sm Credit  
 This course is designed for students to learn leadership skills. Students will be presented with multiple opportunities to apply their learning through a wide variety of school and community activities, as well as service projects.

## **TOOLS FOR SUCCESS – N100**

CHS, EHS, NHS 9, 10, 11, 12 .5/sm Credit

### **Prerequisite: Counselor or teacher approval**

This class will offer students an opportunity to develop the organizational skills that are important to academic success. Students will be shown tools and strategies that will enable them to increase their work completion rate, meet assignment deadlines, and become more proactive in the school setting.

## **TEACHER CADET – N430**

CHS, EHS 11, 12 .5/sm Credit

### **Prerequisite: Students must have an EDP indicating a specific interest in teaching**

This course will provide high school students with classroom and field experiences that will enable them to make informed decisions regarding careers in education. Students may need to find their own placement for Teacher Cadet. This course may be taken 2 semesters for 1.0 credit.

## **EDUCATIONAL EXPERIENCE**

### **OPPORTUNITY – N435**

NHS 11, 12 .5/sm Credit

### **Prerequisite: Students must have an EDP indicating a specific interest in teaching**

This class would be for students interested in working as a special education educator. Students would be placed in our adaptive education courses (physical education, computers, art, and culinary arts) and would work cooperatively with the teacher of the course with our special education students. This class is a semester-long course.

## **SENIOR PROJECTS – N450**

EHS, NHS 12 .5 Credit

Seniors Projects is a class designated for seniors in order to develop a project outside the scope of offered courses or for career exploration. Students will work independently and determine their own projects. Weekly coursework is required online, as well as a final portfolio, research paper, and presentation. Students are required to complete 10 hours of job shadowing, internship, and/or interviews with experts in the field of choice. This course occurs over one semester.

## **PEER-TO-PEER – N460**

EHS 9, 10, 11, 12 .5/sm Credit

The Peer-to-Peer Program represents a model of 21<sup>st</sup> Century instructional design that incorporates applied (experiential) learning in a non-traditional manner. The Peer-to-Peer course incorporates a strategy for providing ongoing support and modeling from one non-disabled pupil to a pupil with an Individualized Education Program (IEP). It encompasses both the academic and social domains. Both pupils derive benefits.

Students interested in taking online courses through other sources **must** demonstrate that the coursework is aligned with the Michigan Merit Curriculum and related High School Content Expectations. Students must complete the on-line application and agree to the rules and practices included in that application.

Students wishing to enroll in on-line courses outside the school environment should see their counselor to make sure that upon completion, the course can be included on the Forest Hills transcript.

## **ELIGIBLE DUAL ENROLLMENT COURSES – N299/300**

CHS, EHS, NHS 9,10,11, 12

Students who meet certain eligibility requirements may be permitted to take approved college courses, with the school district paying part of the expenses. Students and parents should consider carefully, with the help of a counselor, the benefits and risks of early college enrollment.

The District will pay a portion of the student's tuition based on a formula determined by the State. Families are responsible for paying the differences in cost between the amount allotted by the State and the tuition of the institution. Transportation, parking costs, and most activity fees are not eligible charges under the law.

More information is available through the counseling offices.

[Dual Enrollment Form](#)

## **WORK EXPERIENCE – V310**

CHS, EHS, NHS 11, 12 .5/sm; 1/yr Credit

See page 22 in the Business Department for course description.

## **COOPERATIVE EDUCATION (CO-OP) – V410**

CHS, EHS, NHS 11, 12 1.0/sm Credit

See page 22 in the Business Department for course description.

## **APPROVED PROVISIONAL COURSES -**

Provisional Courses are classes that allow students to participate in an experimental learning environment with new content or structure not currently offered in the general curriculum. Courses are initiated by classroom teachers under the direction of the school principal, guided by department colleagues and/or appropriate curriculum committee. Courses are taught by highly qualified teachers, and content, credit, and level vary.

## **INDEPENDENT STUDY – N700**

CHS, EHS, NHS 12 .5 Credit

**Prerequisite: Pre-approval by principal, counselor, appropriate teacher, and parent**

Independent study is for the self-motivated student who has the ability to work without a great deal of direction in a course of study outside the formal curriculum. This experience is under the direct supervision of one teacher who is willing to work with a student in an area specifically suited to the student's needs and interests. The student must attend class with the teacher during the hour scheduled on a daily basis. A student wishing to pursue an independent study must have a written proposal signed by the principal, counselor, and appropriate teacher. The student is responsible for writing the independent study proposal and finding a teacher willing to supervise the student. All Independent Studies will be graded Credit/No Credit; no letter grades will be issued. An exception to this grading policy is an approved independent study of a board-approved course listed within this Course Description Guide.

## **ON-LINE COURSES, including Michigan Virtual School – N200**

CHS, EHS, NHS 9, 10, 11, 12 .5 Credit

**Prerequisite: Prior written approval from counselor and principal**

The *Michigan Virtual School (MVS)* is an accredited school that provides online courses taught by certified teachers. It is funded by the Michigan Legislature and operated by the *Michigan Virtual University*® (*MVU*), a private, not-for-profit Michigan corporation. *MVS* works in cooperation with individual school districts to grant course credit. High school students can take a variety of online courses through *MVS* and learn any place there is a computer and Internet connection. These online courses help prepare students for a lifetime of integrating technology into their workplace and daily lives. To view classes offered or for more information, visit the website at [www.mivhs.org](http://www.mivhs.org).

Students may be required to pay the cost of the MIVHS course depending on course offering and the student's schedule. Grades are issued by the online course instructor and are accepted by Forest Hills Public Schools. Letter grades and .5 credits per semester will be issued for each MIVHS course. Percentage grades will be translated to a letter grade using the FHPS Common Grading Scale. All grades issued by any on-line school, including Michigan Virtual School Are final and will not be adjusted by FHPS.

## **AP Capstone Program (FHC Only)**

The AP Capstone™ is an innovative diploma program from the College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is built on the foundation of two AP courses - AP Seminar and AP Research - and is designed to complement and enhance the in-depth, discipline-specific study experience in other AP courses.

Students who earn scores of three or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Students who earn scores of three or higher in AP Seminar and AP Research but not on four additional AP exams will receive the AP Seminar and Research Certificate. AP Seminar may also be taken as a stand-alone option.

### **AP Seminar Course:**

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing articles' divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations.

### **AP Research Course: (will be offered 2018-19)**

Prerequisite: AP Seminar

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration students design, plan and conduct a year-long research based investigation to address a research question.

In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing and synthesizing information as they address a research question. Students explore their skill development and document their processes in a portfolio. The course culminates in an academic paper and a presentation with an oral defense.

## **KENT ISD Health Career Internship Program**

CHS, EHS, NHS 11,12

.5/sm Credit

An internship through Kent ISD allows high school seniors to explore a wide variety of health careers by observing health professionals while they work. Through observation, the students gain knowledge of health care fields and an understanding of the wide range of skills needed to work in health care.

Placement opportunities include Mercy Health - Saint Mary's Campus, Spectrum Health, Pennock Health Care, private office and freestanding clinic settings. Rehabilitation, long-term care, dental and orthodontic placements are also included within internship opportunities.

Students may apply for either the fall session or the winter/spring session, which will coincide with high school semesters or trimesters. The internship is typically two afternoons per week for 2- 1/2 to 3 hours per afternoon. Weekend and evening placements may be available upon request.

For program information and application requirements, go to: [www.careerready.kentisd.org](http://www.careerready.kentisd.org)  
Click on "Students"

The fall application deadline is May 1, and the winter/spring deadline is December 1.

## **KENT INNOVATION HIGH SCHOOL – R100**

CHS, EHS, NHS 9, 10, 11

3.0 Credits

Kent Innovation High (KIH), located at 1655 East Beltline NE, is a project-based learning environment with a focus on technology. Students work in collaborative groups to solve real life problems, often with the involvement of community partners. A critical part of the KIH culture is student engagement and interaction. Students attend Kent Innovation High for core classes and then return to Forest Hills for their electives. Students attending KIH still participate in extra-curricular activities in Forest Hills. Kent Innovation High enrolls 100 students in each grade level, 9-12, from across Kent County. Generally, students enter KIH beginning 9<sup>th</sup> grade and remain through their senior year.

The student we feel will most benefit from such an environment will display the following attributes:

- The bright student who is just turned off
- Students who want more challenge, not more work
- The student who usually asks "why"?
- Students who are inquisitive, inclusive, and collaborative, they would work well in a team
- Students who have a hard time sitting still in a traditional class
- Students who demonstrate their knowledge by showing what they know, not reciting it on a traditional assessment
- Kinesthetic learners
- Students who are open-minded and willing to try new things

Students interested in attending Kent Innovation High should contact their counselor. KIH will arrange a family visit and a half-day shadow for students to experience the learning environment. For additional information, you may contact Cindy Urban, district liaison for students attending KIH at 493-8831 or Brandy Lovelady Mitchell at Kent Innovation High, 363-8010.



## KENT CAREER TECHNICAL CENTER – V340

CHS, EHS, NHS 11, 12

3.0 Credits

Prerequisite: Application and interview; see counselor for details.

The Kent Career Tech Center, located at 1655 East Beltline NE, is an educational service of the Kent Intermediate School District. KCTC enrolls more than 2,300 students from over 60 public and private high schools each year. The Center's 20+ programs are designed to prepare students for careers and advanced study, which ranges from college degrees to apprenticeships, technical training, and certifications. Students can earn free college credits in many of the programs. The Tech Center also offers business connections with nearly 300 area business people. These industry experts offer opportunities to students for job shadows, on-site work experiences and internships.

Programs within KCTC are grouped together in clusters of common occupational groups in order to maximize interaction and develop a core of common skills. Clustering serves the functions of a career exploration experience, multiple occupational preparations, job entry preparation and/or a prelude to higher education. Classes are designed around work environments and emulate real-world applications. Lab instruction emphasizes computers and technology.

Students interested in attending the Tech Center should see their high school counselor to schedule a program visit or call KCTC at (616) 364-8421 for additional information. Enrollment requests should be submitted to your counseling office by March 20th for the following fall enrollment.

Classes meet 5 days per week throughout the school year.

- **1<sup>st</sup> session:** 6:55 a.m. – 9:10 a.m.
- **2<sup>nd</sup> session:** 9:15 a.m. – 11:30 a.m.
- **3<sup>rd</sup> session:** 12:00 a.m. – 2:15 p.m.

- Students earn three credits per year for successful completion of course requirements. Most programs offer articulated and direct college credit as well.
- No tuition is charged.
- Round trip bus transportation between the high school and KCTC will be available.
- Main campus is located at 1655 East Beltline, Grand Rapids Michigan, with satellite campuses for specific programs at Gerald R Ford International Airport, GRCC's Applied Technology Center, The Downtown Market, and GVSU's Cook-DeVos Center downtown.
- For more information on individual programs go to: [www.thetechcenter.org](http://www.thetechcenter.org)

### Arts and Communications

- Graphic Communications

### Business, Management, Marketing & Technology

- Accounting Online
- Accounting Systems & Solutions
- Information Technology
- Entrepreneurship & Marketing

### Engineering/Manufacturing & Industrial Technology

- Applied Construction Technology
- Engineering Technology/Site Design Management
- Heating, Ventilation, Air conditioning & Refrigeration (HVACR)
- Precision Machining Technology
- Auto Collision Repair
- Automotive Technology
- Aviation Electronics
- Aviation Maintenance Technology
- Diesel & Equipment Technology
- Mechatronics
- Design Lab

### Health Sciences

- Exploring Health Careers
- Health Sciences Early College Academy (HSECA)

### Human Services

- Hospitality
- Criminal Justice

### Natural Resources & Agriscience

- Sustainable Agriscience

# High School Credit Equivalency by Tech Center Program

Academic credit is awarded by each student's local high school and is subject to local district policies.

## Arts & Communications

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Graphic Communications	1	.5	2	.5	1	1	1	1
3D Animation/Game Design	1	.5	1	1	1	1	1	1

## Business, Management, Marketing

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Accounting	1	1	1	.5	1	1	1	1
Information Technology	1	.5	1	.5	1	1	1	1
Entrepreneurship & Marketing	1	.5	1	.5	2	1	2	1

## Engineering, Manufacturing, Industrial Technology

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Applied Construction	2	1			2	1	2	1
Engineering & Architectural Design	2	1	1	.5	2	1	2	1
HVACR	1	.5			2	1	2	1
Full Mechatronics	1	1			1	1	1	1
Precision Machining	2	1			2	1	2	1

## Transportation

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Auto Collision	2	1			2	1	2	1
Automotive Technology	2	1	2	.5	2	1	2	1
Aviation Electronics	1	.5	2	.5	2	1	2	1
Aviation Maintenance Technology	1	.5	2	.5	2	1	2	1
Diesel & Equipment Technology	1	.5			2	1	2	1

## Health Sciences

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Certified Nursing Assistant (CNA)	1	.5	1	.5	1	1	1	1
Rehabilitation	1	.5	1	.5	1	1	1	1
Exploring Health Careers	1	.5	1	.5	1	1	1	1
Pharmacy Technician	1	.5	1	.5	1	1	1	1
Health Sciences Early College Academy	1	.5	1	.5	1	1	1	1

## Human Services

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Criminal Justice	1	.5	1	.5	2	1	2	1
Hospitality	1	.5	2	.5	1	1	1	1

## Agriscience

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Sustainable Agriscience	2	1	2	.5	2	1	2	1

**Note:** All the programs listed meet MMC VPAA and OLE requirements. Students completing these programs over the number of years indicated for Science and World Language may use this credit to replace the MMC required 2nd credit of World Language and the 3rd Science credit requirement, per MCL 380.1278a and MCL 380.1278b. **Contact KCTC counselors Gary Moline or Lara Roessler for more information.**

## Design Lab: 10th Grade Students

Students in Design Lab attend a full session at KCTC (2.25 hours). A portion of this class consists of an online course students select with the assistance of their sending school counselor that will meet an MMC or elective requirement. The courses available are: Geometry, Algebra II, Biology, Chemistry, Physics, and College and Career Preparation. Students complete the entire two semester course during their full year in Design Lab.

## INDEX BY DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
<b>ART DEPARTMENT</b>						
L900	Adaptive Arts	.50	9, 10, 11, 12	NH		12
L100	Introduction to Art	1.00	9, 10, 11, 12	CH. EH. NH	VPAA	12
L200	Art Survey	.50	9, 10, 11, 12	CH. EH. NH	VPAA	13
L211	Crafts/Functional Art 1	.50	9, 10, 11, 12	CH. EH. NH	VPAA	13
L212	Crafts/Functional Art 2	.50	9, 10, 11, 12	CH. EH. NH	VPAA	13
L221	Drawing & Painting 1	.50	9, 10, 11, 12	CH. EH. NH	VPAA	13
L222	Drawing & Painting 2	.50	10, 11, 12	CH. EH. NH	VPAA	13
L223	Drawing & Painting 3	.50	10, 11, 12	CH. EH. NH	VPAA	13
L224	Drawing & Painting 4	.50	10, 11, 12	CH. EH. NH	VPAA	13
L231	Sculpture & Ceramics 1	.50	9, 10, 11, 12	CH. EH. NH	VPAA	14
L232	Sculpture & Ceramics 2	.50	9, 10, 11, 12	CH. EH. NH	VPAA	14
L233	Sculpture & Ceramics 3	.50	10, 11, 12	CH	VPAA	14
L234	Sculpture & Ceramics 4	.50	10, 11, 12	CH	VPAA	14
L241	Photography & Graphic Design 1	.50	10, 11, 12	CH. NH	VPAA	14
L242	Photography & Graphic Design 2	.50	10, 11, 12	CH. NH	VPAA	14
L243	Photography & Graphic Design 3	.50	11, 12	CH. NH	VPAA	14
L244	Photography & Graphic Design 4	.50	11, 12	CH. NH	VPAA	14
L245	Digital Photography & Graphic Design 1	.50	10, 11, 12	EH	VPAA	15
L246	Digital Photography & Graphic Design 2	.50	10, 11, 12	EH	VPAA	15
L247	Digital Photography & Graphic Design 3	.50	10, 11, 12	EH	VPAA	15
L250	Computer Art & Design	.50	9, 10, 11, 12	EH	VPAA	15
L600	AP Studio Art	1.00	11, 12	CH. EH. NH	VPAA	15
<b>BUSINESS DEPARTMENT</b>						
G100	Introduction to Business	.50	9, 10, 11	CH. EH. NH		17
G140	Accounting	.50/sm 1.0/yr	9, 10, 11, 12	CH. EH. NH	4th yr Math	17
G145	Accounting 2	1.00	10, 11, 12	CH. EH. NH	4th yr Math	17
G170	Personal Finance	.5/sm;1/yr	9, 10, 11, 12	CH. EH. NH	4th yr Math	17
G120	Computer Info Systems 1	.50	9, 10, 11, 12	EH. NH		18
G125	Computer Info Systems 2	.50	9, 10, 11, 12	EH. NH		18
G520	Computer Science Pgm	.50	9, 10, 11, 12	NH	4th yr Math	18
G521	Tech Ninjas	.50/sm 1.0/yr	10, 11, 12	CH, EH, NH		18
G530	Information Technology	.50/sm 1.0/yr	10, 11, 12	EH	VPAA	18
G540	Computer Graphics/Game Design	.50/sm 1.0/yr	10, 11, 12	EH	4 <sup>th</sup> yr Math or VPAA	18
G620	AP Computer Science Programming	1.00	11, 12	CH	4th yr Math	18
G625	AP Computer Science Principles	1.00	9, 10, 11, 12	CH	4 <sup>th</sup> yr Math	18
G210	Marketing 1	.50	9 EH 10, 11, 12	CH. EH. NH	4th yr math or VPAA	19
G215	Marketing 2	.50	9 EH 10, 11, 12	CH. EH. NH	4th yr Math or VPAA	19
G217	Sports Marketing	.50	11, 12	CH, NH		19
G220	Advanced Marketing	1.00	11, 12	CH. EH. NH	4 <sup>th</sup> yr Math or VPAA	19
V310	Work Experience	.50	11, 12	CH. EH. NH		19
V410	Cooperative Education	1.00	11, 12	CH. EH. NH		19
<b>COMMUNICATION DEPARTMENT</b>						
A100	Communication	.50	9, 10, 11, 12	CH, EH, NH	VPAA	20
A120	Media Communication	.50	9, 10, 11, 12	CH, EH, NH	VPAA	20
A130	Competitive Speech & Drama	.50	9, 10, 11, 12	CH, NH	VPAA	20
A140	Strategic Debate	.50	9, 10, 11, 12	CH, NH	VPAA	20
A150	Theatre Arts 1	.50	9, 10, 11, 12	CH, EH, NH	VPAA	21

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
A155	Theatre Arts 2	.50	9, 10, 11, 12	CH, EH, NH	VPAA	21
A210	Musical Theatre	.50	9, 10, 11, 12	CH, EH, NH	VPAA	21
A215	Summer Stock	.50	9, 10, 11, 12	CH, EH, NH	VPAA	21
A250	Technical Theatre	.50	10, 11, 12	CH, EH, NH		21
A310	TV Broadcast Lab	1.00	10, 11, 12	CH, EH, NH	VPAA	21
A330	Film Projects	.50	11, 12	CH, EH, NH	VPAA	21
<b>ENGINEERING, MANUFACTURING, AND INDUSTRIAL TECHNOLOGY DEPARTMENT</b>						
I120	Architectural Rendering & Design	.50	9, 10, 11, 12	CH, EH, NH	4th yr Math or VPAA	22
I125	Advanced Architecture	1.00	9, 10, 11, 12	CH, EH, NH	4th yr Math or VPAA	22
I130	Engineering Graphics 1	.50	9, 10, 11, 12	CH, EH, NH	4th yr Math or VPAA	23
I132	Engineering Graphics 2	1.00	10, 11, 12	CH, EH, NH	4th yr Math or VPAA	23
I133	Engineering Graphics 3	1.00	10, 11, 12	CH, EH, NH	4th yr Math or VPAA	23
I100	Bench Woodworking	.50	9, 10, 11, 12	CH, EH, NH	VPAA	23
I200	Advanced Woodworking	1.00	10, 11, 12	CH, EH, NH	VPAA	23
M250	Gone Boarding	1.00	10, 11, 12	CH, EH, NH	VPAA, Phys Ed, or 4 <sup>th</sup> yr Math (choose 2)	23,32,38
I500	Robotics	.50	9, 10, 11, 12	CH, NH	4th yr Math	23
<b>ENGLISH LANGUAGE ARTS DEPARTMENT</b>						
B110	English 9	1.00	9	CH, EH, NH	ELA	25
B112	Biology/Literature Block	2.00	9	EH, NH	Biology/ELA	25
B115	Honors English 9	1.00	9	CH, EH, NH	ELA	25
B210	English 10	1.00	10	CH, EH, NH	ELA	25
B212	English 10/US History Block	2.00	10	CH, EH	ELA/US Hist	25
B215	Honors English 10	1.00	10	CH, EH, NH	ELA	25
B310	English 11	1.00	11	CH, EH, NH	ELA	26
B312	English 11/World Hist Block	2.00	11	CH, EH	ELA/Wld Hist	26
B611	AP English Language & Composition	1.00	11	CH, EH, NH	ELA	26
B402	Senior Classical Literature	.50	12	CH, EH, NH	ELA	26
B404	Senior Composition	.50	12	CH, EH, NH	ELA	26
B406	Senior Creative Writing	.50	12	CH, EH, NH	ELA	26
B407	Senior English Contemporary Literature	.50	12	EH	ELA	26
B409	Senior Literature	.50	12	CH, EH, NH	ELA	27
B410	Senior Reading & Writing	.50	12	CH, EH, NH	ELA	27
B412	Writing for Digital Media	.50	12	EH	ELA	27
B414	Senior English Seminar	.50	12	CH, EH, NH	ELA	27
B532	Literature & Cinema	.50	12	CH	ELA	27
B612	AP Literature & Composition	1.00	12	CH, EH, NH		27
B510	Yearbook	1.00	11, 12	CH, EH, NH	VPAA	27
B520	Writing for Publication	.50	9, 10, 11, 12	CH, EH, NH		28
B525	Advanced Writing for Publication	NH- .50 1.00	10, 11, 12	CH, EH, NH	VPAA	28
B800	English Learners (EL)	1.00	9, 10, 11, 12	CH, EH, NH	ELA CH only	28
<b>LIFE MANAGEMENT EDUCATION DEPARTMENT</b>						
K100	Introduction to Culinary Arts	.50	9, 10, 11, 12	NH	VPAA	29
K105	Advanced Culinary Arts	.50	9, 10, 11, 12	NH	VPAA	29
K120	Interior Design	.50	9, 10, 11, 12	NH	VPAA	29
K125	Advanced Interior Design	.50	9, 10, 11, 12	NH	VPAA	29
K210	Child Development & Parenting	.50	10, 11, 12	NH	VPAA	29
K215	Advanced Child Development & Parenting	.50	11, 12	NH	VPAA	29

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
<b>MATHEMATICS DEPARTMENT</b>						
E100	Pre-Algebra	1.00	9	NH		30
EC100	Algebra/Geometry 1	1.00	9	CH	.5 Alg/.5 Geo	30
E110	Algebra 1	1.00	9, 10, 11, 12	CH, EH, NH	Algebra 1	31
E150	Accelerated Algebra 1/Geometry	2.00	9	NH	Alg 1 & Geom	31
E200	Algebra/Geometry 2	1.00	10	CH	.5 Alg/.5 Geo	31
E210	Geometry	1.00	9, 10, 11, 12	CH, EH, NH	Geometry	31
E300	Concepts of Algebra 2	1.00	11, 12	CH, EH, NH	Algebra 2	31
E310	Algebra 2	1.00	10, 11, 12	CH, EH, NH	Algebra 2	31
E400	Concepts of Algebra 3	1.00	12	CH, EH	4th yr Math	31
E405	Algebra 3	1.00	12	NH	4th yr Math	31
E410	College Algebra	1.00	12	CH, EH, NH	4th yr Math	32
E415	Precalculus	1.00	11, 12	CH, EH, NH	4th yr Math	32
E600	AP Calculus AB	1.00	11, 12	EH, NH	4th yr Math	32
E610	AP Calculus BC	1.00	11, 12	CH, EH, NH	4th yr Math	32
E620	AP Statistics	1.00	11, 12	CH, EH, NH	4th yr Math	32
M250	Gone Boarding	1.00	10, 11, 12	CH, EH, NH	VPAA, Phys Ed, or 4 <sup>th</sup> yr Math (choose 2)	23,32,38
<b>MUSIC DEPARTMENT</b>						
J210	Concert Choir	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	34
J220	Women's Chorus	1.00	10, 11, 12	CH, NH	VPAA	34
J230	Chorale	1.00	10, 11, 12	CH, EH, NH	VPAA	35
J240	Central, Eastern, or Northern Singers	1.00	10, 11, 12	CH, EH, NH	VPAA	35
J310	Concert Orchestra	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	35
J320	Symphony Orchestra	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	35
J110	Concert Band	1.00	9, 10, 11, 12	CH	VPAA	35
J120	Symphonic Band	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	35
J130	Wind Ensemble	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	35
J112	Jazz Lab/Jazz Ensemble	1.00	9, 10, 11, 12	CH, EH, NH	VPAA	36
J122	Jazz Ensemble 2	1.00	10, 11, 12	CH	VPAA	36
J132	Advanced Jazz Ensemble	1.00	10, 11, 12	CH	VPAA	36
J410	Percussion Ensemble/Steel Band	1.00	9, 10, 11, 12	CH	VPAA	36
<b>PHYSICAL EDUCATION DEPARTMENT</b>						
M100	Fitness for Life 1	.50	9, 10	CH, EH, NH	Phys Ed	37
M300	Fitness Activities	.50	11, 12	CH, EH, NH	Phys Ed	37
M230	Strength & Conditioning 1	.50	10, 11, 12	CH, EH, NH	Phys Ed	37
M200	Health	.50	9, 10, 11, 12	CH, EH, NH	Health	37
M110	Fitness for Life 2	.50	9	CH, NH		38
M220	Lifetime/Team Sports	.50	10, 11, 12	CH, EH, NH		38
M235	Strength & Conditioning 2	.50	10, 11, 12	CH, EH, NH		38
M250	Gone Boarding	1.00	10, 11, 12	CH, EH, NH	VPAA, Phys Ed, or 4 <sup>th</sup> yr Math (choose 2)	23,32,38
M260	Yoga 1	.50	10, 11, 12	CH, EH		38
M265	Yoga 2/Pilates	.50	10, 11, 12	CH		38
M270	Movement Fitness	.50	10, 11, 12	NH		38
M280	Global Games	.50	10, 11, 12	CH, EH, NH		38
<b>SCIENCE DEPARTMENT</b>						
D105	Environmental Impacts	1.00	9, 10	CH, EH, NH	Sci Elective	39
D110	Biology	1.00	9, 10, 11, 12	CH, EH, NH	Biology	40
D112	Biology/Literature Block	2.00	9	EH, NH	Biology/ELA	40
D115	Honors Biology	1.00	9	CH, EH, NH	Biology	40
D210	Chemistry	1.00	10, 11, 12	CH, EH, NH	Chem/Physic	40

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
D215	Chemistry	1.00	10, 11, 12	CH, EH, NH	4th yr Math or Chem/Physic	40
D220	Physics	1.00	10, 11, 12	CH, EH, NH	Chem/Physic	40
D225	Physics	1.00	10, 11, 12	CH, EH, NH	4th yr Math or Chem/Physic	41
D415	Advanced Geology	1.00	11, 12	CH	Sci Elective	41
D420	Human Anatomy & Physiology	1.00	10, 11, 12	CH, EH, NH	Sci Elective	41
D510	Forensic Science	.50/sm 1.0/yr	10, 11, 12	CH, EH, NH	Sci Elective	41
D530	Environmental Science	.50	11, 12	CH, EH, NH	Sci Elective	41
D551	Intro to Scientific Research	1.00	10	CH, EH	Sci Elective	41
D552	Scientific Research in Practice	.50/sm 1.0/yr	11	CH	Sci Elective	42
D553	Independent Scientific Research Study	1.00	12	CH	Sci Elective	42
D610	AP Biology	2.00	11, 12	CH, EH, NH	Sci Elective	42
D620	AP Chemistry	2.00	11, 12	CH, EH, NH	4th yr Math or Sci Elective	42
D630	AP Environmental Science	1.00	11, 12	CH, EH, NH	Sci Elective	42
D640	AP Physics 1	1.00	10, 11, 12	NH	4th yr Math or Sci Elective	43
D642	AP Physics 2	1.00	11, 12	NH	4th yr Math or Sci Elective	43
D645	AP Physics C: Mechanics	1.00	11, 12	CH, EH	4 <sup>th</sup> yr Math or Sci Elective	43
	STEM Academy					44
<b>SOCIAL STUDIES DEPARTMENT</b>						
C100	Civics	.50	9	CH, EH, NH	Civics	46
C110	Economics	.50	9	CH, EH, NH	Economics	46
C101/C111	Civics & Economics for Spanish Immersion	1.00	11, 12	NH	Civics & Economics	46
C210	U.S. History	1.00	10	CH, EH, NH	US Hist/Geog	46
C211	US History for Spanish Immersion	1.00	10	NH	US Hist/Geog	46
C212	US History/English 10 Block	2.00	10	CH, EH	US Hist/ELA	46
C310	World History	1.00	11, 12	CH, EH, NH	Wld Hist/Geog	46
C311	World History for Spanish Immersion	1.00	9, 10, 11, 12	NH	Wld Hist/Geog	47
C312	World Hist/English 11 Block	2.00	11	CH, EH	Wld Hist/ELA	47
C610	AP U.S. History	1.00	10, 11, 12	CH, EH, NH	US Hist/Geog	47
C620	AP U.S. Gov't & Politics	.50	11, 12	CH, EH, NH	Civics	47
C630	AP World History	1.00	11, 12	CH, EH, NH	Wld Hist/Geog	47
C650	AP European History	1.00	11, 12	NH		47
C640	AP U.S. Gov't & Politics/ AP Comparative Gov't & Politics	1.00	11, 12	NH	Civics	47
C660	AP Macroeconomics	.50	11, 12	EH, NH	4th yr Math & Economics	48
C181	Rebuilding History	.50	9, 10, 11, 12	NH		48
C420	Honors International Relations/ Model UN	.50	9, 10, 11, 12	CH, EH, NH		48
C510	Social Psychology	.50	9, 10, 11, 12	CH		48
C514	Psychology	.50	11, 12	CH, EH, NH		48
C515	Advanced Psychology	.50	11, 12	CH, NH		48
C518	Sociology	.50	11, 12	CH, EH, NH		48
C520	History of Thought	.50	11, 12	CH, EH, NH		48
C532	History V. Hollywood	.50	11, 12	CH, EH, NH		49
C534	Comparative World Religions	.50	11, 12	CH, EH		49

<b>COURSE #</b>	<b>TITLE</b>	<b>CR</b>	<b>LEVEL AVAILABLE</b>	<b>SCHOOL OFFERED</b>	<b>REQ MET</b>	<b>PAGE</b>
C535	Global Issues for Spanish Immersion	.50	11, 12	NH		49
C538	History V. Hollywood for Spanish Immersion	.50	11, 12	NH		49
C614	AP Psychology	.50	11, 12	EH, NH		49
C665	AP Microeconomics	.50	11, 12	EH, NH	4th yr Math	49
<b>WORLD LANGUAGE DEPARTMENT</b>						
F105	French Language & Culture	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	50
F110	French 1	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	50
F210	French 2	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	51
F310	French 3	1.00	10, 11, 12	CH, EH, NH	World Lang	51
F410	French 4	1.00	11, 12	CH, EH	World Lang	51
F610	AP French	1.00	11, 12	CH, EH, NH	World Lang	51
F120	Spanish 1	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	51
F220	Spanish 2	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	51
F320	Spanish 3	1.00	10, 11, 12	CH, EH, NH	World Lang	51
F420	Spanish 4	1.00	11, 12	CH, EH, NH	World Lang	51
F620	AP Spanish Language and Culture	1.00	11, 12	CH, EH, NH	World Lang	51
F621	AP Spanish Literature	1.00	11, 12	CH, EH, NH	World Lang	52
F130	American Sign Language 1	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	52
F230	American Sign Language 2	1.00	10, 11, 12	CH, EH, NH	World Lang	52
F330	American Sign Language 3	1.00	11, 12	CH, EH, NH	World Lang	52
F430	American Sign Language 4	1.00	12	CH, EH, NH	World Lang	52
F140	Chinese 1	1.00	9, 10, 11, 12	CH, EH, NH	World Lang	52
F240	Chinese 2	1.00	10, 11, 12	CH, EH, NH	World Lang	52
F340	Chinese 3	1.00	11, 12	CH, EH, NH	World Lang	52
F440	Chinese 4	1.00	11, 12	CH, EH, NH	World Lang	52
F221	Spanish Immersion 9	1.00	9	NH	World Lang	53
F321	Spanish Immersion 10	1.00	10	NH	World Lang	53
F421	Spanish Immersion 11	1.00	11	NH	World Lang	53
F521	Spanish Immersion 12	1.00	12	NH	World Lang	53
<b>SPECIAL EDUCATION DEPARTMENT</b>						
N900	Academic Strategies	1.00	9, 10, 11, 12	CH, EH, NH		54
B910	Reading Strategies	1.00	9, 10, 11, 12	CH, EH, NH		54
V330	Kent Transition Center	3.00	11, 12	CH, EH, NH		54
<b>SPECIAL OPPORTUNITIES DEPARTMENT</b>						
N610	AP Seminar	1.0	11	CH		55
N550	Leadership	.50/sm	10, 11, 12	EH		55
N100	Tools for Success	.50	9, 10, 11, 12	CH, EH, NH		56
N430	Teacher Cadet	.50/sm 1.0/yr	11, 12	CH, EH		56
N435	Educational Experience Opportunity	.50/sm 1.0/yr	11, 12	NH		56
N450	Senior Projects	.50	12	EH, NH		56
N460	Peer-to-Peer	.50	9, 10, 11, 12	EH		56
N299-300	Dual Enrollment Courses		9, 10, 11, 12	CH, EH, NH		56
V310	Work Experience	.50	11, 12	CH, EH, NH		56
V410	Cooperative Education	1.00	11, 12	CH, EH, NH		56
N700	Independent Study	.50	12	CH, EH, NH		57
N200	On-Line Courses, including Michigan Virtual School	.50	9, 10, 11, 12	CH, EH, NH		57
	AP Capstone Program			CH		58
	Kent ISD Programs			CH, EH, NH		59

## FIVE-YEAR COURSE SELECTION PLAN

The Five-Year Course Selection Plan should reflect career goals and post-secondary plans as indicated on the student's Educational Developmental Plan (EDP).

### 8<sup>TH</sup> GRADE

#### 1<sup>st</sup> Semester

- (1) Language Arts
- (2) Mathematics
- (3) Foundations of Science\*
- (4) Social Studies
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_

#### 2<sup>nd</sup> Semester

- (1) Language Arts
- (2) Mathematics
- (3) Foundations of Science\*
- (4) Social Studies
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_

Elective credit choices: See Middle School Course Description Book

\* High school credit course

### 9<sup>TH</sup> GRADE

#### 1<sup>st</sup> Semester

- (1) English 9
- (2) Mathematics
- (3) Science
- (4) Civics
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_

#### 2<sup>nd</sup> Semester

- (1) English 9
- (2) Mathematics
- (3) Science
- (4) Economics
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_

Required credit choices: Phys Ed, Health, Visual, Performing and Applied Arts

Elective credit choices: See pages 25-68

### 10<sup>TH</sup> GRADE

#### 1<sup>st</sup> Semester

- (1) English 10
- (2) Mathematics
- (3) Science
- (4) U.S. History/Geography
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_

#### 2<sup>nd</sup> Semester

- (1) English 10
- (2) Mathematics
- (3) Science
- (4) U.S. History/Geography
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_

Required credit choices: Phys Ed, Health, Visual, Performing and Applied Arts

Elective credit choices: See pages 25-68

### 11<sup>TH</sup> GRADE

#### 1<sup>st</sup> Semester

- (1) English 11
- (2) Mathematics
- (3) Science (unless earned HS credit in 8<sup>th</sup> grade)
- (4) World History/Geography
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_
- (7) \_\_\_\_\_ (optional)

#### 2<sup>nd</sup> Semester

- (1) English 11
- (2) Mathematics
- (3) Science (unless earned HS credit in 8<sup>th</sup> grade)
- (4) World History/Geography
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_
- (7) \_\_\_\_\_ (optional)

Required credit choices: Phys Ed, Health, Visual, Performing and Applied Arts, Elective credit choices: See pages 25-68

### 12<sup>TH</sup> GRADE

#### 1<sup>st</sup> Semester

- (1) English 12 Electives
- (2) Mathematics
- (3) \_\_\_\_\_
- (4) \_\_\_\_\_
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_
- (7) \_\_\_\_\_ (optional)

#### 2<sup>nd</sup> Semester

- (1) English 12 Electives
- (2) Mathematics
- (3) \_\_\_\_\_
- (4) \_\_\_\_\_
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_
- (7) \_\_\_\_\_ (optional)

Required credit choices: Phys Ed, Health, Visual, Performing and Applied Arts,

Elective credit choices: See pages 25-68

Student name \_\_\_\_\_

DATE \_\_\_\_\_

Parent signature \_\_\_\_\_

DATE \_\_\_\_\_



## NOTICE OF NONDISCRIMINATION POLICY

It is the policy of the Forest Hills Public School District that no person shall on the basis of race, age, color, religion, national origin, sex or handicap be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program of the District, including employment.

Any questions concerning Title IX of the Educational Amendments of 1972, including athletic issues, which prohibits discrimination on the basis of sex, or inquiries related to Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap, should be directed to:

**Ms. Christine Annese**  
Assistant Superintendent of Human Resources  
Forest Hills Public Schools  
6590 Cascade Road, SE  
Grand Rapids, Michigan 49546  
Telephone: (616) 493-8805