

2023-2024

# CURRICULUM GUIDE



Students are assigned to school counselors by the first letter of their last name and remain with the same counselor throughout their four years of high school. Students and parents are encouraged to contact and meet with counselors at any time. Counselors will be responsible for scheduling student classes, discussing test results, etc. The Kenowa Hills School Counselors are as follows:

Mrs. Ashley Anderson (A-K)

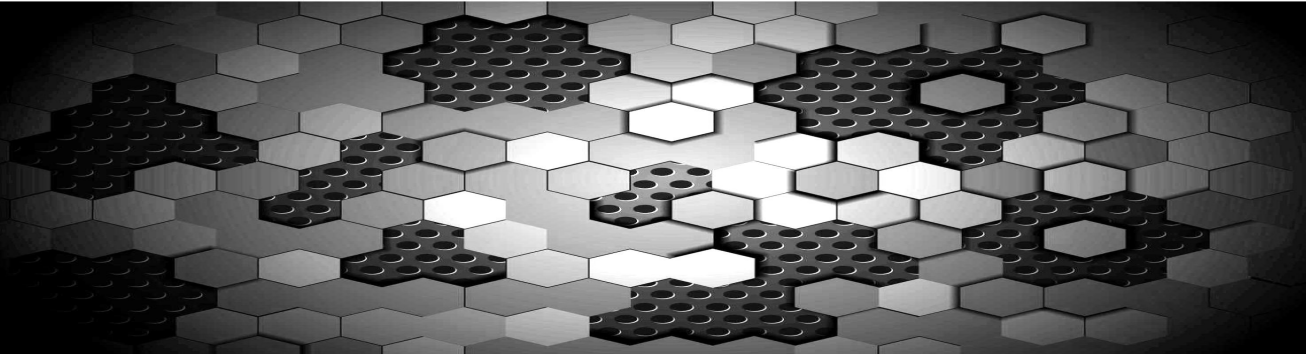
[aanderson@khps.org](mailto:aanderson@khps.org)

Mrs. Kayle Ogrodzinski (L-Z)

[kogrodzinski@khps.org](mailto:kogrodzinski@khps.org)

Mrs. Anne Harig (EL)

[aharig@khps.org](mailto:aharig@khps.org)



## ACADEMICS

[Dual Enrollment](#)

[Graduation Requirements](#)

[Testing Out Policy](#)

[Standardized Achievement Testing](#)

[Personal Curriculum](#) | [PC Guidelines](#)

## FOUR-YEAR PLAN

[Guidance Counseling Department](#)

[Schedule Changes](#)

[KHHS/NCAA Approved Core Courses](#)

[NCAA Athletic Eligibility](#)

[KCTC Programs](#)

[Sample Four Year Plan](#)

## COURSE CATALOG

[Art Department](#)

[Business Department](#)

[English Department](#)

[General Electives](#)

[Math Department](#)

[Music Department](#)

[Physical Education & Health  
Department](#)

[Science Department](#)

[Social Studies Department](#)

[Technology and STEM Department](#)

[World Language Department](#)



# Course Requirements

**TOTAL CREDITS: 22**

**ENGLISH: 4 credits**

9: Honors English 9 or English 9

10: Honors English 10 or English 10

11: A.P. English Literature & Composition or English 11

12: A.P. English Language & Composition, English 12 College Prep, or English 12 Career Prep

**MATHEMATICS: 4 credits**

9: Algebra I

10: Geometry

11: Algebra II, Algebra II-A, or Algebra II-B (including math or math related course during the 12<sup>th</sup> grade)

12: Math Related Courses include Personal Finance, Accounting I, Accounting II,

**SCIENCE: 3 credits**

9: Biology or Honors Biology

10: Earth Science AND Intro to Chemistry or Intro to Physics

11: Chemistry or Physics

**SOCIAL STUDIES: 3 credits**

9: World History

10: American History OR AP American History

11: Economics and Government or AP Government and Economics

**WORLD LANGUAGE: 2 credits**

Two credits in the same world language (i.e. French I & II, Spanish I & II)

**HEALTH: .5 credit**

**PHYSICAL EDUCATION: .5 credits**

**ELECTIVES: 4.0 credits**

**ADDITIONAL REQUIREMENTS:**

Michigan Merit Exam (April)



**TESTING OUT POLICY** | The Board of Education of the Kenowa Hills Public School District acknowledges that some students may have acquired knowledge or skills at levels that would allow them to demonstrate a reasonable degree of mastery without taking specified courses. The purpose of this policy is to provide students an opportunity to be placed in the course of study that appropriately matches their level of mastery in a subject area. Students may request an opportunity to demonstrate such mastery by testing out of a course, through a combination of comprehensive written examination(s), essays, projects, portfolios, performances, or other comparable forms as determined by each department.

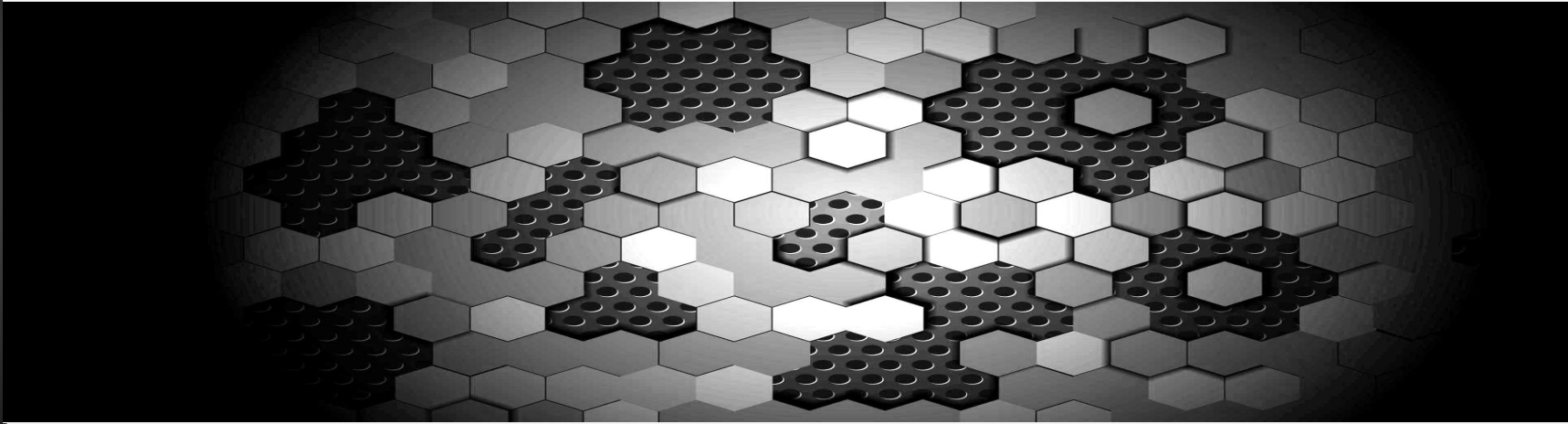
In order to test out, students must adhere to the following parameters and deadlines:

1. Students may request to test out of only those classes they have not already taken (regardless of the grade earned). Once credit is earned through the testing out process, a student may not earn credit for a lower course in that subject's course sequence.
2. Credit is earned if the student earns a C+ (77%) or better on the corresponding course work or combination of examinations as determined by each department. Credit earned will be denoted as "Pass" on student transcripts and will have a neutral impact on the overall grade point average calculation.
3. Requests for test out must be in alignment with student EDPs and are subject to administrative approval.
4. Fully completed/approved request forms must be returned to the Main Office of Kenowa Hills High School by May 15. Testing out examination dates are set to be determined for each school year, but will occur during the summer.

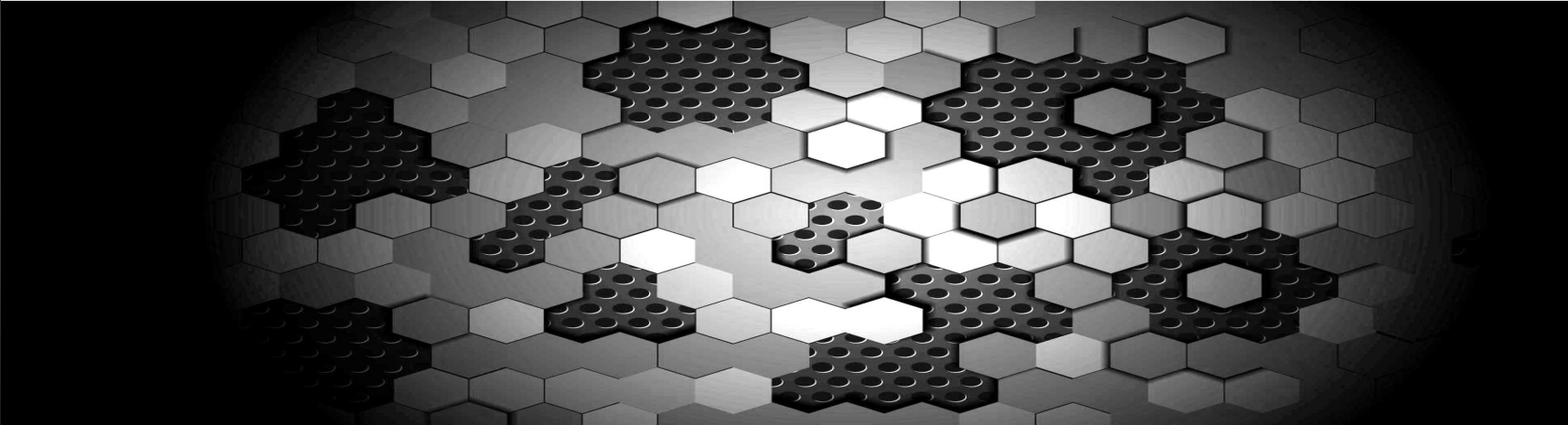


# Standardized Testing

**STANDARDIZED TESTING ACHIEVEMENT** | The State of Michigan requires that all high school juniors take the MSTEP/SAT/Work Keys assessments. Due to this requirement, students must have taken all parts of the MME to be eligible for graduation. The test will be given in the spring on the dates that are set by the State. Kenowa Hills High School also administers the PSAT 9 and PSAT 10 test to all freshmen and sophomores. These tests are used to help prepare for the SAT. Students who do not take the test in a serious manner or intentionally skip the testing period will be subject to disciplinary action.



**PERSONAL CURRICULUM** | A student may request a personal curriculum that modifies a limited number of the Michigan Merit Curriculum requirements. A student is required to develop the personal curriculum with his or her parent or legal guardian and his or her guidance counselor or another qualified designee selected by the high school principal. A personal curriculum must be in keeping with the student's career plan. Revisions to a personal curriculum may be made if they are developed and agreed to in the same manner as the original personal curriculum. The parent or guardian must be in communication with each of the student's teachers at least once each calendar quarter to monitor the student's progress toward the goals in his or her personal curriculum. The personal curriculum must incorporate as much of the subject area content expectations of the Michigan Merit Standard as is practicable; establish measurable goals that the pupil must achieve while enrolled in high school; provide a method to evaluate whether he or she met those goals; and be aligned with the pupil's educational development plan (which a pupil must develop before entering high school, under the bill).



# Per. Curriculum Guidelines

- 4 Years English: NO modifications allowed
- 4 Years Math requirements can be modified if a student:
- Completes at least 3.5 years of math or math-related courses and takes an additional class senior year.
  - Algebra II can be modified by:
    - Completing 3.0 years of math including Algebra II-A
    - Enrolling in career technical education program that includes Algebra II content
- 3 Years Science requirements: NO modification allowed
- 3 Years Social studies:
- NO modification of American Government.
  - A student must complete 2 years; modified only if the student takes additional credits beyond the required credits in English, math, science or world language.
- 2 Years World Language: Students with disabilities affecting language skills may modify this requirement.
- 1 Year Visual, Performing, Applied Arts: A student must take additional credit beyond the required credits in English, math, science or world language.
- 1 Year Physical Education and Health:
- HEALTH: Only if a student takes additional credits beyond the required credits in English, math, science or world language.
  - P.E: Only if a student takes additional credits beyond the required credits in English, math, science or world language.
- 20 hours online experience: NO modification allowed

This is intended to provide general guidance. Due to the complexity of the law, policies and guidance will continue to evolve.

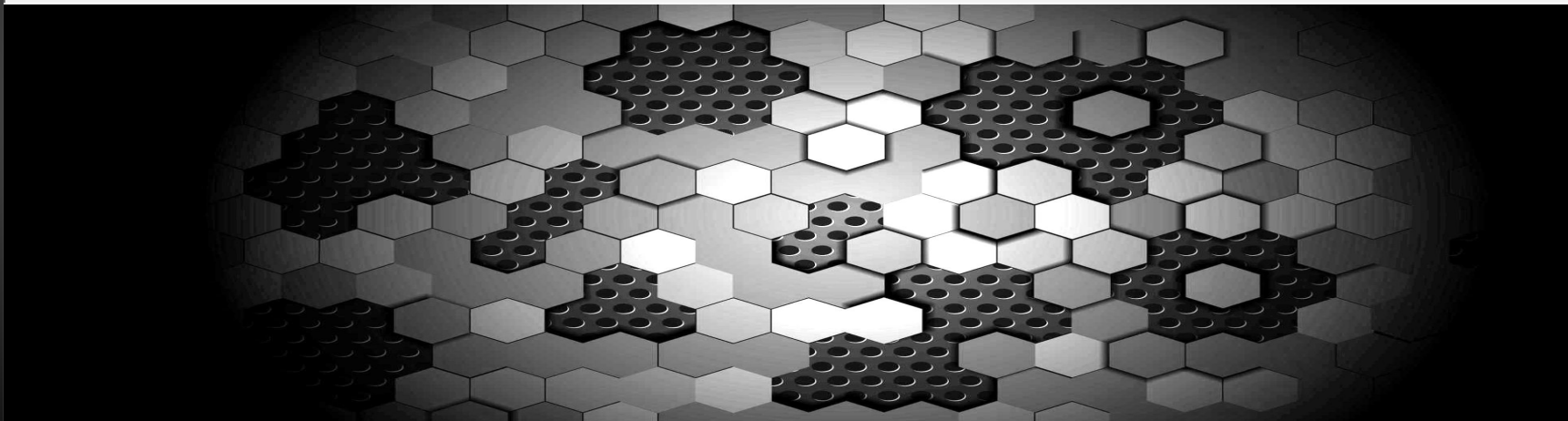




# Dual Enrollment

The State of Michigan established a dual enrollment program to allow students an opportunity to take classes at local colleges. Students are eligible to participate in any grade. The number of courses allowed per year and the maximum of courses allowed varies by grade. The school district assists students in paying tuition (up to a limited amount determined by the Kenowa Hills Public Schools Business Office) for courses at Michigan public or private colleges or universities. Students/Parents are responsible for paying tuition, fees and other expenses that exceed the allowable maximum. Dual enrolled students are still required to take all subject area tests of the Michigan Merit Exam/SAT. The college class must be an academic class not available at the high school and taken during the school year.

Additional information on dual enrollment is available in student services.



# Four-Year Plan



## TENTATIVE FOUR-YEAR PLAN

### 9th GRADE:

#### First Semester

1. English 9 or Honors English 9
2. Algebra I/Geometry
3. Biology or Honors Biology
4. World History & Geography
5. World Language 1 or VPA
6. Physical Education

#### Second Semester

1. English 9 or Honors English 9
2. Algebra I/Geometry
3. Biology or Honors Biology
4. World History & Geography
5. World Language 1 or VPA
6. Health

### 10th GRADE:

#### First Semester

1. English 10 or Honors English 10
2. Geometry/Algebra II
3. Earth Science
4. U.S. History & Geography or AP U.S. History
5. World Language 2 or Additional VPA
6. Elective: \_\_\_\_\_

#### Second Semester

1. English 9 or Honors English 9
2. Algebra or Geometry
3. Intro to Chem or Intro to Physics
4. U.S. History & Geography or AP U.S. History
5. World Language 2 or Additional VPA
6. Elective: \_\_\_\_\_

### 11th GRADE:

#### First Semester

1. English 11 or AP English Literature
2. Algebra II/Math Elective
3. Chemistry or Physics
4. Government or AP Government & Economics
5. Elective: \_\_\_\_\_
6. Elective: \_\_\_\_\_

#### Second Semester

1. English 9 or Honors English 9
2. Algebra or Geometry
3. Chemistry or Physics
4. Economics or AP Government & Economics
5. Elective: \_\_\_\_\_
6. Elective: \_\_\_\_\_

### 12th GRADE:

#### First Semester

1. Career English or College Prep English or AP Language
2. Algebra II/Math Elective
3. Elective: \_\_\_\_\_
4. Elective: \_\_\_\_\_
5. Elective: \_\_\_\_\_
6. Elective: \_\_\_\_\_

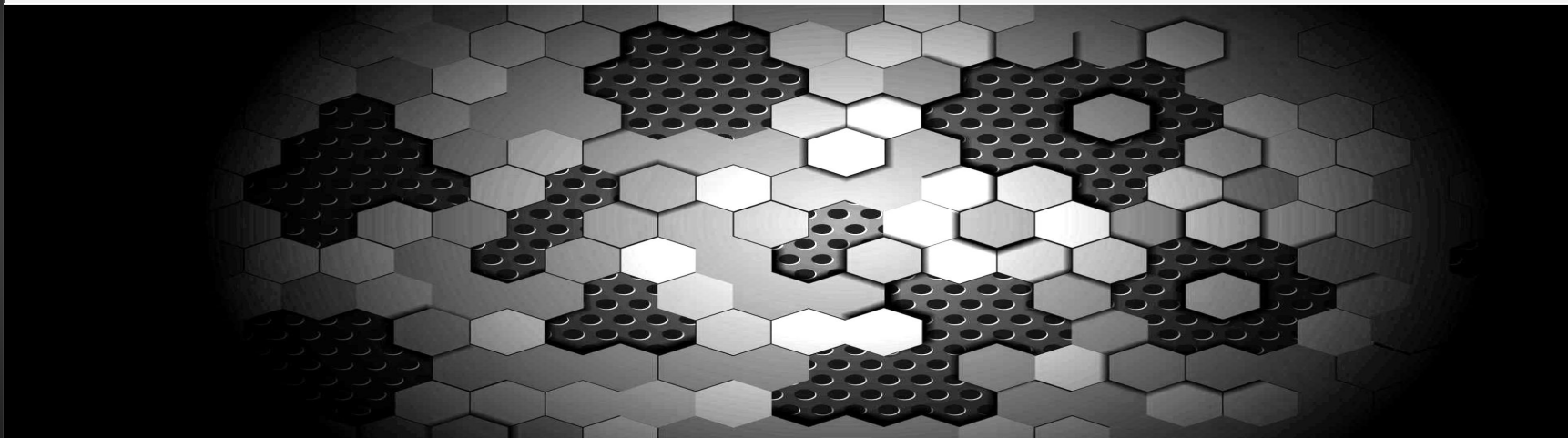
#### Second Semester

1. Career English or College Prep English or AP Language
2. Algebra or Geometry
3. Elective: \_\_\_\_\_
4. Elective: \_\_\_\_\_
5. Elective: \_\_\_\_\_
6. Elective: \_\_\_\_\_



# Schedule Changes

Students should be sure they want to take the classes for which they register. The master schedule is determined by student requests each year. Therefore, the availability to change classes is very limited. Arrangements to change schedules must be made with the counselor during the scheduled drop/add days in August or prior to the start of the second semester. Students must be enrolled in six (6) classes or the equivalent. Schedule changes after the beginning of the semester are permitted **ONLY** within the first five days of class, only with administrative and parent approval, and only in extraordinary circumstances.



For more information and registration, visit the NCAA web site at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net)

NCAA COLLEGE ATHLETIC ELIGIBILITY: Students who wish to participate in athletics at Division I or Division II colleges must be certified by the NCAA Initial-Eligibility Clearinghouse. To be certified students must submit the Student Release Form, a transcript of grades, test scores, and the filing fee to the Clearinghouse.

Students must successfully complete 16 approved-core courses including:

- English: 4 years
- Math: 3 years, must include Algebra II
- Science: 2 years, at least one LAB science
- An Additional English, Math, Science: 1 year
- Social Studies: 2 years
- And Additional approved courses: 4 years

AND have a core-course grade point average and combined ACT/SAT score according to the NCAA index.

For more information and registration, visit the NCAA web site at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net)



## The NCAA Initial Athletic Eligibility

Suggested Program of Study to meet the minimum core courses required by the NCAA.

Students who plan to participate in college athletics at Division I (Michigan State, Central Michigan, University of Michigan, etc.) and Division II (Grand Valley, Ferris, etc.) colleges must meet eligibility rules. This suggested program of study is designed to meet those minimum standards. If a student and/or parents choose not to follow this program study, it may affect the student's eligibility to meet the NCAA's to participate in athletics at a Division I or II college during the student's freshman year.

### Freshman Year

- 1 Composition through Literature 9
- 2 World History
- 3 Algebra I
- 4 Biology
- 5 Elective
- 6 Elective

### Sophomore Year

- 1 American Literature
- 2 U.S. History
- 3 Geometry
- 4 Chemistry or Physics
- 5 Elective
- 6 Elective

### Junior Year

- 1 World Literature
- 2 American Government/Economics
- 3 Algebra II
- 4 NCAA Approved elective in English, math or science
- 5 Elective
- 6 Elective

### Senior Year

- 1 NCAA Approved English electives
- 2 NCAA Approved elective
- 3 NCAA Approved elective
- 4 NCAA Approved elective
- 5 Elective
- 6 Elective





# Kent Career Tech Center

a program of **Kent ISD**

## Program Choices:

- Agriscience for Plants and Animals
- Applied Construction Technology
- Auto Collision Repair
- Automotive Technology/Maintenance Light Repair
- Aviation Maintenance Technology (Satellite Location)
- Aviation Electronics (Satellite Location)
- Criminal Justice
- Diesel & Equipment Technology
- Engineering CAD/Site Design
- Entrepreneurship and Marketing
- Graphic Communications
- Digital Animation and Game Programming
- Health Programs:
  - Health Career Foundations
  - Diagnostic Services
  - Nurse Tech/Patient Care Technician (must be a senior)
  - Emergency MEdical Tech (must be a senior)
  - Medical Assisting (must be a senior)
  - Pharmacy Technician (must be a senior)
  - Biomedical Technology (3.0 GPA | GVSU affiliated | Satellite location)
- Heating, Ventilation, AC & Refrigeration (HVAC-R)
- Hospitality/Culinary
- Mechatronics
- Networking & Cyber Security
- Precision Machining Technology (Satellite Location)
- Teacher Academy
- Welding
- Intro to Career & Technical Education
  - Intro to Automotive
  - Intro to Hospitality
  - Intro to Marketing
- Pre-Vocational Exploration
- Core



# Course Catalog





# Art Dept. Overview

The Art Department offers a range of beginning, intermediate and honors level courses. All courses are designed to develop competency and skill with a variety of art mediums. Elements and principles of design, art history and appreciation, career awareness and self-expression are components of all art classes.

<p><b><u>ADVANCED CERAMIC AND SCULPTURE</u></b> Prerequisite: Successful completion of Foundations of Ceramics and Sculpture</p>	<p><b><u>FOUNDATIONS IN THE ART OF DESIGN</u></b></p>	<p><b><u>FOUNDATIONS IN CERAMICS AND SCULPTURE</u></b></p>
<p><b><u>ADVANCED DRAWING AND PAINTING</u></b> Prerequisite: Successful completion of Foundations of Drawing and Color</p>	<p><b><u>FOUNDATIONS IN ART HISTORY</u></b></p>	<p><b><u>FOUNDATIONS IN DRAWING AND COLOR</u></b></p>
<p><b><u>ART IN PHOTOGRAPHY</u></b></p>		



## ADVANCED CERAMICS AND SCULPTURE

Prerequisite: Successful completion of Foundations in Ceramics and Sculpture

**Semester Long**

**11th-12th Grade**

**VPA or ELE | 0.5 credit**

In this class, students will continue to further techniques already learned. Assignments will become more complex and require problem solving skills. Refinement of working with clay and other materials will be expected. This is where there becomes a strong focus of craftsmanship and the quality of the work put out by each student. Introduction to the potter's wheel will be covered in this class. Self Critiques and peer critiques of work will be incorporated into the class. Research, History, and other written assignments will be required.

## ADVANCED DRAWING AND PAINTING

Prerequisite: Successful completion of Foundations in Drawing and Color

**Semester Long**

**11th-12th Grade**

**VPA or ELE | 0.5 credit**

This course is the next step up from the foundation class. Research and short writings are requirements for this class. Past and present day artist's history and techniques will be studied. This is a studio class dealing primarily with the drawing and painting media and techniques. Color theory, light theory, criticism, and composition principles of design will be the focus. Subject matter will be mainly in original creative ideas, landscapes, human figures, animals, building structures, and still lifes.

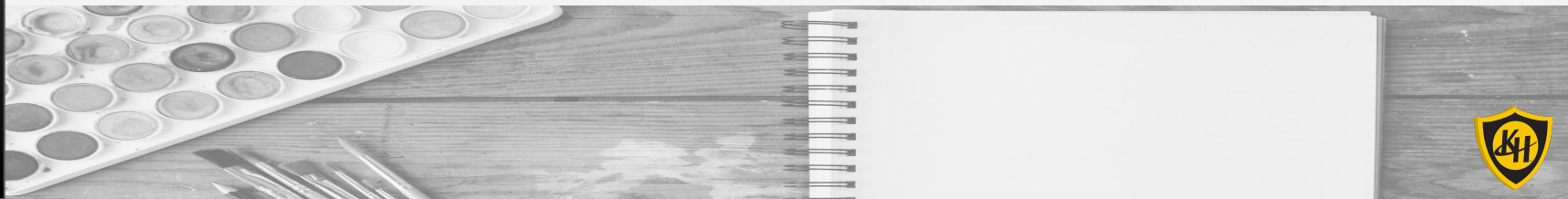
## ART IN PHOTOGRAPHY

**Semester Long**

**10th-12th Grade**

**VPA or ELE | 0.5 credit**

The class focus will be on design concepts for taking successful photos. Students will have opportunities to creatively apply skills in composition, lighting, & processing to create their own artwork. Students will also study the history of Photography, use of photography in everyday life as well as study of iconic photography that makes an impact on society. This is a project based course with some writing and some simple presentations to share work/feedback with classmates. Students will learn photo processing skills using but not limited to iphoto, Pixlr & Photoshop.



# Art Department

## FOUNDATION IN THE ART OF DESIGN

Semester Long

10th-12th Grade

VPA or ELE | 0.5 credit

This class is intended to allow students to dabble in a variety of Art media materials that time does not allow in other existing Art courses, while learning the Design skill content that cannot be fully covered in existing Art classes. In this class there is first a focus on learning Elements and Principles of Art and Design before expanding into media use. Some writing is required. This will allow more options for students to get a beginning VPA credit, as some students will have other creative interests outside of drawing, painting, ceramics, or photography.

## FOUNDATION IN ART HISTORY

Semester Long

10th-12th Grade

VPA or ELE | 0.5 credit

The Introduction to Art History course will provide an understanding and enjoyment of architecture, sculpture, painting, and other art forms within historical and cultural contexts. Most of the student work is in research and presenting topics to the class as well as minimal amounts of hands-on projects. Students will examine major forms of artistic expression from the past and present from a variety of cultures. They will learn to look at works critically, with intelligence and sensitivity, and to analyze what they see. Students will also study the aesthetics of art including understanding the principles and elements and how artists use them to communicate. Students will learn how art encompasses all subject areas including religion, traditional history, science, music, and much more.

## FOUNDATIONS IN CERAMICS AND SCULPTURE

Semester Long

9th-12th Grade

VPA or ELE | 0.5 credit

This is a semester class that focuses on the building techniques of coil, slab, and pinch. Elements of Design covered will be texture, shape, and space. Media will be mainly in clay, but also other materials will be used such as cardboard and wire. Students will be required to learn terms and do written work for this course.

## FOUNDATIONS IN DRAWING AND COLOR

Semester Long

9th-12th Grade

VPA or ELE | 0.5 credit

Introduction to Two Dimensional Art covers basic drawing and painting skills. Focus is mainly on drawing and painting with a variety of art media (materials used to create the art work). Focus is on the Elements of Art and Design: texture, color value, line, shape, and space. Written work is a requirement.



# Business Dept. Overview

The Business Department offers courses that give students a general knowledge of business operations and procedures.

<b><u>ACCOUNTING 1</u></b>	<b><u>GENERAL BUSINESS</u></b>	<b><u>PERSONAL LAW</u></b>
<b><u>ACCOUNTING 2</u></b> Prerequisite: Accounting 1	<b><u>INTERNSHIP</u></b>	<b><u>SALES/ADVERTISING</u></b>
<b><u>DIGITAL MEDIA</u></b>	<b><u>MARKETING</u></b>	<b><u>RECREATIONAL EVENT PLANNING</u></b> Prerequisite: Only students in grades 10-11
<b><u>ENTREPRENEURSHIP</u></b> Prerequisite: General Business or Instructor approval	<b><u>PERSONAL FINANCE</u></b>	



# Business Department

<b>ACCOUNTING 1</b>	<b>Year Long</b>	<b>11th-12th Grade</b>	<b>MTH or ELE   1.0 credit</b>
---------------------	------------------	------------------------	--------------------------------

This course covers all principles of the accounting cycle. Students will begin by using T accounts, then learn procedures such as entering transactions into journals, posting to ledgers, completing worksheets, preparing financial statements, adjustments, and closing entries. Additionally, topics covered include payroll, petty cash, and depreciation. Students will complete most work through online working papers, assessments and simulations. This course is highly recommended for students who are training for many of the business occupations, as well as students planning on pursuing accounting or business related majors at the post-secondary level. Students may elect to receive college credit from GRCC, Baker College or Davenport University upon completion of this course. **This course is an approved 4th year math credit.**

<b>ACCOUNTING 2</b> Prerequisite: Accounting 1	<b>Year Long</b>	<b>12th Grade</b>	<b>MTH or ELE   1.0 credit</b>
---	------------------	-------------------	--------------------------------

As an extension of Accounting I, this course covers more complex concepts in accounting, to provide a more realistic environment to simulate the role of a full-charge accountant. This not only allows the student hands on practical experience with today's office technology and principles. Students may elect to receive college credit from GRCC, Baker College or Davenport University upon completion of this course. **This course is an approved 4th year math credit.**

<b>DIGITAL MEDIA</b>	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>VPA or ELE   0.50 credit</b>
----------------------	----------------------	------------------------	---------------------------------

In this course, students will design, create and publish digital media content for real-world activities. Students will take a hands-on approach to developing content for opportunities happening within the school. Students will learn the different avenues digital content encapsulates, such as vlogs, blogs, podcasts, infographics, videos, websites and social media posts

<b>ENTREPRENEURSHIP</b> Prerequisite: General Business or Instructor approval	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>VPA or ELE   0.50 credit</b>
--	----------------------	------------------------	---------------------------------

What skills and traits do you need to start and own a successful business? In this course you will study the characteristics of successful entrepreneurs. You will also learn about self-employment and basic economic concepts related to small businesses, such as competition and production. Coursework will also guide through the steps of setting up a business, including developing a business plan, a mission and a vision, attracting investors, and marketing your company.



# Business Department

## GENERAL BUSINESS

Semester Long

10th-12th Grade

MTH or ELE | 0.50 credit

In this introductory course, a variety of concepts and terms used in the business world such as stock investments, types of business ownership and franchising are introduced. Financial responsibility concepts are also taught. The curriculum teaches teens how to avoid debt, save intentionally and spend wisely. **This course is an approved 4th year math credit.**

## INTERNSHIP

Semester Long

12th Grade

ELE | 0.50 credit

Internships are career-focused placements with business partners. Internships may be paid or unpaid depending on the company. Students spend one to two hours daily to experience “hands-on” training and to develop employability skills. Students must have a 2.0 GPA and must complete the application process. Grades will be based on course requirements and supervisor evaluations. Students who are considering an internship during the normal 6 period day must have an internship arranged well in advance of the beginning of their senior year. Students are not allowed to work for a parent or guardian in an internship. Job placements are typically sought out by students and are not arranged by school personnel. The job placement must align with the student’s career pathway and the employer must be able to provide documentation of workman’s compensation insurance. **The student must also be taking a high school course concurrently that relates directly to the internship.**

## MARKETING

Semester Long

10th-12th Grade

ELE | 0.50 credit

In this introductory course, foundational concepts will be learned such as what it takes to market a product or service in today’s fast-paced business environment using real-world business examples. Some of the topics covered include: buyer behavior, marketing research principles, distribution, financing, pricing, and product management.

## PERSONAL FINANCE

Semester Long

10th-12th Grade

MTH or ELE | 0.50 credit

Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; evaluate housing costs and options; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions. **This course is an approved 4th year math credit.**



<b>PERSONAL LAW</b>	<b>Semester Long</b>	<b>11th-12th Grade</b>	<b>ELE   0.5 credit</b>
<p>The formation of the legal system and the courts is discussed. Skills in problem solving are stressed along with distinguishing facts from opinions. The responsibilities and rights of every citizen are also covered in regard to contracts, personal property, buying and selling, employment regulations and protections, and insurance. All areas are presented in non-technical terms, well within the experience and understanding of the average young adult. Visits to the area courtrooms will allow students to observe the legal system. Guest speakers will include law enforcement officers, attorneys, and judges.</p>			
<b>RECREATION EVENT PLANNING &amp; ADMINISTRATION</b> Prerequisite: Only students in grades 10-11	<b>Semester Long (2nd only)</b>	<b>10th-11th Grade</b>	<b>VPA or ELE   0.50 credit</b>
<p>Have you ever attended a festival or event and wondered what goes into planning for the event? In this second semester course, students will learn about and plan all of the necessary details to host a multi-day event, the Grand Rapids Gus Macker Tournament, which is held at Kenowa Hills High School. Areas of study include building and managing a budget, sales/advertising/marketing, hospitality (lodging and concessions), customer service, shipping/trucking, site layout, safety/security, group dynamics and emergency/medication planning and preparation. Hosting the yearly Grand Rapids Gus Macker Tournament will be the summative performance assessment for this class</p>			
<b>SALES AND ADVERTISING</b>	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>VPA or ELE   0.50 credit</b>
<p>This introductory course has a focus at the beginning of the course on selling and sales communication techniques. The remainder of the course's focus on types, styles and strategies of advertising. This is intended to be an introductory course highlighting the importance of promotion in the business world.</p>			



MMC Graduation requirement: Four years of ENGLISH classes are required for graduation.

- (one year) English 9 OR Honors English 9
- (one year) English 10 OR Honors English 10
- (one year) English 11 OR AP English Literature & Composition
- (one year) English 12: Career Prep OR English 12: College Prep OR AP English Language & Composition

<u>REQUIRED COURSES</u>		<u>ELECTIVE COURSES</u>	
<p><b><u>ENGLISH 9</u></b> or <b><u>HONORS ENGLISH 9</u></b> Prerequisite: Must have teacher recommendation from 8th grader teacher and/or placement test</p>	<p><b><u>ENGLISH 11</u></b> or <b><u>AP ENGLISH LITERATURE &amp; COMPOSITION</u></b> Prerequisite: "B-" or better in Honors English 10 or teacher recommendation</p>	<p><b><u>APPLIED LANGUAGE ARTS</u></b></p>	<p><b><u>CREATIVE WRITING</u></b></p>
<p><b><u>ENGLISH 10</u></b> or <b><u>HONORS ENGLISH 10</u></b> Prerequisite: "B-" or better in Honors English 9 or teacher recommendation</p>	<p><b><u>ENGLISH 12 CAREER PREP</u></b> or <b><u>ENGLISH 12 COLLEGE PREP</u></b> or <b><u>AP ENGLISH LANGUAGE &amp; COMPOSITION</u></b> Prerequisite: "B-" or better in AP Literature or teacher recommendation</p>	<p><b><u>DEBATE</u></b></p>	<p><b><u>FILM AND LITERATURE</u></b></p>
		<p><b><u>INTRO TO COMMUNICATION</u></b></p>	<p><b><u>FORENSICS</u></b></p>
		<p><b><u>SPEECH</u></b></p>	





**AP ENGLISH LANGUAGE & COMPOSITION**

Prerequisite: "B-" or better in AP Literature or teacher recommendation

**Year Long****12th Grade****ENG | 1.0 credit**

The AP language and Composition course is a college-level freshman writing course that focuses on the analysis of non-fiction texts such as speeches, essays, arguments, etc. The course is writing-intensive and students will write analysis and argumentative essays, both timed and polished. Students will practice and produce a variety of written products for different audiences and purposes. In addition, students will practice and demonstrate proficiency in close and critical reading. The course is also designed to prepare students for the AP Language and Composition test that could potentially earn the student college credit. Assessment of students' abilities is based on their proficiency to read, write, and think at a college freshmen level.

**AP ENGLISH LITERATURE & COMPOSITION**

Prerequisite: "B-" or better in Honors English 10 or teacher recommendation

**Year Long****11th-12th Grade****ENG | 1.0 credit**

AP English Literature is designed to challenge the highly-motivated, academically-inclined student who is interested in preparing for the Advanced Placement exam in English Literature. In addition to providing a thematic study of World Literature from the Renaissance through the present, the course includes the study of a variety of novels, poetry, and short fiction selected from many sources both past and present. The course, which demands a great deal of outside reading as well as in-class assignments, focuses upon determining, analyzing, and synthesizing complex literary elements and themes. Frequent oral and written discussions of such subjects are required.

**APPLIED LANGUAGE ARTS**

Prerequisite: Application process

**Year Long****11th-12th Grade****VPA or ELE | 1.0 credit**

Students will experience the processes involved in the production of multiple printed publications. This will include writing copies, sales, and layouts involved in producing print media. The Senior Video will also be created by students taking this course. ***Class may be repeated.***



# English Department

<b>CREATIVE WRITING</b>	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>VPA or ELE   0.5 credit</b>
<p>This course focuses on several genres of writing to express thoughts, fears, hopes, and messages for various audiences. Students will journal, write poetry, children's stories, short stories, symbolic pieces, and several experimental pieces that compile into a re-invented book. Students will also grow in revision skills and peer evaluation techniques.</p>			
<b>DEBATE</b> Prerequisite: Must have English or Social Studies teacher recommendation	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>VPA or ELE   0.5 credit</b>
<p>Debate is a research driven class, with a strong focus on Policy Debate. The students will focus on a nationally determined resolution (issue), take a stance, research extensively, and debate against other teams. Policy debate is challenging in its structure and terminology, but is also highly engaging and beneficial in teaching skills in critical thinking and public speaking. The last segment of the course is focused on Legislative Debate, in which students will write a bill, present a persuasive (authorship) speech, and attempt to pass their bill into law via congress (the class).</p>			
<b>ENGLISH 9</b>	<b>Year Long</b>	<b>9th Grade</b>	<b>ENG   1.0 credit</b>
<p>This required course will offer instruction in reading, writing, speaking, listening, and research. Students will be introduced to literary forms, including the short story, the novel, drama, and poetry. Students will develop organizational, auditory, and oratorical skills by participating in research, oral presentations, and group and class discussions.</p>			
<b>ENGLISH 10</b>	<b>Year Long</b>	<b>10th Grade</b>	<b>ENG   1.0 credit</b>
<p>This required course will offer a continuation of the instruction begun in English 9. Students will continue to develop skills in reading, writing, speaking, listening, and research. Students will be expected to research global issues as well as to investigate various career opportunities. Students will prepare oral and written presentations as well as participate in class discussions. Through the reading of various short stories, novels, plays, and poetry, students will enhance their understanding of literary forms.</p>			



# English Department

<b>ENGLISH 11</b>	<b>Year Long</b>	<b>11th Grade</b>	<b>ENG   1.0 credit</b>
<p>This course is designed to help students become college and career ready by focusing on nonfiction reading, writing, and analysis with a particular emphasis on rhetoric. Students will continue to develop their reading, writing, speaking, listening, and research skills through the study of informational and persuasive texts, independent reading, and collaboration. This course will also help prepare students for the national and state standardized test administered to junior students in the spring</p>			
<b>ENGLISH 12: CAREER PREP</b>	<b>Year Long</b>	<b>12th Grade</b>	<b>ENG   1.0 credit</b>
<p>Career Prep is designed for students who know they are headed into the workforce or to a trade school after high school. The goal of this course is to prepare students for the next step: life after graduation. This course provides students with real-world writing, communication, reading, listening and speaking skills, as well as vocabulary study. Some of the activities will be writing expository and creative pieces, creating a resume and cover letter, reading non-fiction texts, and writing several thought-provoking assignments geared towards self-reflection. Students will conduct research, write essays, and give presentations. A research presentation is required for this class.</p>			
<b>ENGLISH 12: COLLEGE PREP</b>	<b>Year Long</b>	<b>9th Grade</b>	<b>ENG   1.0 credit</b>
<p>College Prep is designed for students who plan to attend a 2-year or 4-year college or university after graduation. It will help prepare students with the reading, writing, speaking, listening, and research skills necessary to be successful at the collegiate level. Students can expect to produce narrative writing, study and analyze literature, conduct research and report out their findings in writing and presentation forms, and consistently participate in independent reading.</p>			
<b>FILM AS LITERATURE</b>	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>VPA or ELE   0.5 credit</b>
<p>In this course, students will gain a basic understanding of cinematography and use it to analyze films. They will analyze how directors such as Alfred Hitchcock and Steven Spielberg use techniques to develop characters, setting, mood, conflict, and themes. We will also analyze how society's attitudes impact film and audience interpretation, as well as explore various interpretations of the same subject. Students are expected to write several pieces, such as a film review, a scene analysis essay, a formal script, and a comparative essay. They are also expected to create their own film, edit it, and present it. Fun and engaging class!</p>			



<p align="center"><b>FORENSICS</b></p> <p>Prerequisite: Teacher Recommendation</p>	<p align="center"><b>Semester Long (semester 2 only)</b></p>	<p align="center"><b>10th-12th Grade</b></p>	<p align="center"><b>VPA or ELE   0.5 credit</b></p>
--	--	--	--

This course is divided into two categories - six public address events and six dramatic interpretation events. The public address events are sales, informative speeches, oratory (persuasive speeches), broadcasting, impromptu, and extemporaneous. The six interpretive events are prose, poetry, storytelling, dramatic interpretation, duo and multiple. Regardless of the chosen events, students will develop speaking skills, body language awareness, and focal points in order to enhance the impact of their piece.

<p align="center"><b>HONORS ENGLISH 9</b></p> <p>Prerequisite: Must have teacher recommendation from 8th grader teacher and/or placement test</p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>9th Grade</b></p>	<p align="center"><b>ENG   1.0 credit</b></p>
---	--	--	---

This is an elective course for those students who want to work hard as well as enjoy the challenge of studying texts that stretch their thinking. We focus on a few classics, but encourage students to read choice texts throughout the year to grow their minds and endurance in reading. This is a project based course, not a text based course. The strongest measure of success is grit. Prepare to write and read extensively, and to analyze and revise with enthusiasm.

<p align="center"><b>HONORS ENGLISH 10</b></p> <p>Prerequisite: "B-" or better in Honors English 9 or teacher recommendation</p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>10th Grade</b></p>	<p align="center"><b>ENG   1.0 credit</b></p>
--	--	---	---

This class can replace English 10 for those students who meet the prerequisites and wish to pursue AP-level English courses during their 11th and 12th grade years. The course is designed to prepare students with the foundational skills needed to be successful at the AP English level. Students who take this course should be avid readers, have a strong command of language, and enjoy the challenge of academic writing like analysis and research writing. Students will practice and demonstrate proficiency in reading and writing analysis of both nonfiction and fiction texts (including poetry) as well as expository and argumentative pieces.



# English Department

## INTRODUCTION TO COMMUNICATION

Semester Long

10th-12th Grade

VPA or ELE | 0.5 credit

This course is divided into five basic units. The first type students will study is intrapersonal communication, in which they will investigate how family, school, work, gender and so on affect their self-concept. In the interpersonal communications unit, students will analyze person to person communication, reading body language, tone, and facial expressions, etc. In small group communication, students will understand various group roles and participate in a giving project. The fourth unit is a study of public communication and the media's role in communicating with and manipulating public opinion. The final unit project is student choice: sign language, animal communication, etc.

## INTRODUCTION TO DRAMA

Semester Long

10th-12th Grade

VPA or ELE | 0.5 credit

This class is designed to give the aspiring actor or actress an introduction to the world of the theatre. Characterization, improvisation, and pantomime will acquaint the student with basic elements of acting. The class will also examine stage movement, role playing, theatre language and history, and dramatic readings. If possible, the class will visit area theatres and attend theatre productions throughout the Grand Rapids area. Each student will perform a memorized scene at the end of the semester.

## SPEECH

Semester Long

10th-12th Grade

VPA or ELE | 0.5 credit

This course requires students to gain skills and confidence in public speaking. Over the course of the semester, students will work from a 2-minute speech to an 8-minute speech. They will gain a greater understanding of the role of body language, tone, visual aids, use of space, and eye contact in increasing the impact of their message.



# General Electives Overview

The courses listed below offer students a variety of educational experiences. These courses give students the opportunity to explore several career and academic programs that may be of interest.

**ADVANCED PEER TO PEER**

**KENT CAREER TECHNICAL CENTER (KCTC)**

**EXPERIENTIAL LEARNING**

**KNIGHT L.I.F.E. I**

**INTRO TO PEER TO PEER**

**KNIGHT L.I.F.E. II**



# General Electives

<b>ADVANCED PEER TO PEER LINKS</b> Prerequisite: Application and Intro to Peer to Peer	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>ELE   0.5 credit</b>
<p>Advanced Peer to Peer is for students who have completed the Intro to Peer to Peer class and are looking to increase their knowledge of disabilities, gain a greater understanding of people with disabilities and increase leadership skills. The primary responsibility of a Peer to Peer Support Student is to model age appropriate behavior for the student with the I.E.P. The Peer to Peer Support Student may provide peer support to his/her assigned student in the areas of organization, social skills, and academics during the scheduled class period. The LINKS student is expected to participate in training, follow school and classroom expectations, journal weekly, complete a semester-end project, and participate in case-conferences throughout the semester. Advanced Peer to Peer Support Students receive 1/2 elective credit after successfully completing a semester of participation as a peer to peer support. <b><i>This course can be repeated.</i></b></p>			
<b>EXPERIENTIAL LEARNING</b>	<b>Semester Long</b>	<b>12th Grade</b>	<b>ELE   0.5 credit</b>
<p>Students will gain experience working in an educational setting. Organizational, mentoring, tutoring, and interpersonal skills will be developed with a teacher coordinator. Students will spend the first 2-3 weeks of the semester with the teacher coordinator. Students will then be placed in a classroom in the district to work under the direction of a classroom teacher. Students will be expected to complete a training agreement, training plan, and weekly time cards. Students are selected on the basis of their attendance records, reliability, initiative, trustworthiness, and general sense of responsibility. Students must have a 2.0 GPA and complete the application process. Students may not take this course for more than 2 semesters, and no more than 1 hour a day. Teachers may have one assistant each semester. Grades will be based on course requirements and supervisor evaluations.</p>			
<b>INTRODUCTION TO PEER TO PEER LINKS</b>	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>ELE   0.5 credit</b>
<p>The Peer to Peer Support Student is assigned to the program 5 days a week during their scheduled class period. He/she follows the same schedule for one semester. The primary responsibility of a Peer to Peer Support Student is to model age appropriate behavior for the student with the I.E.P. The Peer to Peer Support Student may provide peer support to his/her assigned student in the areas of organization, social skills, and academics during the scheduled class period. The LINKS student is expected to participate in training, follow school and classroom expectations, journal daily, complete a semester-end project, and will participate in case-conferences throughout the semester. Peer to Peer Support Students receive ½ elective credit after successfully completing a semester of participation as a peer to peer support.</p>			



# General Electives

KCTC	Year Long	11th-12th Grade	Credit varies   3.0 credits
------	-----------	-----------------	-----------------------------

Kent Career and Technical Center (KCTC) courses are available to juniors and seniors and are offered by cluster. Students are able to specialize in one specific program of the cluster or experience a combination of programs over a one or two-year period. The clusters/programs are: Most programs at the Kent Career and Technical Center have been articulated to area colleges. This allows a student to begin college course work in a particular career field while still enrolled in high school. Complete information on Kent Career and Technical Center programs is available in Student Services or by calling directly to 364-8421 (Kent Career and Technical Center). Seats are limited in these programs. See a counselor regarding the application process.

### Current KCTC Program Offerings

KNIGHT L.I.F.E. I	Semester Long	10th-12th Grade	ELE   0.5 credit
-------------------	---------------	-----------------	------------------

(Leadership. Innovation. Focus. Education.) Knight L.I.F.E. is a social-emotional learning course where students discover how to become the ideal Kenowa Hills graduate: empowered and informed learners, complex thinkers, responsible collaborators, skilled communicators, and impactful citizens who inspire change and actively work for a better tomorrow. Knight L.I.F.E. Learners utilize their own life story and classroom experiences to enrich dialogue, enhance social awareness, celebrate diversity, and increase empathy both in our school and in our world.

KNIGHT L.I.F.E. II Prerequisite: KNIGHT L.I.F.E. I	Semester Long	10th-12th Grade	ELE   0.5 credit
---	---------------	-----------------	------------------

(Leadership. Innovation. Future. Education.) is a continuation of Knight LIFE I, a social-emotional leadership course where students discover how to become the ideal Kenowa Hills graduate: empowered and informed learners, complex thinkers, responsible collaborators, skilled communicators, and impactful citizens who inspire change and actively work for a better tomorrow. Knight L.I.F.E. II learners utilize their own life story and classroom experiences to enrich dialogue, enhance social awareness, celebrate diversity, and increase empathy both in our school and in our world. Knight LIFE II dives deeper into the competencies introduced in Knight LIFE I and give opportunities for real-world application.








# Math Dept. Overview

MMC Graduation requirement: Four years of mathematics classes are required for graduation, including Algebra II. A mathematics or mathematics related elective course is required during the senior year.

- (one year) Algebra 1
- (one year) Geometry
- (one year) Algebra 2 or Algebra 2-A and Algebra 2-B
- (Senior Year) Required Math Elective Course

REQUIRED COURSES	REQUIRED SENIOR YEAR MATH ELECTIVE COURSES	
<p align="center"><b><u>ALGEBRA 1</u></b></p>	<p align="center"><b><u>ADVANCED ALGEBRA WITH STATISTICS 1</u></b> Prerequisite: Successful completion of Algebra 2</p>	<p align="center"><b><u>GENERAL BUSINESS</u></b></p>
<p align="center"><b><u>GEOMETRY</u></b> Prerequisite: Algebra 1</p>	<p align="center"><b><u>ADVANCED ALGEBRA WITH STATISTICS 2</u></b> Prerequisite: Successful completion of Algebra 2</p>	<p align="center"><b><u>PERSONAL FINANCE</u></b></p>
<p align="center"><b><u>ALGEBRA 2</u></b> Prerequisite: Geometry OR <b><u>ALGEBRA 2-A AND ALGEBRA 2-B</u></b> Prerequisite: Geometry</p>	<p align="center"><b><u>AP CALCULUS A/B</u></b> Prerequisite: Pre-Calculus</p>	<p align="center"><b><u>PRECALCULUS</u></b> Prerequisite: Algebra 2</p>
	<p align="center"><b><u>AP CALCULUS B/C</u></b> Prerequisite: AP Calculus AB</p>	<p align="center"><b><u>STEM ENGINEERING 1</u></b></p>
	<p align="center"><b><u>CYBERSECURITY</u></b></p>	



<p><b>ADVANCED ALGEBRA WITH STATISTICS I</b> Prerequisite: Successful completion of Algebra 2</p>	<p><b>Semester Long</b></p>	<p><b>12th Grade</b></p>	<p><b>MTH or ELE   0.5 credit</b></p>
<p>Advanced Algebra with Statistics I is a general survey of mathematical topics that help a diverse audience, with different backgrounds and career plans, to understand mathematics, and extends some of the ideas explored in Algebra II. The topics include Problem Solving and Critical Thinking; Set Theory; Logic; Number Representation and Calculation; Number Theory and the Real Number System; Algebra; Equations and Inequalities; and Statistics.</p>			
<p><b>ADVANCED ALGEBRA WITH STATISTICS II</b> Prerequisite: Successful completion of Algebra 2</p>	<p><b>Semester Long</b></p>	<p><b>12th Grade</b></p>	<p><b>MTH or ELE   0.5 credit</b></p>
<p>Advanced Algebra with Statistics II is a general survey of mathematical topics that help a diverse audience, with different backgrounds and career plans, to understand mathematics, and extends some of the ideas explored in Algebra II. The topics include: Algebra: Graphs, Functions, and Linear Systems; Consumer Mathematics and Financial Management; Measurement; Geometry; Counting Methods and Probability Theory; Mathematical Systems; Voting and Apportionment; Graph Theory.</p>			
<p><b>AP CALCULUS A/B</b> Prerequisite: Pre-Calculus</p>	<p><b>Year Long</b></p>	<p><b>11th-12th Grade</b></p>	<p><b>MTH or ELE   1.0 credit</b></p>
<p>This class covers trigonometry, algebra, and geometry and their relationships to each other and to calculus. It will include the process of integration and differentiation and their applications to Science and Social Studies.</p>			
<p><b>AP CALCULUS B/C</b> Prerequisite: AP CALCULUS A/B</p>	<p><b>Year Long</b></p>	<p><b>12th Grade</b></p>	<p><b>MTH or ELE   1.0 credit</b></p>
<p>This class is a continuation of Advanced Placement Calculus A/B.</p>			



<b>ALGEBRA 1</b>	<b>Year Long</b>	<b>9th Grade</b>	<b>ALG   1.0 credit</b>
------------------	------------------	------------------	-------------------------

Algebra I builds upon a number of key algebraic topics assumed to have been developed in the middle grades, namely a deep knowledge of linear patterns of change and familiarity with nonlinear patterns such as exponential and quadratic. Algebra will also build on the increasingly generalized approach to the study and representations of functions. This is done by broadening the study of linear relationships to include piecewise functions, systems of equations with three unknowns, formalized function notation and recursive representations, and the development of bivariate data analysis topics. Students will also develop their knowledge of power and polynomial patterns of change and the applications they model. Finally, Algebra I will also expand the students' knowledge of the real number system and the number domain from real to complex numbers.

<b>ALGEBRA 2</b> Prerequisite: Algebra and Geometry	<b>Year Long</b>	<b>11th-12th Grade</b>	<b>ALG2   1.0 credit</b>
--	------------------	------------------------	--------------------------

The goal of Algebra II is to build upon the concepts taught in Algebra I and Geometry while adding new concepts to the students' repertoire of mathematics. Algebra II continues the study of exponential and logarithmic functions and further enlarges the catalog of function families to include rational and trigonometric functions. In addition to extending the algebra strand, Algebra II will extend the numeric and logarithmic ideas of accuracy, error, sequences, and iteration. The topic of conic sections fuses algebra with geometry. Students will also extend their knowledge of univariate and bivariate statistical applications. Note: A few students will be eligible to enroll in Algebra IIA and Algebra IIB for their 11th and 12th grade years. This option is for students who received grades lower than a "C" in Algebra I and Geometry and can only be taken with teacher recommendation.

<b>ALGEBRA 2A</b> Prerequisite: Geometry	<b>Year Long</b>	<b>11th Grade</b>	<b>ALG2 (S1)   0.5 credit</b> <b>ELE (S2)   0.5 credit</b>
---	------------------	-------------------	---

This course will cover the first half of Algebra II in one full school year.

<b>ALGEBRA 2B</b> Prerequisite: Algebra 2A	<b>Year Long</b>	<b>12th Grade</b>	<b>ALG2 (S1)   0.5 credit</b> <b>ELE (S2)   0.5 credit</b>
---	------------------	-------------------	---

This course will cover the second half of Algebra II in one full school year.



<p align="center"><b>GEOMETRY</b> Prerequisite: Algebra</p>	<p align="center">Year Long</p>	<p align="center">10th Grade</p>	<p align="center">GEO   1.0 credit</p>
<p>Geometry builds on a number of key geometric topics developed in the middle grades, namely relationships between angles, triangles, quadrilaterals, circles, and simple three-dimensional shapes. Students studying Geometry in high school further develop analytic and spatial reasoning. They apply what they know about two-dimensional figures to three-dimensional figures. Geometry includes the study of right triangle trigonometry that is developed through similarity relationships. These topics allow for many rich real-world problems to help students expand geometric reasoning skills. It is critical that connections are made between the following topics: algebraic reasoning to geometric reasoning and transformations of linear and quadratic functions to geometric transformations.</p>	<p align="center">Year Long</p>	<p align="center">10th-12th Grade</p>	<p align="center">MTH or ELE   1.0 credit</p>

This course integrates the background students must have to be successful in calculus (advanced work with functions and trigonometry, and introduction to limits and other calculus ideas), with the discrete mathematics (number systems, combinations, recursion, graphs) helpful in computer science. Mathematical thinking, including specific attention to formal logic and proof, is a theme throughout. Pre-Calculus provides the background necessary for any typical calculus course, either at the high school or college level, including those that place a heavy emphasis on proof, and including advanced placement calculus courses at either the AB or BC level.

The image shows a collection of handwritten mathematical notes and diagrams. Key elements include:

- Wave Functions:**  $\psi(x,t) = A \sin(\omega t + \phi)$ ,  $\psi(x,t) = A \cos(\omega t + \phi)$ , and  $\psi(x,t) = A \sin(\omega t + \phi) + A \cos(\omega t + \phi)$ .
- Quantum Mechanics:**  $\hat{H} = a^+ a + \frac{1}{2} = \frac{1}{2} (\hat{x} - i\hat{p})(\hat{x} + i\hat{p}) + \frac{1}{2}$ ,  $\hat{H} = a a^+ - \frac{1}{2}$ ,  $E = mc^2$ ,  $\langle P \rangle = -\frac{\hbar^2}{2m} \int \psi^*(x) \frac{d^2}{dx^2} \psi(x) dx$ ,  $\Delta = \partial^2/\partial x^2 + \partial^2/\partial y^2 + \partial^2/\partial z^2$ ,  $\langle K \rangle = \frac{\int \psi^* \hat{K} \psi}{\int \psi^* \psi}$ ,  $\Delta t' = \Delta t \sqrt{1 - \frac{v^2}{c^2}}$ ,  $E_0 = E + \frac{1}{2} \epsilon + \frac{1}{2} \epsilon_0$ .
- Calculus and Algebra:**  $a^+ a = \frac{1}{2} (\hat{x}^2 + \hat{p}^2 - 1)$ ,  $[a, a^+] = 1$ ,  $a^+ | \phi_n \rangle = \sqrt{n+1} | \phi_{n+1} \rangle$ ,  $a | \phi_n \rangle = \sqrt{n} | \phi_{n-1} \rangle$ ,  $a | \phi_0 \rangle = \frac{1}{\sqrt{n}} a^+ a | \phi_{n-1} \rangle = \frac{1}{\sqrt{n}} (a^+ a + 1) | \phi_{n-1} \rangle = \sqrt{n} | \phi_{n-1} \rangle$ ,  $\langle \psi_0 | \psi \rangle = \int dx \psi_0^*(x) \psi(x)$ ,  $\langle \psi_0 | \psi \rangle = \int dx \psi_0^*(x) \psi(x)$ ,  $\langle \psi_0 | \psi \rangle = \int dx \psi_0^*(x) \psi(x)$ ,  $\frac{d}{dt} \langle \psi | \psi \rangle = 0$ ,  $\frac{d}{dt} \langle \psi | \psi \rangle = 0$ ,  $\frac{d}{dt} \langle \psi | \psi \rangle = 0$ .
- Diagrams:** Several graphs showing wave functions and probability distributions.



# Music Dept. Overview

The Music Department provides creative experiences and performances. The department provides the resources that allow students to become performers and artists as well as students and to provide entertainment for those whose lives are enriched by the arts. Band, Chorale, and Orchestra classes may be repeated for credit.

## ELECTIVE COURSES

<b><u>CHORALE</u></b> Prerequisite: Chorale is available by audition	<b><u>MARCHING BAND</u></b>	<b><u>ORCHESTRA</u></b>
<b><u>CONCERT BAND</u></b>	<b><u>MUSIC APPRECIATION</u></b>	



# Music Department

<p style="text-align: center;"><b>CHORALE</b></p> <p>Prerequisite: Chorale is available by audition</p>	<p style="text-align: center;">Year Long</p>	<p style="text-align: center;">9th-12th Grade</p>	<p style="text-align: center;">JCHA   JCHB VPA or ELE   1.0 credit</p>
<p>Emphasis will continue on improving the singing voice, as well as advanced work in music theory and sight singing. An advanced selection of music will be performed by this select ensemble. Opportunities for vocal competition are provided. Performances are given throughout the year, and each member is required to attend. It should be noted this class is a performance group. <b><i>It should also be understood that extra rehearsals and performances are an important part of the commitment. Absence from these can result in the student's grade suffering. Class may be repeated.</i></b></p>			
<p style="text-align: center;"><b>CONCERT BAND</b></p>	<p style="text-align: center;">Semester Long (2nd)</p>	<p style="text-align: center;">9th-12th Grade</p>	<p style="text-align: center;">VPA or ELE   0.5 credit</p>
<p>Concert Band is open to all band students. This group will perform concert band literature, which will range in difficulty from easy to medium difficult. Performances will include school concerts and possible festival participation. <b><i>It should be noted this class is a performance group. It should also be understood that extra rehearsals and performances are an important part of the commitment. Absence from these can result in the student's grade suffering. Class may be repeated.</i></b></p>			
<p style="text-align: center;"><b>MARCHING BAND</b></p>	<p style="text-align: center;">Semester Long (1st)</p>	<p style="text-align: center;">9th-12th Grade</p>	<p style="text-align: center;">VPA or ELE   0.5 credit</p>
<p>This group concentrates on the performance of music which is visually enhanced by the use of drill (marching) and auxiliary units. The group consists of the block band, which is made up of the wind and percussion players, and the color guard, which uses dance and equipment (flags, rifles, etc.) to visually interpret the music. This band performs many different styles of music. Performances include concerts, contests and festivals, parades, and half-time shows. It should be noted this class is a performance group. <b><i>It should also be understood that extra rehearsals and performances are an important part of the commitment. Absence from these can result in the student's grade suffering. Class may be repeated.</i></b></p>			
<p style="text-align: center;"><b>MUSIC APPRECIATION</b></p>	<p style="text-align: center;">Semester Long</p>	<p style="text-align: center;">10th-12th Grade</p>	<p style="text-align: center;">VPA or ELE   0.5 CREDIT</p>
<p>This course is designed for the student who is not involved in a performance class but would like a music experience or for the student who is involved in a performance class who would like a more in depth look at music. Students will examine basic elements of music including rhythm, melody, and pitch. Other areas will include an overview of the history of music, major composers, how musical instruments produce sound, how the human singing voice works, and various musical styles. If possible, the class will attend various musical experiences throughout the Grand Rapids area.</p>			



ORCHESTRA

Year Long

9th-12th Grade

VPA or ELE | 1.0 credit

Orchestra is a performance based class open to all students who play a string instrument (violin, viola, cello, string bass). This group will rehearse and perform string orchestra and symphony orchestra literature which will range in difficulty from medium difficult to very difficult. Performances will include school concerts, MSBOA festival participation (district and state) and other school and community related performance opportunities. (Wind and percussion players will be selected from Wind Ensemble when needed.) ***It should be noted this class is a performance group. It should also be understood that extra rehearsals and performances are an important part of the commitment. Absence from these can result in the student's grade suffering. Class may be repeated.***





# Phys. Ed. & Health Dept. Overview

MMC Graduation requirement:

- (One semester) PE
- (One semester) Health

## HEALTH

## PEAK PERFORMANCE

Prerequisite: PE and Health

## HEALTH AND FAMILY LIVING

## PHYSICAL EDUCATION

## HEALTH AND NUTRITION

## SPORTS ADMINISTRATION

Prerequisite: PE or PE Waiver





# Phys. Ed. & Health

<b>HEALTH</b>	<b>Semester Long</b>	<b>9th Grade</b>	<b>HTH   0.5 credit</b>
<p>Students must successfully complete one semester of Physical Education and one semester of Health. The Health Education units include Physical Activity, Nutrition, Internet Safety, Gambling Prevention, Character Development, Managing Conflict and Preventing Violence, Solutions for Tobacco, Alcohol and other Drugs, Sun Safety, and STD's/AIDS Education.</p>			
<b>HEALTH AND FAMILY LIVING</b>	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>ELE   0.5 credit</b>
<p>This course focuses on the family and its functions. Students will develop an understanding of family structures, how a family changes over the life cycle, how to effectively relate to others in their family and analyze various family roles, how to balance work and family roles, how to manage family events, and they will develop an understanding of family law. This course will give students insight into how family impacts them personally, as well as the "global" family.</p>			
<b>HEALTH AND NUTRITION</b>	<b>Semester Long</b>	<b>10th-12th Grade</b>	<b>ELE   0.5 credit</b>
<p>Nutrition Education is a course that takes an in depth look at nutrition and how it affects the body. The activities presented assist students in applying current nutrition information to their own lives. Students will plan and modify their diet and appearance, and will learn the relationship between nutrition and exercise. They will also evaluate the nutrient adequacy of meals and learn the functions of nutrients in the body. Using diet analysis computer software, students will set goals for improvement in their overall nutrition and exercise plans. Students will be provided with the background needed to select and prepare foods. They will also learn to modify their lifestyles to promote overall good health.</p>			
<b>PEAK PERFORMANCE</b> Prerequisite: Physical Education and Health	<b>Semester Long</b>	<b>9th-12th Grade</b>	<b>ELE   0.5 credit</b>
<p>This class focuses on developing individual fitness routines specifically tailored to each student. Classroom settings as well as application of the material in the fitness center are utilized to teach the subject. Students receive individual instruction in total body strength training, body core stability, flexibility and agility as well as explosive power, speed and quickness. This class is available to anyone who is interested in learning lifetime fitness concepts and wellness activities. This class may be taken more than once.</p>			



# Phys. Ed. & Health

## PHYSICAL EDUCATION

Semester Long

9th Grade

MPE | 0.5 credit

Students must successfully complete one semester of Physical Education and one semester of Health. This is a prerequisite for enrolling in additional PE classes. This class is taught on a daily alternating basis of physical education and health education. The Physical Education units include Flag Football, Fitness Activities, Soccer, Basketball, Volleyball, Team Handball, Badminton, Floor Hockey, Tennis, Golf and Softball. Grades will be determined by participation, written tests, skills, and dressing out for physical education class.

## SPORTS ADMINISTRATION

Prerequisite: Physical Education or PE Waiver

Semester Long

10th-12th Grade

ELE | 0.50 credit

Is a course designed for the students to become certified officials for interscholastic volleyball AND basketball. The course will follow the LEGACY program designed by the Michigan High School Athletic Association (MHSAA) to develop knowledge, skills and competencies in order to become a certified official. (delete the following sentence as we will now offer Basketball AND volleyball officiating in the same semester) The fall semester (September-January) will focus on Volleyball and the Spring Semester (January/June) will focus on basketball. These courses are open to Juniors and Seniors who have successfully completed a semester of PEAK Performance, or with approval of the Department Chair.



# Science Department Overview

MMC Graduation requirement: Three years of SCIENCE classes are required for graduation. Including:

- (one year) Biology OR Honors Biology
- (one year) Earth Science AND Intro to Chemistry OR Earth Science AND Intro to Physics,
- (one year) Chemistry OR Physics.

Through a variety of courses, students will learn to apply scientific skills in problem solving as well as apply scientific principles to everyday life. Students will develop an inquiry approach to the study of science through laboratory experiences.

<u>REQUIRED COURSES</u>	<u>ELECTIVE COURSES</u>	
<p align="center"><u>BIOLOGY</u> or <u>HONORS BIOLOGY</u></p>	<p align="center"><u>AP BIOLOGY</u> Prerequisite: Successful completion of Biology AND Chemistry with an "A" or "B"</p>	<p align="center"><u>HONORS EARTH SCIENCE</u></p>
<p align="center"><u>EARTH SCIENCE and INTRO TO CHEMISTRY</u> or <u>EARTH SCIENCE and INTRO TO PHYSICS</u> or <u>HONORS EARTH SCIENCE</u></p>	<p align="center"><u>AP CHEMISTRY</u> Prerequisite: B+ or higher in General Chemistry</p>	<p align="center"><u>HONORS PHYSICS</u> Prerequisite: Must have completed Algebra 2 with a "C" or better and must have passed Physical Science.</p>
<p align="center"><u>CHEMISTRY</u> Prerequisite: Algebra I, Biology and Earth Science / Intro to Physics or Honors Earth Science or <u>PHYSICS</u></p>	<p align="center"><u>CRIMINALISTICS</u> Prerequisite: Successful completion of Biology</p>	<p align="center"><u>HUMAN ANATOMY AND PHYSIOLOGY</u> Prerequisite: Must have a "C" or better in Biology</p>
	<p align="center"><u>ENVIRONMENTAL SCIENCE</u> Prerequisite: "C" or better in Biology and 10th grade science</p>	



## AP BIOLOGY- DAPBA | B

Prerequisite: Successful completion of Biology with an "A" or "B" AND Chemistry with an "A" or "B"

**Year Long**

**11th-12th Grade**

**ELE | 1.0 credit**

In addition to these requirements, it is highly recommended that students have good writing and math skills. Advanced Placement Biology will seek to meet the objectives of a general biology course at the college level. The AP Biology course will be divided into three broad areas: Molecular and Cellular Biology, Heredity and Evolution, and Population Biology. A college level textbook will be used and laboratory experiences will be an integral part of this course. It is expected that students will take the national AP Biology exam in May. If a student scores well on the examination, most colleges will give credit for up to eight hours of college freshman biology. Students who choose to take the AP exam will do so at their own expense.

## AP CHEMISTRY

Prerequisite: B+ or higher in General Chemistry

**Year Long**

**11th-12th Grade**

**ELE | 1.0 credit**

AP Chemistry® is an intense rigorous college level chemistry course. General Chemistry is a prerequisite for the course and it is recommended that students should have earned a B+ or higher in general Chemistry before undertaking the course. AP Chemistry® takes an inquiry based approach to learning about chemistry and it is expected that about 25% of our time will be spent on extended lab investigations. The regular chemistry course prepares you for doing some of the basic problem solving involved in AP Chemistry®, while this course will spend more time learning the fundamental causes and theories behind the previously learned chemistry content. Preparing and maintaining a lab notebook and running detailed analysis of experimental results will be required of all students in order to prepare them for a college chemistry lab setting. Those students interested in pursuing chemistry or related fields that require college level chemistry will benefit the most from this course. Whether or not the AP exam is passed this course serves as a good preparatory tool to ease students into a college chemistry setting.

## BIOLOGY

**Year Long**

**9th Grade**

**BIO | 1.0 credit**

Biology is a science in which all living things and their processes are investigated. Biological concepts are taught to aid the student in understanding and appreciating the diversity of his/her biotic and abiotic environment. An emphasis is placed on cellular activities, genetics, and critical thinking. Laboratory experiments, demonstrations, films, and projects all help to achieve this goal. This class will cover all of the essential NGSS standards.



# Science Department

## CHEMISTRY

Prerequisite: Algebra I, Biology and Earth Science /  
Intro to Physics or Honors Earth Science

**Year Long**

**11th-12th Grade**

**CHM/PHY | 1.0 credit**

This class is a study of the composition of substances in our world and the changes that take place in them. The course is designed to familiarize the student with these changes and to help him/her understand them. In addition, the course tends to encourage the habit of scientific thinking. Laboratory experiments, demonstrations, lectures, and hands-on experience will help to achieve these goals. Chemistry is the basis for many other science fields and is a great course for any student interested in pursuing a career in science. Chemistry involves a great deal of applied mathematics and logical reasoning. It is highly recommended that students have a strong math/science background.

## CRIMINALISTICS

Prerequisite: Successful completion of Biology

**Semester Long**

**10th-12th Grade**

**ELE | 0.5 credit**

Criminalistics is a one semester crime scene investigation class. The emphasis in the class is on laboratory work that would typically be done by a crime scene investigator. Attention will be put on evidence collection and processing, as well as logical reasoning and validity of evidence and methods. Topics include: Fingerprinting, Time of Death Estimates (livity, temp, rigor mortis, entomology), Hair/Fiber/Particulate Analysis, Ballistics & Blood Spatter, and DNA analysis. Each unit will include labs & activities, and most assessments are a mix between content knowledge and lab skills. The entire course is framed as a murder mystery where we frame one of the students for the crime and plant evidence to be collected throughout the semester as we learn new topics.

## EARTH SCIENCE

**Semester Long**

**10th Grade**

**SCI | 0.5 credit**

Earth Science is an introductory level one semester course in the earth sciences. The class covers five areas of study, the Geologic History of Earth, Space Systems, Earth's Systems and Cycles, Weather and Climate, and Human Impact. Emphasis in this course is placed on a general understanding of the major principles of each topic area in earth science. Particular attention is given to human impact on the Earth in order to guide the development of an informed citizenry.



# Science Department

<b>ENVIRONMENTAL SCIENCE</b> Prerequisite: "C" or better in Biology and 10th grade science	<b>Year Long</b>	<b>11th-12th Grade</b>	<b>ELE   1.0 credit</b>
<p>If you like science and being outdoors, this is the course for you. The fall semester covers ecology and the relationships between living things. The class goes outside several days a week, weather permitting, holding class in the Knight Hike nature trail on our campus. We also take some field trips to local streams and the dunes in Hoffmaster State Park on Lake Michigan. In the spring semester we focus on important environmental issues like climate change, alternative energy, and water. Outdoor activities in the second semester include maple sap collecting, working on projects in the Knight Hike nature trail on campus and a field trip to a DNR fish hatchery.</p>			
<b>HONORS BIOLOGY</b>	<b>Year Long</b>	<b>9th Grade</b>	<b>BIO   1.0 credit</b>
<p>This course is designed to meet the needs of students who are looking for a more in depth study of biological concepts and advanced laboratory skills paced at an academically challenging level. It will dive more extensively into biological concepts and provide students with a variety of laboratory experiences to prepare them to take advanced placement courses in the future. In this course we will be studying the processes of life and the interconnectedness of living things while building scientific thinking and procedures in order to think more critically and explore deeper. Topics covered will include biochemistry, cellular structure and function, genetics, ecology, and evolution.</p>			
<b>HONORS EARTH SCIENCE</b>	<b>Year Long</b>	<b>10th Grade</b> (fulfills science requirement) <b>11th-12th Grade</b> (elective credit)	<b>SCI or ELE   1.0 credit</b>
<p>This year long course is designed as a college-level geology class that takes the place of the general overview Earth Science Class. Students will take a deeper look into the geologic principles that build and test their understanding of how the Earth works. This class will focus on geological hazards (volcanism, earthquakes, flooding), weathering, erosion, glaciers, origin of minerals and rocks, groundwater and the geological history of Earth. Students will be given practical experience which includes various labs and activities, identifying common rocks and minerals, reading topographic and geologic maps and in depth preparation for the GVSU college credit exam. Emphasis is placed on laboratory experience and skills as well as more in depth study of the geology specific to Michigan.</p>			



# Science Department

<b>HONORS PHYSICS</b> Prerequisite: Must have completed Algebra 2 with a "C" or better and must have passed Physical Science.	<b>Year Long</b>	<b>11th-12th Grade</b>	<b>PHY or ELE   1.0 credit</b>
<p>This course qualifies for the third year of science credit for graduation and covers all of the core material for physics plus additional material to prepare students to take physics at the college level. Principles are developed through inquiry, lectures, problems, demonstrations and laboratory investigation. It is advised that students also be enrolled in Pre-Calculus or higher.</p>			
<b>HUMAN ANATOMY AND PHYSIOLOGY</b> Prerequisite: Must have a "C" or better in Biology	<b>Year Long</b>	<b>11th-12th Grade</b>	<b>ELE   1.0 credit</b>
<p>This course is a close examination of the human body, its systems, functions, disorders and health education. Advanced dissection will happen continually throughout the year and is required. This class is designed to prepare upperclassmen students to have sufficient knowledge and exposure to enter a collegiate biological science course of study and is recommended for students planning to go into the health professions after high school.</p>			
<b>INTRODUCTION TO CHEMISTRY</b>	<b>Semester Long</b>	<b>10th Grade</b>	<b>SCI   0.5 credit</b>
<p>This one semester course covers the basic content for Chemistry based on the Next Generation Science Standards (NGSS). Course topics include Elements and the Periodic Table, Formulas, Equations, Types of Reactions, Nuclear Reactions, Thermodynamics and Chemical Equilibrium. This class will prepare students for the workplace, college courses and the Michigan Merit Exam (MME) given to all juniors in Michigan.</p>			
<b>INTRODUCTION TO PHYSICS</b>	<b>Semester Long</b>	<b>10th Grade</b>	<b>SCI   0.5 credit</b>
<p>This one semester course covers the basic content for Physics based on the Next Generation Science Standards (NGSS). Course topics include Newton's Laws, Work, Power, Energy, Waves (sound, Light, Electromagnetic Spectrum) and Electricity and Magnetism. The class will prepare students for the workplace, college courses and the Michigan Merit Exam (MME) given to all juniors in Michigan.</p>			





## PHYSICS

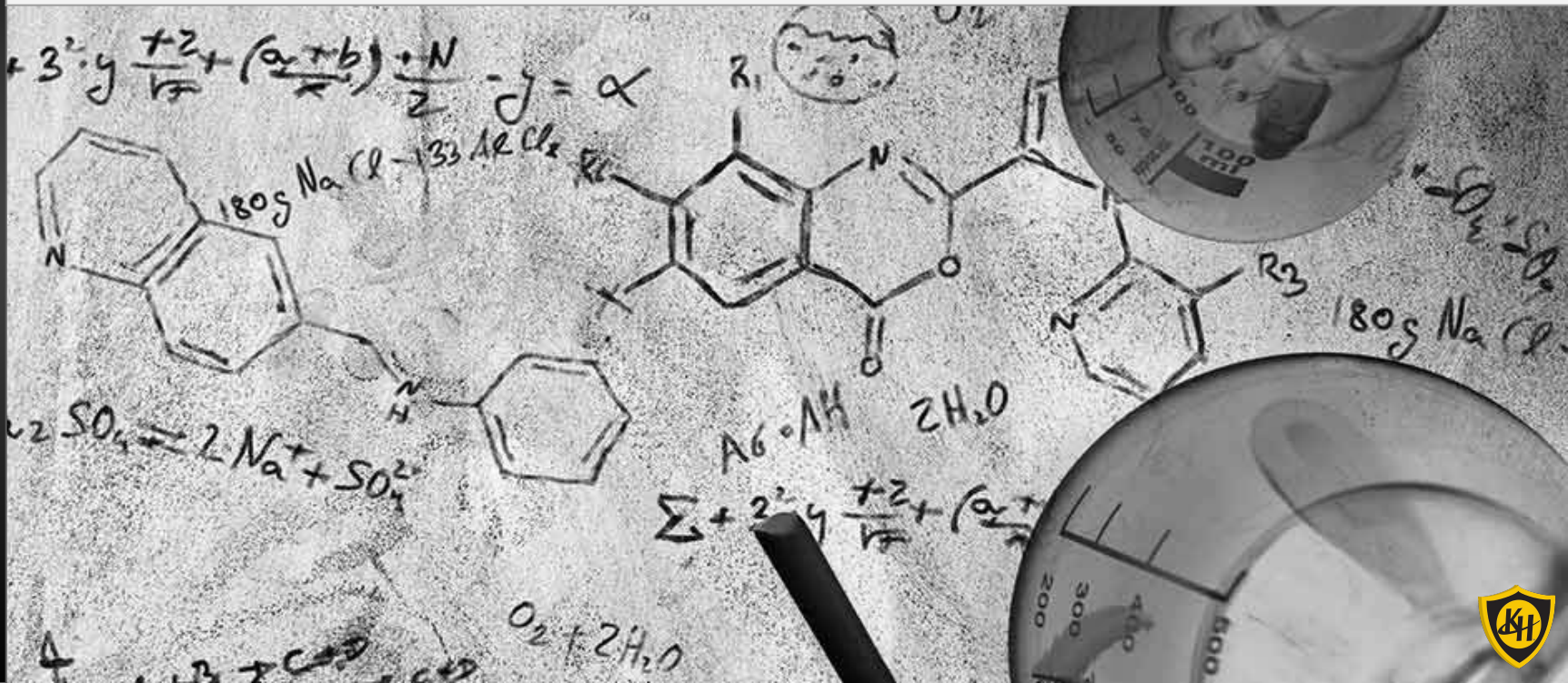
Notice: Students who have completed Algebra 2 with a "C" or higher are encouraged to enroll in either honors Physics or Chemistry instead of this course

Year Long

11th-12th Grade

CHM/PHY | 1.0 credit

This course qualifies for the third year of science credit for graduation and covers all of the core material for physics. Physics covers the topics of mechanics, kinetic theory, electromagnetism, waves, relativity and modern physics. The social and philosophical implications, and the utility and limitations of physics for the solution of problems in the modern world will also be explored. Principles are developed through lectures, demonstrations and lab activities.






MMC Graduation requirement: Three years of SOCIAL STUDIES classes are required for graduation. Including:

- (one year) World History
- (one year) United States History OR A.P. American History
- (one semester) American Government AND (one semester) Economics
  - (one year) AP American Government and Economics

The Social Studies department provides students with the skills and knowledge needed to function as useful citizens by giving them an understanding of themselves and the world around them.

<b><u>REQUIRED COURSES</u></b>	<b><u>ELECTIVE COURSES</u></b>	
<b><u>WORLD HISTORY</u></b>	<b><u>AP PSYCHOLOGY</u></b> Prerequisite: Psychology 1 or teacher's permission, Advanced Algebra recommended	<b><u>UNDERSTANDING SPORTS THROUGH HISTORY</u></b>
<b><u>UNITED STATES HISTORY</u></b> OR <b><u>AP UNITED STATES HISTORY</u></b> Prerequisite: World History, U.S. History	<b><u>PSYCHOLOGY</u></b>	<b><u>WAR AND PEACE</u></b>
	<b><u>SOCIAL PSYCHOLOGY</u></b>	
<b><u>ECONOMICS</u></b> Prerequisite: World History, U.S. History OR <b><u>AP GOVERNMENT AND ECONOMICS</u></b> Prerequisite: World History, U.S. History		
<b><u>GOVERNMENT</u></b> Prerequisite: World History, U.S. History OR <b><u>AP GOVERNMENT AND ECONOMICS</u></b> Prerequisite: World History, U.S. History		



<b>AP GOVERNMENT &amp; ECONOMICS- CAPGEA B</b>	<b>Year Long</b>	<b>11th-12th Grade</b>	<b>GOV/ECN   1.0 credit</b>
--	------------------	------------------------	-----------------------------

The course framework within this course and exam description is a model of political and ideological balance. It will not only help students understand the U.S. Constitution and the political system but will also help them become informed citizens who are willing to preserve, protect, and defend the rights and liberties at the core of our nation’s charter. That is why we are delighted to partner with College Board on a series of classroom lessons and materials that support instruction in AP U.S. Government and Politics and help bring balanced constitutional content to students across America.

<b>AP PSYCHOLOGY</b>	<b>Year Long</b>	<b>12th Grade</b>	<b>ELE   1.0 credit</b>
----------------------	------------------	-------------------	-------------------------

Advanced Placement Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will study psychological experiments and results, principles, and phenomena associated with each of the major subfields within psychology. Students will also learn about the ethics and methods psychologists use to study behavior.

<b>AP UNITED STATES HISTORY- CAPUSA B</b> Prerequisite: Successful completion of World History with a “C+” or better AND written recommendation from World History instructor	<b>Year Long</b>	<b>10th-12th Grade</b>	<b>USH or ELE   1.0 credit</b>
--	------------------	------------------------	--------------------------------

This course will be a two-semester course examining US History from the time of the American Revolution through present day. It will also be run as an introductory college course in United States History. Students will be asked to express their academic understanding in a variety of ways including, but not limited to, critical thinking, persuasive writing, investigative research, document analysis, interpretive reading, and synthesis of ideas. Reading and writing will be integral parts of this course and much of the reading will draw from college level texts. Students should be prepared for the additional time needed for this course. This course will also help prepare students for the Advanced Placement exam, which is given toward the end of the school year.



ECONOMICS- CE	Semester Long	11th-12th Grade	ECN   0.5 credit
<p>This is a semester Economics course covering the High School Content Expectations set forth by the Michigan Department of Education. Major topics will be: The Market Economy: (Individual, Business, and Government choices 1.2 Competitive Markets 1.3 Prices, Supply and Demand 1.4 Role of Government in the Market) The National Economy: (2.1 Understanding National Markets 2.2 Role of Government in the United States Economy) International Economy: (3.1 Economic Systems 3.2 Economic interdependence—trade) and Personal Finance: (4.1 Decision Making). Additionally, this course will focus on critical thinking, organizational skills, decision making, and the formation of well-supported, persuasive opinions.</p>			
GOVERNMENT- CG	Semester Long	11th-12th Grade	GOV   0.5 credit
<p>This semester course will focus on Federalism as it is applied to the structure and function of government in the United States. There will be an emphasis on the interrelationship of historical, political, geographic, economic and decision-making forces, using real-life examples and issues. Students will analyze decisions and events and will produce projects of their own creation.</p>			
PSYCHOLOGY	Semester Long	11th-12th Grade	ELE   0.5 credit
<p>Psychology involves the study of the individual and his/her efforts to learn, remember and solve problems. Studying psychology can provide useful insights into the student’s own and other people’s behavior. Psychology is a class open to average and above average students in the eleventh and twelfth grades. The course of study will include the study of emotions, motivation, learning processes, psychological testing and abnormal behavior. This class will also deal with the life span and the physical, emotional, intellectual, and social adjustments made during childhood, adolescence and adulthood.</p>			
SOCIAL PSYCHOLOGY	Semester Long	11th-12th Grade	ELE   0.5 credit
<p>An introduction to the scientific study of social behavior and social influences on behavior with the goal of preparing students to interact with friends, family, and other community members. Theories and research will cover such topics as: ways people are influenced, stereotypes and prejudice, conformity and obedience to authority, helping behaviors, conflict and aggression, attraction, and love.</p>			



<p><b>UNDERSTANDING SPORTS THROUGH HISTORY</b> Prerequisite: World History, U.S. History, can be taken concurrently with American Government and/or Economics</p>	<p><b>Semester Long</b></p>	<p><b>10th-12th Grade</b></p>	<p><b>ELE   0.5 credit</b></p>
<p>This history elective will examine the development of sports. Our historical study will focus on helping students gain a better understanding of the inner relationship that sports has on social, economic, cultural, and political forces that are at work in the United States as well as the world. We will examine the historical context as well as the significance of race, gender, ethnicity, and social class. We will do our historical investigation through readings, primary sources, audio, and visual materials as well as class discussions.</p>			
<p><b>UNITED STATES HISTORY</b></p>	<p><b>Year Long</b></p>	<p><b>10th Grade</b></p>	<p><b>USH   1.0 credit</b></p>
<p>This one-year course is designed as a survey of the significant developments in America's past. Specific attention is given to the growth of American society and the emergence of the United States as a world power. After completing the course, students will be able to: identify some of the major themes in American life as demonstrated in the specific events of our past; trace the territorial expansion of the U.S. and how it eventually became recognized as a world power; demonstrate the ways in which the national government was seen as a vehicle for positive change and as a threat to liberty; and demonstrate, through practice, the basic skills of an historian.</p>			
<p><b>WAR AND PEACE</b></p>	<p><b>Semester Long</b></p>	<p><b>11th-12th Grade</b></p>	<p><b>ELE   0.5 credit</b></p>
<p>War and Peace is a semester long course that examines in detail the origins and impact of wars from the 20th Century to the present, and of the continual quest for peace.</p>			
<p><b>WORLD HISTORY - CWHA B</b></p>	<p><b>Year Long</b></p>	<p><b>9th Grade</b></p>	<p><b>WH   1 credit</b></p>
<p>This full-year course is divided into 2 semesters with a total of 8 thematic units. These units are organized by focal social studies themes present throughout history. Emphasis will be focused on understanding the political, social and cultural, scientific and economic events and figures that have shaped the world as we know it today. The course will focus on critical thinking, organizational skills, decision making, and the formation of well-supported, persuasive logic and reasoning. The goal for this survey level course is to prepare students for the rigorous requirements of their future classes. Other areas of focus will be character development such as: improving work ethic, developing collaborative skills, challenging oneself with reading, writing, thinking more critically, and lastly accountability.</p>			



# Technology & STEM Dept. Overview

<p><b><u>CYBERSECURITY</u></b></p>	<p><b><u>STEM ENGINEERING 1</u></b></p>	<p><b><u>STEM ENGINEERING CAPSTONE</u></b> Prerequisite: Engineering 3</p>
<p><b><u>STEM ACADEMY FOR ELECTIVE SCIENCE (EARTH &amp; PHYSICS)</u></b> Prerequisite: 3D CAD 1 &amp; 2</p>	<p><b><u>STEM ENGINEERING 2</u></b> Prerequisite: Engineering 1 or 1 year of the HS STEM Academy</p>	
<p><b><u>STEM ACADEMY FOR GEOMETRY</u></b> Prerequisite: Application is required</p>	<p><b><u>STEM ENGINEERING 3</u></b> Prerequisite: Engineering 2 or 2 years of the HS STEM Academy</p>	



# Technology & STEM Department

<p align="center"><b>CYBERSECURITY</b></p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>10th-12th Grade</b></p>	<p align="center"><b>VPA or ELE   1.0 credit</b></p>
<p>This course introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students’ knowledge of and commitment to ethical computing behavior. <b>This course is an approved 4th year math credit.</b></p>			
<p align="center"><b>STEM ACADEMY FOR ELECTIVE SCIENCE (EARTH AND PHYSICS)</b> Prerequisite: Application is required</p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>9th-10th Grade</b></p>	<p align="center"><b>VPA or ELE   2.0 credits</b> (1 credit VPA or ELE 1 credit in SCI)</p>
<p>This innovative and student-centered learning experience offers our students a partnership between Earth Science and Physics curriculum standards and real-life, hands-on projects that will help prepare them for college or career. The Knights STEM Academy’s project-based learning approach provides real-world experiences built on the crucial link between academic achievement and future success. Content and projects are based on science, technology, engineering, and math (STEM). Students use 3D printing, laser cutting, wood working, and CNC machining to build rockets, ukuleles, game boards, and disaster-proof cities. The Gone Boarding curriculum has also been incorporated which allows students to build and, if they choose, ride snowboards.</p>			
<p align="center"><b>STEM ACADEMY FOR GEOMETRY</b> Prerequisite: Application is required</p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>9th-10th Grade</b></p>	<p align="center"><b>VPA or ELE   2.0 credits</b> (1 credit VPA or ELE 1 credit in GEO)</p>
<p>This innovative and student-centered learning experience offers our students a partnership between Geometry curriculum standards and real-life, hands-on projects that will help prepare them for college or career. The Knights STEM Academy’s project-based learning approach provides real-world experiences built on the crucial link between academic achievement and future success. Content and projects are based on science, technology, engineering, and math (STEM). Students use 3D printing, laser cutting, wood working, and CNC machining to build gliders, stained glass windows, catapults, and pinball mini golf games. The Gone Boarding curriculum has also been incorporated which allows students to build and, if they choose, ride stand up paddle boards.</p>			



# Technology & STEM Department

<b>STEM ENGINEERING 1</b>	<b>Year Long</b>	<b>10th-12th Grade</b>	<b>MTH or ELE   1.0 credit</b>
<p>This is an introductory engineering class. Students will learn the foundational skills in Computer Aided Drafting (CAD) as it applies to 3D modeling and parametric design. Students will learn about the design thinking process. Students will also be introduced to 3D printing, laser cutting, and programming of analog/digital components like LED's and sensors. Students will use these skills to complete both individual and group projects. <b>This course is an approved 4th year math credit.</b></p>			
<b>STEM ENGINEERING 2</b> Prerequisite: Engineering 1 or 1 year of the HS STEM Academy	<b>Year Long</b>	<b>10th-12th Grade</b>	<b>VPA or ELE   1.0 credit</b>
<p>This is a second year engineering class. Students will continue to build on their CAD skills creating more complex designs while taking into consideration the design thinking model. Students will utilize these advanced skills to solve problems that are more real-world in nature that are related to several fields of engineering including mechanical and civil. Students will gain additional understanding of coding by integrating hardware into their designs that include motors, servos and sensors.</p>			
<b>STEM ENGINEERING 3</b> Prerequisite: Engineering 2 or 2 years of the HS STEM Academy	<b>Year Long</b>	<b>11th-12th Grade</b>	<b>VPA or ELE   1.0 credit</b>
<p>This is a third year engineering class. Students will utilize all of their CAD and programming skills to solve more complex projects that incorporate the physics that are applied in engineering. Students will primarily work in teams to solve engineering problems using the design thinking model.</p>			
<b>STEM ENGINEERING CAPSTONE</b> Prerequisite: Engineering 3	<b>Year Long</b>	<b>12th Grade</b>	<b>VPA or ELE   1.0 credit</b>
<p>This is a year long capstone course for seniors. The students will participate in a year long design/build process to create an original product from start to finish. Students will go through all aspects of the design process from creating their problem statement, research and data collection, design &amp; modeling, prototyping and final product build (when able). Students will present their projects to a panel several times throughout the course</p>			



MMC Graduation Requirement: Two years of World Language are required for graduation.

World language classes provide instruction in reading, writing, speaking, and understanding the foreign language as well as a study of the culture. In today's world, the ability to communicate in another language offers many advantages to students seeking employment or further study. In addition, research has shown that world language students develop a greater understanding of the structure of their own language and develop a broader vocabulary in English.

<b><u>FRENCH 1</u></b>	<b><u>SPANISH 1</u></b>
<b><u>FRENCH 2</u></b> Prerequisite: French 1	<b><u>SPANISH 2</u></b> Prerequisite: Spanish 1
<b><u>FRENCH 3</u></b> Prerequisite: French 2	<b><u>SPANISH 3</u></b> Prerequisite: Spanish 2
<b><u>AP French</u></b> Prerequisite: French 3	<b><u>SPANISH 4</u></b> Prerequisite: Spanish 3
	<b><u>AP SPANISH</u></b> Prerequisite: Spanish 4





<p><b>FRENCH 1- FF1A B</b></p>	<p><b>Year Long</b></p>	<p><b>9th-12th Grade</b></p>	<p><b>WL   1.0 credit</b></p>
<p>French I is an introduction to a new and fascinating world. Students will begin to develop skills in listening, speaking, reading, and writing French. Emphasis will be placed on oral communication as students are expected to participate daily in the target language. The study of French culture and its influence on our way of life will also be stressed.</p>			
<p><b>FRENCH 2 - FF2A B</b> Prerequisite: French 1</p>	<p><b>Year Long</b></p>	<p><b>10th-12th Grade</b></p>	<p><b>WL   1.0 credit</b></p>
<p>More emphasis will be placed on grammar and vocabulary, with additional practice in reading and writing. Students are expected to speak and to hear French the majority of the time. Oral exams and dialogues will be given frequently. Studies of French culture will be included throughout the course.</p>			
<p><b>FRENCH 3- FF3A B</b> Prerequisite: French 2</p>	<p><b>Year Long</b></p>	<p><b>9th-12th Grade</b></p>	<p><b>WL or ELE   1.0 credit</b></p>
<p>French III will focus on improving oral and written communication and listening skills. Emphasis will be placed on the expansion of vocabulary and comprehension through the use of various media such as newspapers, magazines, videos, tapes, and French literature. Students will be expected to participate daily in the target language.</p>			
<p><b>AP French- FF4A B</b> Prerequisite: "C" or better in French 3</p>	<p><b>Year Long</b></p>	<p><b>11th-12th Grade</b></p>	<p><b>WL or ELE   1.0 credit</b></p>
<p>The class will consist of advanced grammar studies through written and oral activities. Teacher and students will communicate in the target language. Students will practice and work collaboratively with their classmates to improve their communication in the target language. Students will extend their writing capabilities through compositions. Students will read various French novels, short stories, poetry, newspapers, classic/modern skits, presentations, discussions, debates, and projects. Teacher will monitor progress and encourage independent thought and practice. Students will study culture, history, societal issues, current events, history, politics, and other issues of the Francophone world.</p>			



<p align="center"><b>SPANISH 1</b></p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>8th-12th Grade</b></p>	<p align="center"><b>WL   1.0 credit</b></p>
<p>Spanish I is an introduction to a new and fascinating world. Students will begin to develop skills in listening, speaking, reading, and writing Spanish. Emphasis will be placed on oral communication as students are expected to participate daily in the target language. The study of Spanish culture and its influence on our way of life will also be stressed</p>			
<p align="center"><b>SPANISH 2</b></p> <p>Prerequisite: Successfully passed Spanish 1 with a "C-" or above*</p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>9th-12th Grade</b></p>	<p align="center"><b>WL   1.0 credit</b></p>
<p>Spanish II will be a continuation of Spanish I. More emphasis will be placed on grammar and vocabulary, with additional practice in reading and writing. Students are expected to speak and to hear Spanish the majority of the time. Oral exams and dialogues will be given frequently. Studies of Spanish culture will be included throughout the course.</p>			
<p align="center"><b>SPANISH 3</b></p> <p>Prerequisite: successfully passed Spanish 2 with a "C-" or above*</p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>10th-12th Grade</b></p>	<p align="center"><b>WL or ELE   1.0 credit</b></p>
<p>Spanish III will focus on improving oral communication and listening skills. In order to do this, realia in the form of magazines, newspapers, tapes and videos will be utilized. Also, selections from Spanish literature will help to expand vocabulary and comprehension.</p>			
<p align="center"><b>SPANISH 4**</b></p> <p>Prerequisite: successfully passed Spanish 3 with a "C-" or above*</p>	<p align="center"><b>Year Long</b></p>	<p align="center"><b>11th-12th Grade</b></p>	<p align="center"><b>WL or ELE   1.0 credit</b></p>

This class is designed as a continuation of Spanish III, focusing on all 5 areas in more depth without the focus of the class being on the AP test. Students will study in a more relaxed atmosphere than in an AP class; however, since it is an advanced class, there are high expectations. Students who feel they are not strong enough to take Advanced Placement Spanish but enjoy the Spanish language would be able to take this class. If a Spanish IV student wanted to take the AP test in the spring, he/she would be able to do so. This class will be conducted 90% in Spanish.



## AP SPANISH

Prerequisite: successfully passed Spanish 3 with a "C-" or above\*

Year Long

10th-12th Grade

WL or ELE | 1.0 credit

This course is designed for students who have successfully completed three years of high school Spanish. It stresses oral skills, composition, and grammar. Students will be expected to comprehend formal and informal spoken Spanish, read accurately modern Hispanic literature as well as newspaper and magazine articles, compose expository passages, and express ideas orally with accuracy and fluency. Advanced Placement Spanish will seek to meet the objectives of a Spanish course at the college level. College level materials will be used. At the completion of one year, an AP student can take an AP examination to demonstrate college level achievement. If the student scores well on the examination, most colleges will give him/her credit up to eight hours of college Spanish. Students who choose to take the AP exam will do so at their own expense

### Additional Notes

\*\*Spanish 3 students can test out and/or speak to the teacher if they have an A in the class and are a Junior and would like to take AP Spanish instead of Spanish 4

\*All upper level Spanish classes can be taken, however, if parent signs a waiver and has discussed with teacher the student's past situation from the previous Spanish class.

