



Forest Hills Public Schools
High School Course Description Guide
2020-2021
Central | Eastern | Northern



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*

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***This document is subject to revision. The most updated edition may be found at www.fhps.net.**

TABLE OF CONTENTS

TOPIC	PAGE
Introductory Information	
Forest Hills Graduation Requirements	5
Earning Credit	6
International Student Credits	6
Graduating from Forest Hills Public Schools	7
Testing Out Guidelines	7
Self-Paid Courses	7
The Personal Curriculum	8
Advanced Placement (AP) Course Opportunities and GPA Information	8
Blended Learning	8
Remote Learning	8
Spanish Immersion Endorsement on Transcript	8
Alternative Education	8
Scheduling Process	9
Michigan Seal of Biliteracy	10
National Collegiate Athletic Association (NCAA)	11
Art Department	15
Business Department	20
Communication Department	24
Engineering, Manufacturing, and Industrial Technology Department	27
English and Language Arts Department	30
Life Management Education Department	35
Mathematics Department	37
Music Department	42
Physical Education Department	46
Science Department	48
STEM Academy	54
Social Studies Department	55
World Language Department	61
Special Education Department	67
Special Opportunities	69
Index by Department	76

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
English Language Arts (4 credits)	<ul style="list-style-type: none"> 1 credit in 9th, 10th, 11th, and 12th grade All credits aligned to state content expectations 	Sequence and delivery up to district. ✓ No modification except for students with an Individualized Education Program (IEP) and for transfer students who have completed 2 years of high school
Mathematics (4 credits)	<ul style="list-style-type: none"> Algebra 1 Geometry 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>) 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 1 additional math or math-related credit or a course in financial literacy 	✓ Complete at least 3.5 math or math-related credits ✓ Complete a math or math-related credit in the final 2 years ✓ Algebra 2 may be modified if: <ul style="list-style-type: none"> Student completes the same content as 1 semester of Algebra 2 OR 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 Completes 1 semester of statistics, functions and data analysis or technical math
Science (3 credits)	Requirements for the class of 2021, 2022, 2023: <ul style="list-style-type: none"> Biology Chemistry, Physics, Anatomy, or Agricultural Science OR curriculum that provides the same content as the Chemistry or Physics standards, as determined by the Department Third credit may be fulfilled by completing a Department approved Computer Science program or curriculum or CTE program or curriculum (regardless of content) Requirements beginning with the class of 2024: <ul style="list-style-type: none"> 1 full year of biology 1 full year of physical science (semester of chemistry and semester of physics) 1 full year of environmental science <ul style="list-style-type: none"> Third credit may be fulfilled by completing a Department approved Computer Science program or curriculum or CTE program or curriculum (regardless of content) 	✓ No modification except for students with an IEP and transfer students who have completed 2 years of high school
Social Studies (3 credits)	<ul style="list-style-type: none"> ½ Civics credit ½ Economics credit 1 U.S. History and Geography credit 1 World History and Geography credit All credits aligned to state content expectations 	✓ No modification of Civics ✓ Minimum of 2 social studies credits prior to modification ✓ 1 social studies credit (other than Civics) can be exchanged for an additional English language arts, math, science, or world languages credit, or department-approved formal career and technical education program ✓ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school
Physical Education and Health (1 credit)	<ul style="list-style-type: none"> Credit aligned to state guidelines 	✓ Credit can be exchanged for an additional English language arts, math, science, or world languages credit, or department-approved formal career and technical education program ✓ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school
Visual, Performing, Applied Arts (1 credit)	<ul style="list-style-type: none"> Credit aligned to state guidelines 	✓ Credit can be exchanged for an additional English language arts, math, science, or world languages credit, or department-approved formal career and technical education program ✓ Additional modifications allowed for students with an IEP and transfer students who have completed 2 years of high school
World Language (2 credits)	<ul style="list-style-type: none"> Credits are earned in grades K-12 (course content must be age appropriate – not H.S. equivalent) OR An equivalent learning experience in grades K-12 Pupils graduating in 2015-16 through 2019-20 may substitute 1 credit in CTE or Visual Performing Arts 	✓ No modification except for transfer students who have completed 2 years of high school
Online Learning Experience	<ul style="list-style-type: none"> Online course, learning experience, or experience is incorporated into one or more required credits 	✓ No modification except for transfer students who have completed 2 years of high school
Electives (4.5 credits)		

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.

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.

Students are encouraged to repeat a course in which they have not demonstrated a satisfactory level of achievement. The following policy will apply for courses repeated at Forest Hills schools, including Summer Academy:

- If a student repeats a course (the course must be identical in nature), an "/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.

INTERNATIONAL STUDENT CREDITS

Core courses that would typically equate to Michigan Merit Curriculum Courses (i.e., math, language arts, science, social studies, health/PE) may be given equivalent credit on transcript. Courses that do not equate to Michigan Merit Curriculum Courses (i.e., electives) will be given a grade of CR on the transcript.

Where course content/curriculum cannot be verified, a student may need to demonstrate proficiency to earn credit or mastery to determine placement.

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 may not be issued or graduation ceremonies held until May.
- Only students achieving the required 22.5 credits (including MMC credits) will be permitted to participate in commencement exercises.
- Students should see their counselor or building principal with any questions on graduation requirements.

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 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.

SELF-PAID COURSES

Students wishing to enroll in a course outside of the regular school day or outside of the regular school calendar will need to complete the Self Paid Course Approval Form prior to enrollment. Courses will be placed on the transcript if pre-approved with the form on file. Self-paid courses taken without prior authorization will not be included on the transcript. Only courses meeting an MMC Core requirement will be recorded as part of the student's GPA and credit total on the transcript. Courses not fulfilling an MMC Core requirement may be placed on the transcript, but will not be part of the calculated GPA or credit total.

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.

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?

[MDE Personal Curriculum Link](#)

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.

REMOTE LEARNING

All traditional/seated courses listed in this course catalog are allowed to be adapted for delivery in a virtual or blended format by Forest Hills Public Schools.

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.

SCHEDULING 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 family. 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.

- 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.



Michigan Seal of Biliteracy

The Michigan Seal of Biliteracy has been created to recognize high school graduates who exhibit language proficiency in English and at least one additional world language. The Seal may be awarded to any student receiving a high school diploma, a high school certificate of completion or a high school equivalency certificate and who has demonstrated Intermediate High proficiency on acceptable world language assessments and met the English Language Arts requirements for graduation or demonstrated proficiency on a validated test of proficiency for English Learners. The Seal has been created to encourage students to study world languages and embrace their native and heritage languages. The Seal will provide employers with a way to identify individuals with strong language and biliteracy skills. The Seal may serve as an additional tool for colleges and universities to recognize applicants' language abilities for admission and placement.

The Michigan Seal of Biliteracy requires students to meet the following criteria:

- Meet graduation requirements
- Demonstrate Intermediate High proficiency on world language assessments through one of the approved commercial assessments, which include AP and Avant STAMP.

Proficiency can be demonstrated through either of the [Acceptable Commercial Language Assessments](#) approved by the Michigan Department of Education. Students are responsible for submitting official documentation to meet the proficiency requirement.

FHPS will facilitate an opportunity for interested students to take the Avant STAMP proficiency assessment in early May. Students who are interested in participating must indicate so in the application form and are responsible for the cost of the test. FHPS students can apply for the Seal during the second semester of their junior year through the end of their senior year by filling out and submitting the electronic [FHPS Application for Michigan Seal of Biliteracy](#) no later than the last day of the current school year.

Applications for less common languages for which a commercial assessment is not available will be reviewed by the FHPS Seal of Biliteracy Committee to determine the most accurate and appropriate method to measure proficiency.

NCAA PAGE 1

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NCAA PAGE 2

See PDF insert

NCAA PAGE 3

See PDF insert

NCAA PAGE 4

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ART DEPARTMENT

CENTRAL HIGH ART OFFERINGS

COURSE #	TITLE	CR	LEVEL AVAILABLE	MEETS MMC REQS	PREREQUISITE
L200	Art Survey	0.5	9, 10, 11, 12	VPAA	
L221	Drawing & Painting 1	0.5	9, 10, 11, 12	VPAA	
L222	Drawing & Painting 2	0.5	10, 11, 12	VPAA	Drawing and Painting 1
L223	Drawing & Painting 3	0.5	10, 11, 12	VPAA	Drawing and Painting 2
L224	Drawing & Painting 4	0.5	10, 11, 12	VPAA	Drawing and Painting 3
L231	Sculpture & Ceramics 1	0.5	9, 10, 11, 12	VPAA	
L232	Sculpture & Ceramics 2	0.5	9, 10, 11, 12	VPAA	Sculpture & Ceramics 1
L233	Sculpture & Ceramics 3	0.5	10, 11, 12	VPAA	Sculpture & Ceramics 2
L234	Sculpture & Ceramics 4	0.5	10, 11, 12	VPAA	Sculpture & Ceramics 3
L252	Digital Media	0.5	9, 10, 11, 12	VPAA	
L600	AP Studio Art	1.0	11, 12	VPAA	Introduction to Art or Art Survey required; Drawing & Painting recommended

EASTERN HIGH ART OFFERINGS

COURSE #	TITLE	CR	LEVEL AVAILABLE	MEETS MMC REQS	PREREQUISITE
L110	Art 1	1.0	9,10,11,12	VPAA	
L120	Art 2	.5	10, 11, 12	VPAA	Art 1
L130	Art 3	.5	11, 12	VPAA	Art 2
L140	Art 4	.5	12	VPAA	Art 3
L600	AP Studio Art	1	11, 12	VPAA	Art 1

NORTHERN HIGH ART OFFERINGS

COURSE #	TITLE	CR	LEVEL AVAILABLE	MEETS MMC REQS	PREREQUISITE
L900	Adaptive Arts	.5 or 1.0	9, 10, 11, 12	VPAA	
L110	Art 1	.5 or 1.0	9,10,11,12	VPAA	
L120	Art 2	.5 or 1.0	10, 11, 12	VPAA	Art 1
L130	Art 3	.5 or 1.0	11, 12	VPAA	Art 2
L140	Art 4	.5 or 1.0	12	VPAA	Art 3
L400	Makerspace	.5 or 1.0	9, 10, 11, 12	VPAA	
L410	Digital Clay	.5 or 1.0	9, 10, 11, 12	VPAA	
L600	AP Studio Art	1	11, 12	VPAA	Art 1

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

ART COURSES

ADAPTIVE ARTS – L900

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

ART 1 – L110

EHS, NHS / 9, 10, 11, 12 / .5/semester; 1.0/year Credit

The Art 1-4 program provides students with opportunities to personalize their learning within the Michigan Academic Standards for Visual Arts. These art classes are designed to allow students the greatest creative freedom while exploring the visual arts, in an "Open Art Room" format. Each section is more advanced than the one before it, but offers the same flexibility. Students can work with their choice of available materials throughout the course of the semester, including ceramics, painting, photography, or digital media, for example. After an introduction to chosen materials, students have the opportunity to branch out and work with others using different materials and approaches. Concepts, vocabulary, and art history will be built into the projects and grades will be based on completion of all assigned work, Visual Journals, quizzes, and an exam.

ART 2 – L120

EHS, NHS/ 10, 11, 12 / .5/semester; 1.0/year Credit

Prerequisite: Art 1

The Art 1-4 program provides students with opportunities to personalize their learning within the Michigan Academic Standards for Visual Arts. These art classes are designed to allow students the greatest creative freedom while exploring the visual arts, in an "Open Art Room" format. Each section is more advanced than the one before it, but offers the same flexibility. Students can work with their choice of available materials throughout the course of the semester, including ceramics, painting, photography, or digital media, for example. After an introduction to chosen materials, students have the opportunity to branch out and work with others using different materials and approaches. Concepts, vocabulary, and art history will be built into the projects and grades will be based on completion of all assigned work, Visual Journals, quizzes, and an exam.

ART 3 – L130

EHS, NHS / 11, 12 / .5/semester; 1.0/year Credit

Prerequisite: Art 2

The Art 1-4 program provides students with opportunities to personalize their learning within the Michigan Academic Standards for Visual Arts. These art classes are designed to allow students the greatest creative freedom while exploring the visual arts, in an "Open Art Room" format. Each section is more advanced than the one before it, but offers the same flexibility. Students can work with their choice of available materials throughout the course of the semester, including ceramics, painting, photography, or digital media, for example. After an introduction to chosen materials, students have the opportunity to branch out and work with others using different materials and approaches. Concepts, vocabulary, and art history will be built into the projects and grades will be based on completion of all assigned work, Visual Journals, quizzes, and an exam.

ART 4 – L140

EHS, NHS / 12 / .5/semester; 1.0/year Credit

Prerequisite: Art 3

The Art 1-4 program provides students with opportunities to personalize their learning within the Michigan Academic Standards for Visual Arts. These art classes are designed to allow students the greatest creative freedom while exploring the visual arts, in an “Open Art Room” format. Each section is more advanced than the one before it, but offers the same flexibility. Students can work with their choice of available materials throughout the course of the semester, including ceramics, painting, photography, or digital media, for example. After an introduction to chosen materials, students have the opportunity to branch out and work with others using different materials and approaches. Concepts, vocabulary, and art history will be built into the projects and grades will be based on completion of all assigned work, Visual Journals, quizzes, and an exam.

ART SURVEY – L200

CHS / 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.

DRAWING AND PAINTING 1 – L221

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

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 / 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 / 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 / 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 / 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 / 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 / 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.**

DIGITAL MEDIA – L252

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

Digital Media is a computer-based art class designed for students interested in Graphic Design and Digital Illustration. Throughout its multi-level options, students will have the opportunity to progress through a number of high-caliber programs used in professional industries internationally in the pursuit of creating high-quality artworks and designs. Projects are made in emulation of real-world fields such as animation & character design, branding & marketing, etc.

MAKERSPACE: DESIGN THINKING: 101 – L400A, L400B

NHS / 9, 10, 11, 12 / .5/semester; 1.0/year Credit

This course will provide powerful contexts and opportunities for students to learn and develop new skills in the areas of Crafts, Industrial Arts, and Engineering. Makerspace learning empowers students, helping them shift from being passive consumers of information and products to active creators and innovators. The course will focus on fostering student curiosity, tinkering, and interactive learning, which in turn leads to better thinking through better questioning.

DIGITAL CLAY, ILLUSTRATION AND CERAMICS – L410A, L410B

NHS / 9, 10, 11, 12 / .5/semester; 1.0/year Credit

This course combines both Ceramics and Visual Communications Design to offer an option centered on the growing need for creative thinkers. Students will be engaged in hands-on experiences that combine the art of ceramics and pottery with the fundamental processes of artistic expression through the exploration of the purposeful arrangement of images, symbols and text to communicate a message. The course will also provide instruction in the process of responding to their own art and that of others including master designers through analysis, critique, and interpretation for the purpose of reflecting on and refining work.

AP STUDIO ART – L600

CHS, EHS / 11, 12 / 1.0 Credit

Prerequisite: CH - Introduction to Art or Art Survey; Drawing and Painting 1 is recommended**EH/NH – ART 1**

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
G100	Introduction to Business	.5	9, 10, 11, 12	CH, EH, NH	VPAA	
G140	Accounting	.5/semester(CH,NH) 1.0/year	9, 10, 11, 12	CH, NH	4th year Math	
G145	Accounting 2	1.0	10, 11, 12	CH, NH	4th year Math	Accounting
G170	Personal Finance	5/semester(CH,NH) 1.0/year	9, 10, 11, 12	CH, EH, NH	4th year Math	
G120	Computer Info Systems 1	.5	9, 10, 11, 12	NH		
G125	Computer Info Systems 2	.5	9, 10, 11, 12	NH		
G540	Computer Graphics/Game Design	.5/semester 1.0/year	10, 11, 12	EH	4th year Math	Computer Info Systems 1 and teacher approval
G620	AP Computer Science Programming A	1.0	11, 12	CH		Computer Science Programming & Algebra 1
G625	AP Computer Science Principles	1.0	9, 10, 11, 12	CH, EH, NH	4th year Math	
G210	Marketing 1	.5	9 EH 10, 11, 12	CH, EH	4th year Math or VPAA	
G215	Marketing 2	.5	9 EH 10, 11, 12	CH, EH	4th year Math or VPAA	Marketing 1
G218	Sports Business Management	.5	11, 12	CH, NH	VPAA	Intro to Business
G220	Advanced Marketing	1.0	11, 12	CH, EH	4th year Math or VPAA	Marketing 1 & 2, application, and instructor approval
V310	Work Experience	.5/semester 1.0/year	11, 12	CH, EH, NH		
V410	Cooperative Education	1.0/semester	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 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/semester (CHS, NHS); 1.0/year 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 4th-year math-related course.** College credit available through Davenport and GRCC. This course may be taken 2 semesters for 1.0 credit.

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 4th-year math-related course.** College credit available through Davenport and GRCC.

PERSONAL FINANCE – G170

CHS, EHS, NHS / 9, 10, 11, 12 / .5/semester (CHS, NHS); 1.0/year 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 4th-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.

COMPUTER INFORMATION SYSTEM COURSES

COMPUTER INFORMATION SYSTEMS 1 (CIS 1) – G120

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 requirement. College credit available through Davenport and GRCC if you take *both* CIS 1 & 2.

COMPUTER INFORMATION SYSTEMS 2 (CIS 2) – G125

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 GRAPHICS/GAME DESIGN – G540

EHS / 10, 11, 12 / .5/semester

Prerequisites: Successful completion of CIS 1

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 requirement. **May qualify as a 4th-year math-related course.** This course may be taken 2 semesters for 1.0 credit.

AP COMPUTER SCIENCE PROGRAMMING A – 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 4th-year math-related course.

AP COMPUTER SCIENCE PRINCIPLES – G625

CHS, EHS, NHS / 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 / 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 4th-year math-related course.** College credit available through Davenport (if both Marketing 1 and 2 are taken) and GRCC.

MARKETING 2 – G215

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

Prerequisite: Marketing 1

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 4th-year math-related course.** College credit available through Davenport (if both Marketing 1 and 2 are taken) and GRCC.

SPORTS BUSINESS MANAGEMENT – G218

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 / 11, 12 / 1.0 Credit

Prerequisite: Marketing 1 and 2, application, instructor approval

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 4th-year math-related course.**

WORK EXPERIENCE – V310

CHS, EHS, NHS / 11, 12 / .5/semester; 1.0/year 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/semester 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	.5	9, 10, 11, 12	CH	VPAA	
A120	Media Communication	.5	9, 10, 11, 12	CH, EH, NH	VPAA	
A140	Strategic Debate	.5	9, 10, 11, 12	CH	VPAA	
A150	Theatre Arts 1	.5	9, 10, 11, 12	CH, EH, NH	VPAA	
A155	Theatre Arts 2	.5	9, 10, 11, 12	CH, EH, NH	VPAA	Theatre Arts I
A210	Musical Theatre	.5	9, 10, 11, 12	NH	VPAA	
A215	Summer Stock	.5	9, 10, 11, 12	CH, EH, NH	VPAA	
A250	Technical Theatre	.5	10, 11, 12	EH, NH		
A310	TV Broadcast Lab	1.0	10, 11, 12	CH, EH, NH	VPAA	Theatre Arts 1 (EH only) or Media Communications
A330	Film Projects	.5	11, 12	CH, NH	VPAA	

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

COMMUNICATION COURSES

COMMUNICATION – A100

CHS / 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.

STRATEGIC DEBATE – A140

CHS / 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 preside over tournaments. 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

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

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 9th 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 enjoylearning.com or by calling 493-8950.

TECHNICAL THEATRE – A250

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: Theatre Arts 1 or Media Communications

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, 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
I120	Architectural Rendering & Design	.5	9, 10, 11, 12	CH, EH, NH	VPAA or 4th year Math	
I125	Advanced Architecture	.5 (EH) 1.0 (CH, NH)	9, 10, 11, 12	CH, EH, NH	VPAA or 4th year Math	Architectural Rendering & Design
I130	Engineering Graphics 1	.5	9, 10, 11, 12	CH, EH, NH	VPAA or 4th year Math	
I132	Engineering Graphics 2	.5 (EH) 1.0 (CH, NH)	10, 11, 12	CH, EH, NH	VPAA or 4th year Math	Architectural Rendering & Design or Engineering Graphics 1
I133	Engineering Graphics 3	1.0	10, 11, 12	CH, EH, NH	VPAA or 4th year Math	Architectural Rendering & Design or Engineering Graphics 2
I100	Bench Woodworking	.5	9, 10, 11, 12	CH, EH, NH	VPAA	
I105	Advanced Woodworking	.5/semester 1.0/year	10, 11, 12	CH, EH, NH	VPAA	Bench Woodworking
L400A, L400B	Makerspace: Design Thinking: 101	.5/semester 1.0/year	9, 10, 11, 12	NH	VPAA	
L410A, L410B	Digital Clay, Illustration and Ceramics	.5/semester 1.0/year	9, 10, 11, 12	NH	VPAA	
I500	Robotics	.5	9, 10, 11, 12	NH	4th year 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

ARCHITECTURAL RENDERING AND DESIGN – I120

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

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. **May qualify as a 4th-year math-related course.**

ADVANCED ARCHITECTURE – I125

CHS, EHS, NHS / 9, 10, 11, 12 / 1.0 Credit (.5 credit EHS or instructor permission)

Prerequisite: Architectural Rendering and Design

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.

May qualify as a 4th-year math-related course.

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 4th-year math-related course.**

ENGINEERING GRAPHICS 2 – I132

CHS, EHS, NHS / 10, 11, 12 / 1.0 Credit (.5 credit EHS or 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 4th-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 4th-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 – I105

CHS, EHS, NHS / 10, 11, 12 / 1.0 Credit (.5 semester 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.**

MAKERSPACE: DESIGN THINKING: 101 – L400A, L400B

NHS / 9, 10, 11, 12 / .5/semester; 1.0/year Credit

This course will provide powerful contexts and opportunities for students to learn and develop new skills in the areas of Crafts, Industrial Arts, and Engineering. Makerspace learning empowers students, helping them shift from being passive consumers of information and products to active creators and innovators. The course will focus on fostering student curiosity, tinkering, and interactive learning, which in turn leads to better thinking through better questioning.

DIGITAL CLAY, ILLUSTRATION AND CERAMICS – L410A, L410B

NHS / 9, 10, 11, 12 / .5/semester; 1.0/year Credit

This course will provide powerful contexts and opportunities for students to learn and develop new skills in the areas of Crafts, Industrial Arts, and Engineering. Makerspace learning empowers students, helping them shift from being passive consumers of information and products to active creators and innovators. The course will focus on fostering student curiosity, tinkering, and interactive learning, which in turn leads to better thinking through better questioning.

ROBOTICS – I500

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 4th-year math-related course.**

ENGLISH AND LANGUAGE ARTS DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
B110	English 9	1.0	9	CH, EH, NH	ELA	
B115	Honors English 9	1.0	9	CH, EH, NH	ELA	
B210	English 10	1.0	10	CH, EH, NH	ELA	
B212	English 10/US History Block	2.0	10	CH	ELA/US History	
B215	Honors English 10	1.0	10	CH, EH, NH	ELA	
B310	English 11	1.0	11	CH, EH, NH	ELA	
B611	AP English Language & Composition	1.0	11	CH, EH, NH	ELA	Summer reading before the course begins in the fall is required
B402	Senior Classical Literature	.5	12	CH, EH, NH	ELA	
B404	Senior Composition	.5	12	CH, EH, NH	ELA	
B406	Senior Creative Writing	.5	12	CH, EH, NH	ELA	
B407	Senior Contemporary Literature	.5	12	EH	ELA	
B409	Senior Literature	.5	12	NH	ELA	
B410	Senior Reading & Writing	.5	12	CH, EH, NH	ELA	
B420	Senior English	.5	12	CH, EH, NH	ELA	
B532	Literature & Cinema	.5	12	CH	ELA	
B612	AP Literature & Composition	1.0	12	CH, EH, NH	ELA	Summer reading assignments required and due when class begins
B510	Yearbook	1.0	11, 12	CH, EH, NH	VPAA	Application and/or instructor approval
B520	Writing for Publication	.5	9, 10, 11, 12	CH, EH, NH	VPAA (CHS)	
B525	Advanced Writing for Publication	NH, EH - .5 CH 1.0	10, 11, 12	CH, EH, NH	VPAA	Application, writing sample, and instructor approval
B800	English Learners (EL)	1.0	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.

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

NINTH 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.

HONORS ENGLISH 9 – B115

CHS, EHS, NHS / 9 / 1.0 Credit

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.

TENTH 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 / 10 / 1.0 Credit ELA & 1.0 Credit US History

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

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

ELEVENTH 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.

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.

TWELFTH 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

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.

SENIOR ENGLISH – B420

CHS, EHS, NHS / 12 / .5 Credit

This course offers students an opportunity to explore writing and language as it relates to potential employment or post-secondary studies. Writing will reflect students' ability to assume a leadership role in decision-making related to their own future. Key questions in this course include: Who am I? Where am I going? and What will I need to get there? These questions are explored through narrative, expository, argumentative, and research writing.

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. **Please note: Literature & Cinema is not an NCAA approved course.**

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/or 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: Application, writing sample, and/or 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 REQS	PREREQUISITE
K100	Introduction to Culinary Arts	.5	9, 10, 11, 12	NH	VPAAs	
K105	Advanced Culinary Arts	.5	9, 10, 11, 12	NH	VPAAs	Introduction to Culinary Arts
K120	Interior Design	.5	9, 10, 11, 12	NH	VPAAs	
K125	Advanced Interior Design	.5	9, 10, 11, 12	NH	VPAAs	Interior Design
K175	Fashion Design	.5	9, 10, 11, 12	NH		
K210	Child Development & Parenting	.5	10, 11, 12	NH	VPAAs	
K215	Advanced Child Development & Parenting	.5	11, 12	NH	VPAAs	Child Development & Parenting

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

LIFE MANAGEMENT EDUCATION DEPARTMENT

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.**

FASHION DESIGN – K175

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

Fashion Design class focuses in on the principles and elements of design, fashion history, fibers and fabrics, clothing construction, equipment and safety. During the semester, students will construct different types of clothing using creative, technical skills and a variety of techniques.

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 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	1.0	9	NH		Teacher recommendation
EC100	Algebra/Geometry 1	1.0	9	CH, EH	.5 Algebra/.5 Geometry	Teacher recommendation
E110	Algebra 1	1.0	9, 10, 11, 12	CH, EH, NH	Algebra 1	
E150	Accelerated Algebra/Geometry	2.0	9	NH	Algebra 1 & Geometry	Teacher recommendation
E200	Algebra/Geometry 2	1.0	10	CH, EH	.5 Algebra/.5 Geo	Teacher recommendation
E210	Geometry	1.0	9, 10, 11, 12	CH, EH, NH	Geometry	Successful completion of Algebra 1
E300	Concepts of Algebra 2	1.0	11, 12	CH, EH, NH	Algebra 2	Teacher recommendation or C or lower in Algebra 1 & Geometry
E310	Algebra 2	1.0	10, 11, 12	CH, EH, NH	Algebra 2	C or better in Algebra 1 & Geometry recommended
E400	Concepts of Algebra 3	1.0	11, 12	CH		Concepts of Algebra 2
E405	Algebra 3	1.0	12	NH	4 th year Math	Successful completion of Concepts Algebra 2 or Algebra 2 or teacher recommendation
E410	College Algebra	1.0	12	CH, EH, NH	4 th year Math	Algebra 2 or teacher recommendation
E415	Precalculus	1.0	11, 12	CH, EH, NH	4 th year Math	Algebra 2
E425	Introduction to Statistics	.5	11, 12	EH	4 th year Math	Algebra 2
E600	AP Calculus AB	1.0	11, 12	CH, EH, NH	4 th year Math	Precalculus
E610	AP Calculus BC	1.0	11, 12	CH, EH, NH	4 th year Math	Precalculus
E620	AP Statistics	1.0	11, 12	CH, EH, NH	4 th year Math	Precalculus or Algebra 2 or teacher recommendation

.5 Algebra/.5 Geometry – 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

MATHEMATICS COURSES

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, EHS / 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, EHS / 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 or 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

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

Prerequisite: Completion of Concepts of Algebra 2

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 or teacher recommendation

This course is for 12th 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: Algebra 2 or 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.

INTRODUCTION TO STATISTICS – E425

EHS / 11, 12 / .5 Credit

Prerequisite: Algebra 2

This course will offer students an introduction to the basic skills of statistics. Students will gain an understanding of the interpretation of categorical and quantitative data, as well as learning to make inferences, justifying conclusions, and using probability to interpret data and predict outcomes. Lessons will focus around activities that tie into the student's life and possible future careers.

AP CALCULUS AB – E600

CHS, 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 or 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.

4th-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 4th-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)

G625 AP Computer Science Principles (1.0 credit, CHS, EHS, NHS)

I120 Architectural Rendering and Design (.5 credit)

I125 Advanced Architecture (1.0 credit; .5 credit EHS)

I130 Engineering Graphics 1 (.5 credit)

I132 Engineering Graphics 2 (1.0 credit; .5 credit EHS)

I133 Engineering Graphics 3 (1.0 credit; .5 credit EHS)

I500 Robotics (.5 credit CHS, NHS)

M250 Gone Boarding (1.0 credit)

College courses, independent studies, or cooperative employment experiences that include math-related elements intended to fulfill a math-related course. Must be approved in advance by counselor and/or administrator.

MUSIC DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
J210	Concert Choir	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	
J221	Treble Chorus	1.0	10, 11, 12	CH, NH	VPAA	Successful completion of Concert Choir and audition
J230	Chorale	1.0	10, 11, 12	CH, EH, NH	VPAA	Audition
J240	Central, Eastern, or Northern Singers	1.0	10, 11, 12	CH, EH, NH	VPAA	Audition & concurrent membership in another vocal ensemble
J310	Concert Orchestra	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	Completion of 8th grade orchestra or by audition for new students
J320	Symphony Orchestra	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	Audition
J110	Concert Band	1.0	9, 10, 11, 12	CH	VPAA	Completion of 8th grade band or by audition for new students
J120	Symphonic Band	1.0	9, 10, 11, 12	CH, NH	VPAA	Audition
J130	Wind Ensemble	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	Audition
J112	Jazz Lab/Jazz Ensemble	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	Audition & concurrent membership in another instrumental ensemble
J132	Advanced Jazz Ensemble	1.0	10, 11, 12	CH	VPAA	Completion of Jazz Ensemble, Audition & concurrent membership in another instrumental ensemble
J410	Percussion Ensemble/Steel Band	1.0	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.

CHOIR

CONCERT CHOIR – J210

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

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.

TREBLE CHORUS – J221

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

Prerequisite: Successful completion of Concert Choir and audition

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.

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, 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.

ADVANCED JAZZ ENSEMBLE – J132

CHS / 10, 11, 12 / 1.0 Credit

Prerequisite: Completion of Jazz Ensemble, 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
M100	Fitness for Life 1	.5	9, 10	CH, EH, NH	Physical Education	
M200	Health	.5	9, 10, 11, 12	CH, EH, NH	Health	
M220	Team Sports	.5	10, 11, 12	EH, NH	Physical Education	Fit for Life 1 (CH)
M230	Strength & Conditioning 1	.5	9, 10, 11, 12	CH, EH, NH	Physical Education	
M235	Strength & Conditioning 2	.5	10, 11, 12	NH		Strength &Cond 1
M260	Yoga 1	.5	10, 11, 12	CH	Physical Education	Fit for Life 1 or Strength & Cond
M270	Movement Fitness	.5	10, 11, 12	EH, NH		
M280	Global Games	.5	10, 11, 12	CH, EH, NH	Physical Education (EH, NH)	Fit for Life 1 or Strength & Cond (CH & EH)
M350	Athletic Training "A"	.5	10, 11, 12	CH	Physical Education	

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

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

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

PHYSICAL EDUCATION DEPARTMENT

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.

HEALTH - M200

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

Students will explore units that meet the State of Michigan Health Standards. Throughout these units, emphasis is placed on avoidance of risky behaviors, positive self-image, refusal skills, and knowledge of responsibilities and laws. Units will include: types of health (mental, physical, social/emotional), foods and fitness, alcohol, tobacco, and drugs, healthy relationships, communicable and non-communicable diseases, HIV/STIs, reproductive system, pregnancy (abstinence-based), CPR and First Aid.

TEAM SPORTS - M220

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

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

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.

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.

STRENGTH AND CONDITIONING 2 – M235

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.

YOGA 1 – M260

CHS / 10, 11, 12 / .5 Credit

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.

MOVEMENT FITNESS – M270

EHS, 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 / 1.0 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.

ATHLETIC TRAINING “A” – M350

CHS / 10, 11, 12 / .5 credit

This course provides high school students with a general overview of athletic training, sports medicine, and its history. It includes introductory information about medical terminology and the AT’s scope of practice: injury prevention, treatments, rehabilitation, emergency injury management, and administrative functions. Students will gain an understanding of sports medicine and various associated disciplines and the role they play in the physically active community.

SCIENCE DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
D110	Biology	1.0	9, 10, 11, 12	CH, EH, NH	Biology	
D210	Chemistry	1.0	10, 11, 12	CH, EH, NH	Chemistry/ Physics	Successful completion of Biology
D215	Chemistry	1.0	10, 11, 12	CH, EH, NH	Chemistry/ Physics	Algebra 1 completed or concurrent, and completion of Biology
D220	Physics	1.0	10, 11, 12	CH, EH, NH	Chemistry/ Physics	Successful completion of Algebra 1 and Biology strongly recommended
D225	Physics	1.0	10, 11, 12	CH, EH, NH	Chemistry/ Physics	Algebra 2 completed or concurrent, and successful completion of Biology strongly recommended
D415	Advanced Geology	1.0	11,12	CH	Science Elective	Successful completion of Biology required; Chemistry 215 recommended
D420	Human Anatomy & Physiology	1.0	10, 11, 12	CH, EH, NH	Chemistry/ Physics	Successful completion of Biology
D510	Forensic Science	.5/sm 1.0/yr	10, 11, 12	CH, EH, NH	Science Elective	Successful completion of Biology
D530	Environmental Science	.5	11, 12	EH, NH	Science Elective	Successful completion of Biology
D552	Scientific Research in Practice	.5/sm 1.0/yr	11	CH	Science Elective	Intro to Scientific Research
D553	Independent Scientific Research Study	1.0	12	CH	Science Elective	Scientific Research in Practice
D560	Science of Sports and Games	.5/sm	10, 11, 12	CH	Science Elective	Biology preferred
D610	AP Biology	1.0- EH 2.0- CH,NH	11, 12	CH, EH, NH	Science Elective	Successful completion of Biology required and Chemistry 215 recommended
D620	AP Chemistry	1.0-EH 2.0- CH,NH	11, 12	CH, EH, NH	Science Elective	Algebra 2 completed or concurrent, and successful completion of Chemistry 215 strongly recommended
D630	AP Environmental Science	1.0	11, 12	CH, EH, NH	Science Elective	Chemistry 215
D640	AP Physics 1	1.0	10, 11, 12	NH	Science Elective	Successful completion of Chemistry and Algebra 2
D642	AP Physics 2	1.0	11, 12	NH	Science Elective	Successful completion of AP Physics 1
D645	AP Physics C: Mechanics	1.0	11, 12	CH, EH	4 th year Math or Science Elective	AP Calculus completed or concurrent

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

Chemistry/Physics – Meets the Chemistry/Physics requirement based on the Michigan Merit Curriculum

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

Human Anatomy – Can be taken in place of Chemistry/Physics for MMC science requirement

SCIENCE COURSES

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 cellular activity leads to learning the essential and core concepts related to such topics as genetics, cellular energetics, and how the diversity of life changes over time and impacts ecosystems.

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 4th-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 4th-year math-related course if taken after the MMC Science requirement has been fulfilled.**

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.

ELECTIVES

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

FORENSIC SCIENCE – D510

CHS, EHS, NHS / 10, 11, 12 / .5/semester; 1.0/year 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

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.

SCIENCE OF SPORTS AND GAMES – D560

CHS / 10, 11, 12 / .5 Credit

This course provides students with an opportunity to appreciate the importance of science in everyday life, especially in common occurrences that typically go unnoticed. Students in this course will act as the scientists in a non-traditional problem based learning setting. They will collect, analyze, and interpret data. Students will also design and engineer solutions to real world problems and 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 10th grade with Introduction to Scientific Research, then continuing in 11 grade with Scientific Research in Practice, and finally in 12th grade with Independent Scientific Research Study.

SCIENTIFIC RESEARCH IN PRACTICE - D552

CHS / 11 / .5/semester; 1.0/year 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 / EH-1.0 credit; CH, NH-2.0 Credit

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

This challenging course 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 4th-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 two full-year courses, AP Physics 1 and 2. Splitting the AP Physics B course into two 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 4th-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 4th-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 4th-year math-related course if taken after the MMC Science requirement has been fulfilled.**

FHPS STEM Academy Course Description

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 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 in a flexible environment where class projects will be constructed and presented. One major facet of the STEM Academy is the Senior Design Project where students will work in teams, alongside 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 9th grade. Below is a course map for students enrolled in the Academy:

	11-12 STEM Academy			9-10 STEM Academy		
	1	2	3	4	5	6
9 th	Parent HS (CHS, EHS, NHS)			Geometry, Biology, Engineering 101		
10 th	Parent HS (CHS, EHS, NHS)			Algebra II, Chemistry 215, Robotics		
11 th	Pre-Calculus, AP Physics, AP Comp Science			Parent HS (CHS, EHS, NHS)		
12 th	Parent HS (CHS, EHS, NHS)				Engineering Design Workshop	

SOCIAL STUDIES DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	MEETS MMC REQS	PREREQUISITE
C100	Civics	.5	9	CH, EH, NH	Civics	
C110	Economics	.5	9	CH, EH, NH	Economics	
C101/C111	Civics & Economics for Spanish Immersion	1.0	11,12	NH	Civics & Economics	8th grade Spanish Immersion or teacher permission
C210	U.S. History	1.0	10	CH, EH, NH	US History/Geography	
C211	US History for Spanish Immersion	1.0	10, 11, 12	NH	US History/Geography	9th grade Spanish Immersion
C212	US History/English 10 Block	2.0	10	CH	US History/ELA	
C310	World History	1.0	11, 12	CH, EH, NH	World History/Geography	
C311	World History for Spanish Immersion	1.0	9, 10, 11,12	NH	World History/Geography	Spanish Immersion or teacher permission
C610	AP U.S. History	1.0	10, 11, 12	CH, EH, NH	US History/Geography	
C620	AP U.S. Gov't & Politics	.5	11, 12	CH, EH, NH	Civics	
C630	AP World History	1.0	11, 12	CH, EH, NH	World History/Geography	US History
C640	AP U.S. Gov't & Politics/ AP Comparative Gov't & Politics	1.0	11,12	NH	Civics	
C650	AP European History	1.0	11, 12	NH		
C660	AP Macroeconomics	.5	11, 12	CH, EH, NH	4th year Math & Economics	
C420	Honors International Relations/ Model UN	.5	9, 10, 11, 12	CH		Teacher recommendation and department head approval
C510	Social Psychology	.5	9, 10, 11, 12	CH		
C514	Psychology	.5	11, 12	CH, EH, NH		
C515	Advanced Psychology	.5	11, 12	CH, NH		Psychology
C518	Sociology	.5	11, 12	CH, EH, NH		
C520	History of Thought	.5	11, 12	CH		
C532	History V. Hollywood	.5	11, 12	CH, EH, NH		U.S. History
C534	Comparative World Religions	.5	11, 12	CH		
C535	Global Issues for Spanish Immersion	.5	11, 12	NH		
C538	History V. Hollywood for Spanish Immersion	.5	11, 12	NH		
C614	AP Psychology	.5	11, 12	EH, NH		
C665	AP Microeconomics	.5	11, 12	CH, EH, NH	4th year Math	

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

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

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

World History/Geography – Meets the World History/Geography Requirement based on the Michigan Merit Curriculum

SOCIAL STUDIES COURSES

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/Economics

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 20th 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 / 10 / 1.0 credit US History & 1.0 credit 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 1st Global Age (15th to 18th centuries); 3) Global Revolutions (18th century to 1914); 4) Global Crisis & Achievement (1900-1945); and 5) The Cold War & Its Aftermath (20th 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.

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 UNITED STATES GOVERNMENT AND POLITICS – C620

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

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

CHS, 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 4th-year math-related course. Please Note: This course can be taken to fulfill the Economics requirement.**

ADDITIONAL SOCIAL STUDIES ELECTIVES

HONORS INTERNATIONAL RELATIONS/MODEL UN – C420

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

Prerequisite: Teacher recommendation and department head approval

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 / 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 / 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 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 MICROECONOMICS - C665

CHS, 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
F110	French 1	1.0	9, 10, 11, 12	CH, EH, NH	World Lang	
F210	French 2	1.0	9, 10, 11, 12	CH, EH, NH	World Lang	Successful completion of French 1
F310	French 3	1.0	10, 11, 12	CH, EH, NH	World Lang	Successful completion of French 2
F410	French 4	1.0	11, 12	CH, EH	World Lang	Successful completion of French 3
F610	AP French	1.0	11, 12	CH, EH, NH	World Lang	Successful completion of French 4 or equivalent
F120	Spanish 1	1.0	9, 10, 11, 12	CH, EH, NH	World Lang	
F220	Spanish 2	1.0	9, 10, 11, 12	CH, EH, NH	World Lang	Successful completion of Spanish 1
F320	Spanish 3	1.0	10, 11, 12	CH, EH, NH	World Lang	Successful completion of Spanish 2
F420	Spanish 4	1.0	11, 12	CH, EH, NH	World Lang	Successful completion of Spanish 3
F620	AP Spanish Language and Culture	1.0	11, 12	CH, EH, NH	World Lang	Successful completion of Spanish 4 or equivalent
F621	AP Spanish Literature	1.0	11, 12	NH	World Lang	Successful completion of AP Spanish
F130	American Sign Language 1	1.0	9, 10, 11, 12	CH, EH, NH	World Lang	
F230	American Sign Language 2	1.0	10, 11, 12	CH, EH NH	World Lang	Successful completion of ASL 1
F330	American Sign Language 3	1.0	11, 12	CH, EH, NH	World Lang	Successful completion of ASL 2
F430	American Sign Language 4	1.0	12	NH	World Lang	Successful completion of ASL 3
F140	Chinese 1	1.0	9, 10, 11, 12	CH, EH, NH	World Lang	
F240	Chinese 2	1.0	10, 11, 12	CH, EH, NH	World Lang	Successful completion of Chinese 1
F340	Chinese 3	1.0	11, 12	CH, EH, NH	World Lang	Successful completion of Chinese 2
F440	Chinese 4	1.0	11, 12	CH, EH, NH	World Lang	Successful completion of Chinese 3
F221	Spanish Immersion 9	1.0	9	NH	World Lang	Spanish Immersion Program
F321	Spanish Immersion 10	1.0	10	NH	World Lang	Spanish Immersion Program
F3422	Spanish Immersion Honors 10	1.0	10	NH	World Lang	Spanish Immersion Program
F421	Spanish Immersion 11	1.0	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.

WORLD LANGUAGE COURSES

FRENCH 1 – F110

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.

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

NHS / 11, 12 / 1.0 Credit

Prerequisite: Successful completion of AP Spanish Language and Culture

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

This course will provide experiences that will enable the students to achieve the three overarching course objectives: to use Spanish for effective communication, to use Spanish to acquire new knowledge in a variety of fields, and to develop understanding of the cultures of the many people who speak Spanish (with a cultural focus on the Caribbean and Mexico).

SPANISH IMMERSION 10 – F321

NHS / 10 / 1.0 Credit

In this course, students will continue to develop and strengthen grammatical accuracy and language skills in all areas of communication (speaking, listening, reading, and writing), while enriching their cultural knowledge of the Spanish-speaking world. Cultural focus of this class will be on Spain.

SPANISH IMMERSION HONORS 10 – F3422

NHS / 10 / 1.0 Credit

This is an accelerated course that covers all of the grammar and select topics of SI 10 and SI 11 in one year. Students will be expected to maintain a rigorous pace in order to prepare for AP Spanish Language and Culture as juniors and AP Spanish Literature and Culture as seniors. As with other SI courses, development will cover all areas of communication (speaking, listening, reading, and writing), with a heavy cultural focus on the Spanish speaking world. Students will be expected to use Spanish exclusively for all communication.

SPANISH IMMERSION 11 – F421

NHS / 11 / 1.0 Credit

In this course, students will continue to develop and strengthen grammatical accuracy and language skills in all areas of communication (speaking, listening, reading, and writing), while enriching their cultural knowledge of the Spanish-speaking world. Cultural focus will be on South America.

SPANISH IMMERSION 12 – F521

NHS / 12 / 1.0 Credit

This course is an extension of the Spanish Immersion program available for students who wish to continue developing and strengthening their Spanish skills for use after high school. Students will continue to develop and strengthen grammatical accuracy and language skills in all areas of communication (speaking, listening, reading, and writing), while enriching their cultural knowledge of the Spanish-speaking world. The class will be conducted entirely in Spanish. All interactions (teacher/student and student/student) will be in Spanish.

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:

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

CHINESE IMMERSION DUAL ENROLLMENT PROGRAM WITH WESTERN MICHIGAN UNIVERSITY

The partnership between FHPS and WMU provides an option for Chinese immersion students at FHN High School to continue their Chinese language proficiency learning and growth in high school while earning college credits. Students who successfully complete all courses in this program will earn up to 28 credits at WMU, which is equivalent to a Chinese minor degree from the Department of World Languages at Western Michigan University.

The program consists of one course every semester, 7 credits per year. Courses are instructed by highly qualified WMU professors, and students are considered college students under the [WMU High School Dual Enrollment Student Handbook](#) for those courses

Application to this program is available to Chinese immersion students at FHN high school only. Admission to the program is determined by the WMU Admissions Office based on the following requirements established by the WMU's Admissions Office for this program:

- High School GPA of at least 2.75. For incoming 9th grade students, this GPA is taken from their 8th grade Chinese Immersion class end-of-year grade
- Score of at least 790 in the PSAT 8/9
- Qualifying score on the WMU Chinese language assessment
- Permission from parent/guardian

Chinese immersion students who do not meet the admission requirements, and those who choose not to participate, can enroll in traditional high school Chinese world language courses at NHS.

SPECIAL EDUCATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	PREREQUISITE
N900	Academic Strategies	1.0	9, 10, 11, 12	CH, EH, NH	Current Individualized Education Plan (IEP)
B916A B916B	Reading and Writing Strategies, Level 1	1.0	9, 10, 11, 12	CH, EH, NH	Current Individualized Education Plan (IEP)
B917A B917B	Reading and Writing Strategies, Level 2	1.0	9, 10, 11, 12	CH, EH, NH	Current Individualized Education Plan (IEP)
V330	Kent Transition Center	3.0	11, 12	CH, EH, NH	Current Individualized Education Plan (IEP)

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

SPECIAL EDUCATION

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 AND WRITING STRATEGIES, LEVEL ONE - B916A and B916B

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 9th and 10th grade ELA standards.

READING AND WRITING STRATEGIES, LEVEL TWO – B917A AND B917B

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

Prerequisite: Current Individualized Education Plan (IEP)

This course is a continuation of the Reading Strategies Level One course. Students will work towards improving reading fluency and comprehension with grade level texts. Essay writing and creative writing will also be a focus of this course. Topics will specifically be aligned to the 11th and 12th grade ELA standards.

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
M250	Gone Boarding	1.0	10, 11, 12	CH, EH, NH	VPAAs, PE, or 4th year Math (choose 2)	
N610	AP Seminar	1.0	11	CH		
N611	AP Research	1.0	12	CH		AP Seminar
N550	Leadership	.5	9, 10, 11, 12	EH		
N100	Tools for Success	.5/semester 1.0/year (credit/no credit)	9, 10, 11, 12	CH, EH, NH		Counselor/Teacher approval
N430	Teacher Cadet	.5/semester 1.0/year	11, 12	CH		EDP with career-goal of teaching
N450	Senior Projects	.5	12	CH, EH, NH		
N460	Peer-to-Peer	.5/semester 1.0/year	9, 10, 11, 12	EH, NH		
	Project NEXT		9, 10	NH		
N700	Independent Study	.5	9, 10, 11, 12	CH, EH, NH		Pre-approval by principal, counselor, appropriate teacher, and parent
N200	On-Line Courses, including Michigan Virtual School	.5	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	.5/semester 1.0/year	11, 12	CH, EH, NH		
V410	Cooperative Education	1.0/semester	11, 12	CH, EH, NH		
R100	Kent Innovations High	4.0	9, 10	CH, EH, NH	ELA, Math, Science, Social Studies	
	Hawk Team		9, 10, 11, 12	EH		
	Take the Lead		9, 10, 11, 12	EH		
V340	Kent Career Technical Center	3.0	11, 12	CH, EH, NH		

SPECIAL OPPORTUNITIES

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.

AP SEMINAR – N610

CHS / 11 / 1.0/year 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.

AP RESEARCH – N611

CHS / 12 / 1.0/year Credit

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; ethical research practices, accessing, analyzing, and synthesizing information.

LEADERSHIP – N550

EHS / 10, 11, 12 / .5/semester 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/semester

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 / 11, 12 / .5/semester 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.

SENIOR PROJECTS – N450

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

The Peer-to-Peer Program represents a model of 21st 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.

PROJECT NEXT

NHS / 9, 10

Project NEXT is a high-impact, project-based learning environment created based on industry feedback that high-school graduates were missing workforce skills. Students develop perseverance and professionalism through multi-disciplinary projects designed and curated by themselves. In Project NEXT, students forego traditional hourly schedules in favor of designing their workday around their project priorities and needs; in turn, students develop lasting connections with their learning. Ultimately, Project NEXT students become prepared to be productive adults who are capable of taking on 21st-century problems.

9th Grade: All students earn credit in: Biology, English 9, Geometry, World History (Spanish Immersion World History is also available), Makerspace: Design Thinking 101 and Computer Systems 1. Students must be enrolled in 4 hours of Project NEXT.

10th Grade: All students earn credit in: Chemistry, English 10, Algebra 1, US History (or Advanced Placement US History), Makerspace: Design Thinking 101 and Computer Systems 1. Students must be enrolled in 4 hours of Project NEXT.

INDEPENDENT STUDY – N700

CHS, EHS, NHS / 9, 10, 11, 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 courses must be board-approved courses listed within this Course Description Guide.

VIRTUAL LEARNING COURSES, including Michigan Virtual School – N200

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

Prerequisite: Prior written approval from counselor, principal, and parent/guardian

Virtual learning can be a stimulating, challenging platform for motivated learners. The transition from a traditional school structured course to a virtual learning course, however, may be difficult for some students. A successful virtual learning student possesses unique qualities, and must master important study habits, including: 1) creating and maintaining a study schedule throughout the semester with limited face-to-face interaction with a teacher or direct supervision of an adult; 2) asking for help, making contact with other students and the instructor, and describing any problems with learning the material; and 3) studying and completing assignments with limited direct supervision, and maintain the self-discipline to stick to a schedule.

The virtual learning course must be capable of generating academic credit toward the remaining graduation requirements of the student. Available courses are listed in the statewide virtual course catalog (micourses.org/catalog). If the cost of the virtual learning course exceeds the amount of the state-prescribed District payment, the student's parent/legal guardian must agree to pay for the additional cost.

Colleges and universities have individual policies regarding virtual learning courses, and this may affect how the high school transcript is evaluated in the application process; students should discuss this with their school counselor and any prospective college or university. For virtual learning courses that have a final exam, all final exams must be proctored by a FHPS staff member for the course, credit, and grade to transfer to your FHPS transcript. Grades are issued by the virtual learning course instructor, and FHPS will not override their professional judgment. If the instructor provides both a letter grade and a percentage, the letter grade will be transcribed to the student's high school transcript; if the instructor provides only a percentage grade, it will be translated to a letter grade using the FHPS common grading scale and transcribed to the student's high school transcript.

Courses taken through virtual learning will go on the transcript with grade and credit if they are part of the 6-hour day (as defined by individual student's schedule) or part of an approved District program. Courses of this nature should be approved through the Virtual Learning Course Enrollment Application in advance of enrollment.

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 university or college courses, with the 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 and all owed fees 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 charges 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/semester; 1/year Credit

See page 22 in the Business Department for course description.

COOPERATIVE EDUCATION (CO-OP) – V410

CHS, EHS, NHS / 11, 12 / 1.0/semester 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.

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 din 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 can be used for English Language Arts credit toward a FHPS diploma. Higher education institutions use their own discretion in counting AP Seminar toward high school ELA credits for their admittance purposes. AP Seminar is not an approved NCAA 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

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.

HAWK TEAM

EHS / 9, 10, 11, 12

All EHS students meet every other week, in teams of twelve (three freshmen, three sophomores, three juniors, and three seniors), to work on team-building, speaking, and leadership skills. Students are active participants in various activities that challenge their thinking and reinforce strong community at EHS. The groups are led by trained senior leaders and a mentor teacher. This experience does not result in a grade.

TAKE THE LEAD

EHS / 9, 10, 11, 12

All EHS students participate in the Take the Lead program. Students meet twice a month to work on grade-specific skills and experiences to enhance their high school experience and prepare them for post-secondary life. Freshmen focus on 21st-century skill development, sophomores focus on career readiness, juniors dig deep into college and test prep skills and seniors experience leadership or service training. This experience does not result in a grade.

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 9th 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.

[Kent Career Technical Center High School Credit Equivalency](#)

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.

- **First session:** **6:55 a.m. – 9:10 a.m.**
- **Second session:** **9:15 a.m. – 11:30 a.m.**
- **Third 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: thetechcenter.org

INDEX BY DEPARTMENT

ART DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
L900	Adaptive Arts	.5	9, 10, 11, 12	NH		16
L110	Art 1	.5/sem. 1.0/year	9, 10, 11, 12	EH, NH	VPAA	16
L120	Art 2	.5/sem. 1.0/year	10, 11, 12	EH, NH	VPAA	15
L130	Art 3	.5/sem. 1.0/year	11, 12	EH, NH	VPAA	16
L140	Art 4	.5/sem. 1.0/year	12	EH, NH	VPAA	17
L200	Art Survey	.5	9, 10, 11, 12	CH	VPAA	17
L221	Drawing & Painting 1	.5	9, 10, 11, 12	CH	VPAA	17
L222	Drawing & Painting 2	.5	10, 11, 12	CH	VPAA	17
L223	Drawing & Painting 3	.5	10, 11, 12	CH	VPAA	17
L224	Drawing & Painting 4	.5	10, 11, 12	CH	VPAA	17
L231	Sculpture & Ceramics 1	.5	9, 10, 11, 12	CH	VPAA	18
L232	Sculpture & Ceramics 2	.5	9, 10, 11, 12	CH	VPAA	18
L233	Sculpture & Ceramics 3	.5	10, 11, 12	CH	VPAA	18
L234	Sculpture & Ceramics 4	.5	10, 11, 12	CH	VPAA	18
L252	Digital Media	.5	9, 10, 11, 12	CH	VPAA	18
L400A, L400B	Makerspace: Design Thinking: 101	.5/sem. 1.0/year	9, 10, 11, 12	NH	VPAA	18, 29
L410A, L410B	Digital Clay, Illustration and Ceramics	.5/sem. 1.0/year	9, 10, 11, 12	NH	VPAA	18
L600	AP Studio Art	1.0	11, 12	CH. EH. NH	VPAA	19

BUSINESS DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
G100	Introduction to Business	.5	9, 10, 11	CH. EH. NH		21
G140	Accounting	.5/sem. 1.0/year	9, 10, 11, 12	CH. EH. NH	4th year Math	21
G145	Accounting 2	1.0	10, 11, 12	CH. EH. NH	4th year Math	21
G170	Personal Finance	.5/sem. 1.0/year	9, 10, 11, 12	CH. EH. NH	4th year Math	21
G120	Computer Info Systems 1	.5	9, 10, 11, 12	EH, NH		21
G125	Computer Info Systems 2	.5	9, 10, 11, 12	EH, NH		21
G540	Computer Graphics/Game Design	.5/sem. 1.0/year	10, 11, 12	EH	4th year Math or VPAA	22
G620	AP Computer Science Programming	1.0	11, 12	CH	4th year Math	22
G625	AP Computer Science Principles	1.0	9, 10, 11, 12	CH, EH, NH	4th year Math	22
G210	Marketing 1	.5	9 EH 10, 11, 12	CH. EH. NH	4th year math or VPAA	22
G215	Marketing 2	.5	9 EH 10, 11, 12	CH. EH. NH	4th year Math or VPAA	22
G218	Sports Business Management	.5	11, 12	CH, NH		23
G220	Advanced Marketing	1.0	11, 12	CH. EH. NH	4th year Math or VPAA	23
V310	Work Experience	.5	11, 12	CH. EH. NH		23
V410	Cooperative Education	1.0	11, 12	CH. EH. NH		23

COMMUNICATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
A100	Communication	.5	9, 10, 11, 12	CH, EH	VPAA	24
A120	Media Communication	.5	9, 10, 11, 12	CH, EH, NH	VPAA	24
A140	Strategic Debate	.5	9, 10, 11, 12	CH	VPAA	24
A150	Theatre Arts 1	.5	9, 10, 11, 12	CH, EH, NH	VPAA	25
A155	Theatre Arts 2	.5	9, 10, 11, 12	CH, EH, NH	VPAA	25
A210	Musical Theatre	.5	9, 10, 11, 12	NH	VPAA	25
A215	Summer Stock	.5	9, 10, 11, 12	CH, EH, NH	VPAA	25
A250	Technical Theatre	.5	10, 11, 12	EH, NH		25
A310	TV Broadcast Lab	1.0	10, 11, 12	CH, EH, NH	VPAA	25
A330	Film Projects	.5	11, 12	CH, NH	VPAA	26

ENGINEERING, MANUFACTURING, AND INDUSTRIAL TECHNOLOGY DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
I120	Architectural Rendering & Design	.5	9, 10, 11, 12	CH, EH, NH	4th year Math or VPAA	27
I125	Advanced Architecture	1.0	9, 10, 11, 12	CH, EH, NH	4th year Math or VPAA	28
I130	Engineering Graphics 1	.5	9, 10, 11, 12	CH, EH, NH	4th year Math or VPAA	28
I132	Engineering Graphics 2	1.0	10, 11, 12	CH, EH, NH	4th year Math or VPAA	28
I133	Engineering Graphics 3	1.0	10, 11, 12	CH, EH, NH	4th year Math or VPAA	28
I100	Bench Woodworking	.5	9, 10, 11, 12	CH, EH, NH	VPAA	28
I105	Advanced Woodworking	1.0	10, 11, 12	CH, EH, NH	VPAA	28
L400A, L400B	Makerspace: Design Thinking: 101	.5/sem. 1.0/year	9, 10, 11, 12	NH	VPAA	18, 29
L410A, L410B	Digital Clay, Illustration and Ceramics	.5/sem. 1.0/year	9, 10, 11, 12	NH	VPAA	29
I500	Robotics	.5	9, 10, 11, 12	NH	4th year Math	29

ENGLISH LANGUAGE ARTS DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
B110	English 9	1.0	9	CH, EH, NH	ELA	31
B115	Honors English 9	1.0	9	CH, EH, NH	ELA	31
B210	English 10	1.0	10	CH, EH, NH	ELA	31
B212	English 10/US History Block	2.0	10	CH	ELA/US History	31
B215	Honors English 10	1.0	10	CH, EH, NH	ELA	31
B310	English 11	1.0	11	CH, EH, NH	ELA	32
B611	AP English Language & Composition	1.0	11	CH, EH, NH	ELA	32
B402	Senior Classical Literature	.5	12	CH, EH, NH	ELA	32
B404	Senior Composition	.5	12	CH, EH, NH	ELA	32
B406	Senior Creative Writing	.5	12	CH, EH, NH	ELA	32
B407	Senior English Contemporary Literature	.5	12	EH	ELA	32
B409	Senior Literature	.5	12	NH	ELA	33
B410	Senior Reading & Writing	.5	12	CH, EH, NH	ELA	32
B420	Senior English	.5	12	CH, EH, NH	ELA	33
B532	Literature & Cinema	.5	12	CH	ELA	33
B612	AP Literature & Composition	1.0	12	CH, EH, NH		33
B510	Yearbook	1.0	11, 12	CH, EH, NH	VPAA	33
B520	Writing for Publication	.5	9, 10, 11, 12	CH, EH, NH		34
B525	Advanced Writing for Publication	NH- .5 1.0	10, 11, 12	CH, EH, NH	VPAA	34
B800	English Learners (EL)	1.0	9, 10, 11, 12	CH, EH, NH	ELA CH only	34

LIFE MANAGEMENT EDUCATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
K100	Introduction to Culinary Arts	.5	9, 10, 11, 12	NH	VPAA	35
K105	Advanced Culinary Arts	.5	9, 10, 11, 12	NH	VPAA	35
K120	Interior Design	.5	9, 10, 11, 12	NH	VPAA	35
K125	Advanced Interior Design	.5	9, 10, 11, 12	NH	VPAA	35
K175	Fashion Design	.5	9, 10, 11, 12	NH		36
K210	Child Development & Parenting	.5	10, 11, 12	NH	VPAA	36
K215	Advanced Child Development & Parenting	.5	11, 12	NH	VPAA	36

MATHEMATICS DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
E100	Pre-Algebra	1.0	9	NH		38
EC100	Algebra/Geometry 1	1.0	9	CH, EH	.5 Algebra/.5 Geometry	38
E110	Algebra 1	1.0	9, 10, 11, 12	CH, EH, NH	Algebra 1	38
E150	Accelerated Algebra 1/Geometry	2.0	9	NH	Algebra 1 & Geometry	38
E200	Algebra/Geometry 2	1.0	10	CH, EH	.5 Algebra/.5 Geometry	38
E210	Geometry	1.0	9, 10, 11, 12	CH, EH, NH	Geometry	38
E300	Concepts of Algebra 2	1.0	11, 12	CH, EH, NH	Algebra 2	39
E310	Algebra 2	1.0	10, 11, 12	CH, EH, NH	Algebra 2	39
E405	Algebra 3	1.0	12	NH	4th year Math	39
E410	College Algebra	1.0	12	CH, EH, NH	4th year Math	39
E415	Precalculus	1.0	11, 12	CH, EH, NH	4th year Math	39
E425	Introduction to Statistics	.5	11, 12	EH	4th year Math	40

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
E600	AP Calculus AB	1.0	11, 12	EH, NH	4th year Math	40
E610	AP Calculus BC	1.0	11, 12	CH, EH, NH	4th year Math	40
E620	AP Statistics	1.0	11, 12	CH, EH, NH	4th year Math	40

MUSIC DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
J210	Concert Choir	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	43
J221	Treble Chorus	1.0	10, 11, 12	CH, NH	VPAA	43
J230	Chorale	1.0	10, 11, 12	CH, EH, NH	VPAA	43
J240	Central, Eastern, or Northern Singers	1.0	10, 11, 12	CH, EH, NH	VPAA	43
J310	Concert Orchestra	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	43
J320	Symphony Orchestra	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	43
J110	Concert Band	1.0	9, 10, 11, 12	CH	VPAA	44
J120	Symphonic Band	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	44
J130	Wind Ensemble	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	44
J112	Jazz Lab/Jazz Ensemble	1.0	9, 10, 11, 12	CH, EH, NH	VPAA	44
J132	Advanced Jazz Ensemble	1.0	10, 11, 12	CH	VPAA	44
J410	Percussion Ensemble/Steel Band	1.0	9, 10, 11, 12	CH	VPAA	45

PHYSICAL EDUCATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
M100	Fitness for Life 1	.5	9, 10	CH, EH, NH	Phys Ed	46
M200	Health	.5	9, 10, 11, 12	CH, EH, NH	Health	46
M220	Team Sports	.5	10, 11, 12	EH, NH		46
M230	Strength & Conditioning 1	.5	10, 11, 12	CH, EH, NH	Phys Ed	46
M235	Strength & Conditioning 2	.5	10, 11, 12	NH		47
M260	Yoga 1	.5	10, 11, 12	CH, EH		47
M270	Movement Fitness	.5	10, 11, 12	NH		47
M280	Global Games	.5	10, 11, 12	CH, EH, NH		47
M350	Athletic Training "A"	.5	10, 11, 12	CH	Phys Ed	47

SCIENCE DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
D110	Biology	1.0	9, 10, 11, 12	CH, EH, NH	Biology	49
D210	Chemistry	1.0	10, 11, 12	CH, EH, NH	Chemistry / Physics	49
D215	Chemistry	1.0	10, 11, 12	CH, EH, NH	4th year Math or Chemistry / Physics	49
D220	Physics	1.0	10, 11, 12	CH, EH, NH	Chemistry / Physics	49
D225	Physics	1.0	10, 11, 12	CH, EH, NH	4th year Math or Chemistry / Physics	49
D415	Advanced Geology	1.0	11, 12	CH	Science Elective	50
D420	Human Anatomy & Physiology	1.0	10, 11, 12	CH, EH, NH	Science Elective	50
D510	Forensic Science	.5/sem. 1.0/year	10, 11, 12	CH, EH, NH	Science Elective	50
D530	Environmental Science	.5	11, 12	EH, NH	Science Elective	50
D560	Science of Sports and Games	.5/sem.	10, 11, 12	CH	Science Elective	50
D552	Scientific Research in Practice	.5/sem. 1.0/year	11	CH	Science Elective	51
D553	Independent Scientific Research Study	1.0	12	CH	Science Elective	51
D610	AP Biology	2.0	11, 12	CH, EH, NH	Science Elective	51
D620	AP Chemistry	2.0	11, 12	CH, EH, NH	4th year Math or Science Elective	52
D630	AP Environmental Science	1.0	11, 12	CH, EH, NH	Science Elective	52
D640	AP Physics 1	1.0	10, 11, 12	NH	4th year Math or Science Elective	52
D642	AP Physics 2	1.0	11, 12	NH	4th year Math or Science Elective	52
D645	AP Physics C: Mechanics	1.0	11, 12	CH, EH	4th year Math or Science Elective	53
	STEM Academy			NH		54

SOCIAL STUDIES DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
C100	Civics	.5	9	CH, EH, NH	Civics	56
C110	Economics	.5	9	CH, EH, NH	Economics	56
C101/C111	Civics & Economics for Spanish Immersion	1.0	11, 12	NH	Civics & Economics	56
C210	U.S. History	1.0	10	CH, EH, NH	US History/Geog.	56
C211	U.S. History for Spanish Immersion	1.0	10	NH	US History/Geog.	56
C212	U.S. History/English 10 Block	2.0	10	CH	US History/ELA	56
C310	World History	1.0	11, 12	CH, EH, NH	World History/Geog.	57
C311	World History for Spanish Immersion	1.0	9, 10, 11, 12	NH	World History/Geog.	57
C610	AP U.S. History	1.0	10, 11, 12	CH, EH, NH	US History/Geog.	57
C620	AP U.S. Gov't & Politics	.5	11, 12	CH, EH, NH	Civics	57
C630	AP World History	1.0	11, 12	CH, EH, NH	World History/Geog.	58
C640	AP U.S Gov't & Politics/ AP Comparative Gov't & Politics	1.0	11, 12	NH	Civics	58
C660	AP Macroeconomics	.5	11, 12	CH, EH, NH	4th year Math & Economics	58
C420	Honors International Relations/ Model UN	.5	9, 10, 11, 12	CH		58
C514	Psychology	.5	11, 12	CH, EH, NH		58
C515	Advanced Psychology	.5	11, 12	CH, NH		59
C518	Sociology	.5	11, 12	CH, EH, NH		59
C520	History of Thought	.5	11, 12	CH		59
C532	History V. Hollywood	.5	11, 12	CH, EH, NH		59
C534	Comparative World Religions	.5	11, 12	CH		59
C535	Global Issues for Spanish Immersion	.5	11, 12	NH		59
C538	History V. Hollywood for Spanish Immersion	.5	11, 12	NH		59
C614	AP Psychology	.5	11, 12	EH, NH		59
C650	AP European History	1.0	11, 12	NH		60
C665	AP Microeconomics	.5	11, 12	CH, EH, NH	4th year Math	60

WORLD LANGUAGE DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
F110	French 1	1.0	9, 10, 11, 12	CH, EH, NH	World Language	62
F210	French 2	1.0	9, 10, 11, 12	CH, EH, NH	World Language	62
F310	French 3	1.0	10, 11, 12	CH, EH, NH	World Language	62
F410	French 4	1.0	11, 12	CH, EH	World Language	62
F610	AP French	1.0	11, 12	CH, EH, NH	World Language	62
F120	Spanish 1	1.0	9, 10, 11, 12	CH, EH, NH	World Language	62
F220	Spanish 2	1.0	9, 10, 11, 12	CH, EH, NH	World Language	62
F320	Spanish 3	1.0	10, 11, 12	CH, EH, NH	World Language	63
F420	Spanish 4	1.0	11, 12	CH, EH, NH	World Language	63
F620	AP Spanish Language and Culture	1.0	11, 12	CH, EH, NH	World Language	63
F621	AP Spanish Literature	1.0	11, 12	NH	World Language	63
F130	American Sign Language 1	1.0	9, 10, 11, 12	CH, EH, NH	World Language	63
F230	American Sign Language 2	1.0	10, 11, 12	CH, EH, NH	World Language	63
F330	American Sign Language 3	1.0	11, 12	CH, EH, NH	World Language	64
F430	American Sign Language 4	1.0	12	CH, EH, NH	World Language	64
F140	Chinese 1	1.0	9, 10, 11, 12	CH, EH, NH	World Language	64
F240	Chinese 2	1.0	10, 11, 12	CH, EH, NH	World Language	64
F340	Chinese 3	1.0	11, 12	CH, EH, NH	World Language	64
F440	Chinese 4	1.0	11, 12	CH, EH, NH	World Language	64
F221	Spanish Immersion 9	1.0	9	NH	World Language	65
F321	Spanish Immersion 10	1.0	10	NH	World Language	65
F3422	Spanish Immersion Honors 10	1.0	10	NH	World Language	65
F421	Spanish Immersion 11	1.0	11	NH	World Language	65
F521	Spanish Immersion 12	1.0	12	NH	World Language	65

SPECIAL EDUCATION DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
N900	Academic Strategies	1.0	9, 10, 11, 12	CH, EH, NH		67
B916A B916B	Reading and Writing Strategies, Level 1	1.0	9, 10, 11, 12	CH, EH, NH		67
B917A B917B	Reading and Writing Strategies, Level 2	1.0	9, 10, 11, 12	CH, EH, NH		68
V330	Kent Transition Center	3.0	11, 12	CH, EH, NH		68

SPECIAL OPPORTUNITIES DEPARTMENT

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
M250	Gone Boarding	1.0	10, 11, 12	CH, EH, NH	VPAA, Phys Ed, or 4th year Math (choose 2)	70
N610	AP Seminar	1.0	11	CH		70
N611A, N611B	AP Research	1.0	12	CH		70
N550	Leadership	.50/sem.	10, 11, 12	EH		70
N100	Tools for Success	.50	9, 10, 11, 12	CH, EH, NH		70
N430	Teacher Cadet	.50/sem. 1.0/year	11, 12	CH		70
N450	Senior Projects	.50	12	CH, EH, NH		70

COURSE #	TITLE	CR	LEVEL AVAILABLE	SCHOOL OFFERED	REQ MET	PAGE
N460	Peer-to-Peer	.50	9, 10, 11, 12	EH, NH		71
	Project NEXT			NH		71
N700	Independent Study	.50	12	CH, EH, NH		71
N200	Virtual Learning Courses	.50	9, 10, 11, 12	CH, EH, NH		72
N299-300	Dual Enrollment Courses		9, 10, 11, 12	CH, EH, NH		72
V310	Work Experience	.50	11, 12	CH, EH, NH		72
V410	Cooperative Education	1.00	11, 12	CH, EH, NH		72
	AP Capstone Program			CH		73
	Hawk Team		9, 10, 11, 12	EH		73
	Take the Lead		9, 10, 11, 12	EH		73
	Kent ISD Programs			CH, EH, NH		74

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