

# MULVANE HIGH SCHOOL

*HOME OF THE  
WILDCATS*



**2013-2014**

**CURRICULUM GUIDE**

*Revised 3/12/13*

*The courses a student selects in high school may have a great deal to do with the kind of work, the amount of income and the kind of post high school education they will have as adults. Careful planning is necessary if the student is to gain the most from the high school experience. Each student is encouraged to discuss course selection with parents, counselors, and teachers and to know college, vocational school, or job requirements before making final course selections.*

**Please note that course offerings are subject to change prior to final enrollment.**

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***MHS Basic Graduation Requirements***  
**Class of 2014**

<b>English</b>	<b>4 ½ Credits</b>
English 1	1 credit
English 2	1 credit
English 3	1 credit
English 4 or AP Comp/Lit	1 credit
Speech	½ credit
<b>Science</b>	<b>3 Credits</b>
Biology	1 credit
Elective Science	1 credit
Elective Science	1 credit
<b>Social Science</b>	<b>3 Credits</b>
World Studies	1 credit
American Studies	1 credit
US Civics/Topics	1 credit
<b>Physical Education</b>	<b>1 Credit</b>
Health	½ credit
PE	½ credit
<b>Business Technology</b>	<b>1 Credit</b>
Word Processing	½ credit
Elective Business Tech. Credit	½ credit
<b>Math</b>	<b>3 Credits</b>
(Choose any 3 math courses)	
<b>Fine Arts</b>	<b>1 Credit</b>
(See appropriate courses)	
<b>Electives</b>	<b>7 ½ Credits</b>

**TOTAL 24 CREDITS**

***USD 263 requires 24 credits and eight (8) semesters of attendance in grades 9-12 for high school graduation.***

- **Classification of a student as a sophomore, junior, or senior will be based upon the total number of high school credits earned by the student prior to the first day of class each school year.**

**CLASSIFICATION MINIMUMS**

Sophomore...5.00 credits and 2 semesters completed  
 Junior.....11.00 credits and 4 semesters completed  
 Senior.....17.00 credits and 6 semesters completed

## Requirement Comparisons (Class of 2014)

Subject	Mulvane Graduation Requirements	Kansas Regents Qualified Admissions Curriculum	Kansas Scholars Curriculum
English	<b>(4 1/2 Credits)</b> English 1 English 2 English 3 Eng 4 or AP Comp/Lit Speech	<b>(4 Credits)</b> Mulvane graduation requirements fulfill this minimum requirement.	<b>(4 Credits)</b> Mulvane graduation requirements fulfill this minimum requirement.
Math	<b>(3 Credits)</b> Choose any three courses in the math department.	<b>(3 Credits)</b> Choose three courses in the math department. (Algebra 1 or higher) Algebra 1 in the 8th grade <u>does not</u> count towards this requirement.	<b>(4 Credits)</b> Choose four courses in the math department. (Algebra 1 or higher) Algebra 1 in the 8th grade <u>does</u> count towards this requirement.
Science	<b>(3 Credits)</b> Biology 2 elective science	<b>(3 Credits)</b> Mulvane graduation requirements fulfill this if one elective is chemistry <u>or</u> physics <b>Not Approved for QA</b> Physical Science (does count for MHS graduation)	<b>(3 Credits)</b> Biology Chemistry Physics
Social Studies	<b>(3 Credits)</b> World Studies American Studies US Civics/Topics	<b>(3 Credits)</b> Mulvane graduation requirements fulfill this minimum requirement.	<b>(3 Credits)</b> Mulvane graduation requirements fulfill this minimum requirement.
Physical Education	<b>(1 Credit)</b> Health (1/2 credit) PE (1/2 credit)	<b>(No Credits Required)</b>	<b>(No Credits Required)</b>
Business Technology	<b>(1 Credit)</b> Word Processing (1/2 credit) Business Elective(1/2 credit)	<b>(No Credits Required)</b>	<b>(No Credits Required)</b>
Fine Arts	<b>(1 Credit)</b> Choose from the list of Fine Arts elective courses	<b>(No Credits Required)</b>	<b>(No Credits Required)</b>
Additional Credits (Courses) Required	<b>(7 1/2 Credits)</b> Elective courses	<b>(No Credits Required)</b>	<b>(2 Credits)</b> Foreign language (must be two years of the same language)

**MHS Basic Graduation Requirements**  
**\*\*\*\*Class of 2015 and beyond\*\*\*\***

<b>English</b>	<b>4 Credits</b>
English 1	1 credit
English 2	1 credit
English 3	1 credit
English 4 or AP Comp/Lit	1 credit
<b>Science</b>	<b>3 Credits</b>
Biology	1 credit
Elective Science	1 credit
Elective Science	1 credit
<b>Social Science</b>	<b>3 Credits</b>
World Studies	1 credit
American Studies	1 credit
US Civics/Topics	1 credit
<b>Physical Education</b>	<b>1 Credit</b>
Health	½ credit
PE	½ credit
<b>Career &amp; Technical Education</b>	<b>1 Credit</b>
Business Essentials	½ credit
Elective CTE Credit	½ credit
<b>Math</b>	<b>3 Credits</b>
(Choose any 3 math courses)	
<b>Fine Arts</b>	<b>1 Credit</b>
(See appropriate courses)	
<b>Electives</b>	<b>8 Credits</b>

**TOTAL 24 CREDITS**

***USD 263 requires 24 credits and eight (8) semesters of attendance in grades 9-12 for high school graduation.***

- **Classification of a student as a sophomore, junior, or senior will be based upon the total number of high school credits earned by the student prior to the first day of class each school year.**

**CLASSIFICATION MINIMUMS**

Sophomore...5.00 credits and 2 semesters completed  
 Junior.....11.00 credits and 4 semesters completed  
 Senior.....17.00 credits and 6 semesters completed

**Requirement Comparisons**  
(Class of 2015 and beyond)

Subject	Mulvane Graduation Requirements	Kansas Regents Qualified Admissions Curriculum	Kansas Scholars Curriculum
English	<b>(4 Credits)</b> English 1 English 2 English 3 Eng 4 or AP Comp/Lit	<b>(4 Credits)</b> Mulvane graduation requirements fulfill this minimum requirement.	<b>(4 Credits)</b> Mulvane graduation requirements fulfill this minimum requirement.
Math	<b>(3 Credits)</b> Choose any three courses in the math department.	<b>(3 Credits)</b> Choose three courses in the math department. (Algebra 1 or higher) Algebra 1 in the 8th grade <u>does not</u> count towards this requirement.	<b>(4 Credits)</b> Choose four courses in the math department. (Algebra 1 or higher) Algebra 1 in the 8th grade <u>does</u> count towards this requirement.
Science	<b>(3 Credits)</b> Biology 2 elective science	<b>(3 Credits)</b> Mulvane graduation requirements fulfill this if one elective is chemistry <u>or</u> physics	<b>(3 Credits)</b> Biology Chemistry Physics
Social Studies	<b>(3 Credits)</b> World Studies American Studies US Civics/Topics	<b>(3 Credits)</b> Mulvane graduation requirements fulfill this minimum requirement.	<b>(3 Credits)</b> Mulvane graduation requirements fulfill this minimum requirement.
Physical Education	<b>(1 Credit)</b> Health (1/2 credit) PE (1/2 credit)	<b>(No Credits Required)</b>	<b>(No Credits Required)</b>
Career & Technical Education	<b>(1 Credit)</b> Bus Essentials (1/2 credit) CTE Elective(1/2 credit)	<b>(No Credits Required)</b> <i>May use for additional elective</i>	<b>(No Credits Required)</b>
Fine Arts	<b>(1 Credit)</b> Choose from the list of Fine Arts elective courses	<b>(No Credits Required)</b> <i>May use for additional elective</i>	<b>(No Credits Required)</b>
Additional Credits (Courses) Required	<b>(8 Credits)</b> Elective courses	<b>(3 Credits)</b> Check for approved lists	<b>(2 Credits)</b> Foreign language (must be two years of the same language)

## Requirements beyond graduation

Every option after graduation has admission requirements. These requirements may change periodically, please make sure you use the most current information. We are providing the entrance requirements for the six Kansas Regents Schools, the requirements to apply for a Kansas sponsored scholarship and the requirements for NCAA and NAIA.

### Qualified Admissions

Students applying to any of the six Kansas Regents universities (Emporia State, Fort Hays State, Kansas State, Pittsburg State, University of Kansas, and Wichita State) must meet **one** of the following requirements to qualify for admission:

1. Complete the Qualified Admissions Curriculum with at least a 2.0 GPA. **OR**
2. Achieve a composite ACT score of 21 or above or an SAT score of 980 (critical reading and math) or above. **OR**
3. Rank in the top 1/3 of your high school graduating class.

*\*\*\*\* Qualified Admissions requirements are changing beginning Fall 2015\*\*\*\*  
For more information visit [http://www.kansasregents.org/qa\\_requirements](http://www.kansasregents.org/qa_requirements)*

### Kansas Scholars' Curriculum

Students interested in applying for the Kansas Ethnic Minority Scholarship, Kansas State Scholarship, the Kansas Teacher Service Scholarship, or the Kansas Nursing Service Scholarship should follow the curriculum requirements for Kansas Scholars'. In addition to completing the curriculum a student must take the ACT between April of the junior year and December of the senior year.

### NCAA Eligibility

Students must register during the spring semester of their Junior year. Registration and printed materials can be found on the clearinghouse webpage at [www.eligibilitycenter.org](http://www.eligibilitycenter.org).

### DIVISION I Requirements

- ✓ Graduate
- ✓ Complete 16 Core-Courses:
  - 4 years of English
  - 3 years of mathematics (Algebra 1 or higher) 8<sup>th</sup> grade Algebra 1 does not count
  - 2 years of natural/physical science (1 year of lab minimum)
  - 1 year of additional English, mathematics, or natural/physical science.
  - 2 years of social science.
  - 4 years of additional courses (from any area above or foreign language)
- ✓ Earn a minimum required grade-point average in your core courses; **and**
- ✓ Earn a combined SAT or ACT sum score that matches your core-course GPA and test score sliding scale.

## **DIVISION II Requirements**

- ✓ Graduate
- ✓ Complete 14 Core-Courses:(Division II will require 16 core beginning Aug. 1, 2013)
  - 3 years of English
  - 2 years of mathematics (Algebra 1 or higher) 8<sup>th</sup> grade Algebra does not count
  - 2 years of natural/physical science (1 year of lab minimum)
  - 2 additional years of English, math, or natural physical science.
  - 2 years of social science.
  - 3 years of additional core courses (from any area above or foreign language)
- ✓ Earn a 2.0 GPA or better in your core courses; and
- ✓ Earn a combined SAT score of 820 or an ACT sum score of 68. There is no sliding scale in Division II.

## **NAIA Eligibility**

Beginning fall of 2011 student/athletes must register to play at NAIA schools. For a list of NAIA schools and registration information visit the NAIA webpage at [www.playnaia.org](http://www.playnaia.org).

## **NAIA Requirements**

- ✓ Meet **two** of the three following requirements
  - Achieve a minimum of 18 on the ACT or 860 on the SAT
  - Achieve a minimum high school cumulative GPA of 2.0 on a 4.0 scale
  - Graduate in the top half of your high school class.

## **College Admissions Tests and Pre-college Assessments**

### **PLAN**

The PLAN is a practice test for the ACT which also provides information to assist students in their career and college planning. MHS makes this test available during fall semester for sophomores. The student must pay a fee.

### **PSAT/NMSQT**

The PSAT is a practice test for the SAT which is also used to determine National Merit Scholar semi-finalists. The test is available primarily to juniors; sophomores may take it. The PSAT is given at MHS. The student must pay a fee.

### **SAT**

The SAT is a college entrance examination, generally taken during the junior and/or senior year. Students receive a critical reading score, a math score, and a writing score. The SAT is not offered at MHS but is given in the area. The student must pay a fee.

### **ACT**

The ACT is a college entrance examination. Earning a 21, or higher, composite score on this test is one of three ways to meet Qualified Admissions requirements. Students receive scores in English, Reading, Math and Science Reasoning, as well as a composite score. We highly recommend that students who plan to further their education after high school take this test at least once. The ACT is offered at MHS three times during the school year, and at other locations two additional times. The student must pay a registration fee.

# Career and Technical Education

The Career and Technical Education department currently offers 8 career pathways. Students who complete 3 credits in a pathway are considered “Concentrators” by the state of Kansas. These courses are designed to prepare students for a career in a specific trade. Note: some courses are designated in more than one pathway.

## Design & Pre-Construction

- *Drafting CAD 1 (.5 credit)*
- *Drafting CAD 2 (.5 credit)*
- Architecture Design 1 (.5 credit)*
- Architecture Design 2 (.5 credit)*
- *Residential Carpentry 1 (1 credit)*
- *Cabinetmaking & Furniture Design 1(1 credit)*
- Advanced Studies in Architecture Design (.5 credit)*

## Production

- *Drafting CAD 1 (.5 credit)*
- *Drafting CAD 2 (.5 credit)*
- Production Welding Processes 1 (1 credit)*
- Production Welding Processes 2 (1 credit)*
- Mass Production 1 (1 credit)*
- Mass Production 2 (1 credit)*

## Family & Community Services

- *Career and Life Planning (.5 credit)*
- Nutrition & Wellness (.5 credit)*
- Family Studies (.5 credit)*
- Human Growth & Development (.5 credit)*
- Consumer and Personal Finance (.5 credit)*
- Career & Community Connections (1 credit)*

## Health Science

- Health Science I (1 credit)*
- Human Body Systems (A & P) (1 credit)*
- Care of Athletes (.5 credit)*
- AP Biology (1 credit)*
- Health Science III (1 credit)*

## Construction

- *Residential Carpentry 1 (1 credit)*
- Residential Carpentry 2 (1 credit)*
- *Cabinetmaking & Furniture Design 1(1 credit)*
- Cabinetmaking & Furniture Design 2 (1 credit)*
- Electrical & Security Systems (.5 credit)*
- HVAC & Plumbing Systems (.5 credit)*

## Visual Arts

- *Career and Life Planning (.5 credit)*
- Photo Imaging (.5 credit)*
- Essentials of Interior & Textile Design (.5 credit)*
- Interior & Textile Merchandising (.5 credit)*
- Career & Community Connections (1 credit)*

## Business Entrepreneurship & Management

- *Business Essentials (.5 credit)*
- Business Economics (.5 credit)*
- Business Management (.5 credit)*
- Entrepreneurship (.5 credit)*
- Accounting (1 credit)*
- Web Page Design (1 credit)*
- Applied Business Development (1 credit)*

## AV Communications

- *Business Essentials (.5 credit)*
- 21<sup>st</sup> Century Journalism (.5 credit)*
- Audio/Video Production Fundamentals (.5 credit)*
- Video Production (KCAT)(1 credit)*
- Digital Media Design Production (Cat Tracks/Yearbook)(1 credit)*
- Project Management & Resource Scheduling (1 credit)*

Mulvane high school offers articulation agreements with a variety of post-secondary institutions. For more information on current articulation agreements please talk to your CTE teacher.

**Bold course title indicates new course for 2013-2014 school year.**

- Indicates the course can be designated in more than one pathway.

For more information about Career Clusters and Pathways visit  
[www.ksde.org](http://www.ksde.org) or [www.kansascareerpipeline.org](http://www.kansascareerpipeline.org)

## **COLLEGE AND EARLY RELEASE OPTIONS FOR SENIORS**

**Semester One:** Classes will be determined, and juniors will receive written information during spring enrollment before their senior year.

Seniors will have the opportunity to enroll in and complete a three-credit college course through Cowley County Community College during the fall semester of their senior year. The course will be offered during their 8<sup>th</sup> hour class period, unless otherwise announced. Students will provide their own transportation to CCCC on Main Street to attend. Students and/or parents are responsible for any and all costs associated with this course. Students must meet CCCC Admissions requirements in order to enroll in a college courses. Because this is a dually-enrolled course, the grade the students receive in their college class will be posted to their MHS transcript. If students fail to attend class, or they are removed from the class for any reason, the grade in the course will be posted as an “F,” and the student will be enrolled in a course at MHS for no credit.

**Semester Two:** **Dual Credit College Courses** - classes will be determined, and students will receive written information.

Seniors will have the opportunity to enroll in and complete as many college courses as their academic and extra-curricular schedules will allow. The times of classes will depend on which institution the student attends. Courses may be taken at Cowley County, Butler County, WSU, or others chosen by students. For each three-credit hour course a student takes, he/she may take one class period off from MHS; for each five-credit hour course student takes, he/she may take two class periods off from MHS. Students who participate in a Kansas State High School Activities’ Association-governed activity must take a minimum of 5 (.50 credit) courses. Dual credit college courses do count towards this KSHSAA rule.

### **Senior Opportunity for Accelerated Release (SOAR)**

1. The senior must not be short on graduation credits.
2. Students must pass required senior courses during the first semester. Those who do not pass will be required to remain at MHS all hours necessary to complete graduation requirements.
3. Students participating in any activity governed by the KS State High School Activities Association (KSHSAA) including athletics, music competitions, forensics, debate, Scholars’ Bowl, cheerleading, or dance must be enrolled in 5 courses total, and each course must be worth .50 credit. These 5 classes could be taken as a combination between MHS classes and dual credit college classes. Any college course being taken for dual credit must be declared at the beginning of the semester. Senior English and U.S. Government/History Topics and any other course required for graduation must be taken at MHS.
4. Courses at MHS would not have to be taken in consecutive hours.
5. Parental permission to attend fewer than eight hours is required.
6. Valedictorian and Salutatorian honors are based on a minimum of 27 credits earned during four years of high school.
7. The student is responsible for getting any necessary information from our high school regarding graduation details.
8. All attendance policies will be enforced in regards to this policy. If a student misses the mandated limit of classes, he/she may lose credits and jeopardize graduation.
9. Any of the above requirements are subject to review by the high school principal.

## **DUAL CREDIT COLLEGE CLASS INFORMATION**

- Students who declare dual-credit classes must enroll in one three-credit hour college class for each class period of release from MHS.
- Students who drop a declared college class will have that class listed on their MHS transcript with a recorded grade of “F.” Dropping a course may also affect eligibility for KSHSAA activities.
- The student must present proof of payment of college fees prior to the second day of the beginning of the MHS semester, or the student will be required to drop the college class and enroll in a course at MHS.
- The student is responsible for presenting an official copy of the grade report for college classes to MHS. At the end of 30 days, if no grade report is presented, the grade will revert to an “F” on the student’s high school transcript.
- Students are responsible for the college tuition costs, book fees, and all other related college course costs. Prior written approval by the MHS principal is required before a student enrolls in dual-credit college classes.
- The policy applies to all seniors and to students admitted to the Extended Learning Program at MHS who have college courses indicated on their IEP.

### **The Scheduling Process**

The scheduling process is the shared responsibility of the students, parents, teachers and counselors. Since students’ educational decisions now will impact post-high school education and eventual career choices, careful planning is a must. Parents should assist students in the selection process by discussing alternatives with students and by helping them analyze their individual interests, needs and goals. Teachers and counselors are available to discuss specific curriculum with students in an effort to help students understand their options.

Students will be provided with this document as well as the appropriate paper work necessary for enrollment. Please pay close attention to deadlines, as schedules are loaded into our automated scheduler and a student who fails to meet their enrollment deadline is not guaranteed their selected courses.

Enrollment is based on students’ choices. Low enrollment, conflicting schedules or other issues may result in the deletion of a course. It is important that students choose their alternate courses wisely.

**\*\*\* All courses in this book are subject to change prior to final enrollment\*\*\***

### **Dropping or adding classes**

Even with careful course selection it is sometimes necessary to make a request for a schedule change. Please follow the guidelines listed below if you would like to make a change to a student schedule.

Schedule changes will only be allowed for the following reasons:

- failing a prerequisite
- an error in enrollment made by the Counseling Department
- adding a class required for graduation
- administrative/teacher request

**Such changes must be requested to the Counseling Department within the first two days after a semester begins. These requests must be made in writing with parent approval.**

Plan of Study for \_\_\_\_\_ Date \_\_\_\_\_

Future Career Goal \_\_\_\_\_ Pathway Interest \_\_\_\_\_

**FRESHMAN (9<sup>TH</sup> GRADE)**

<b>1<sup>ST</sup> Semester Courses</b>	<b>Cr.</b>	<b>2<sup>ND</sup> Semester Courses</b>	<b>Cr.</b>
Advisory		Advisory	
English 1		English 1	
Math -		Math -	
9 <sup>th</sup> Health		9 <sup>th</sup> PE	
Biology		Biology	

**SOPHOMORE (GRADE 10)**

<b>1<sup>ST</sup> Semester Courses</b>	<b>Cr.</b>	<b>2<sup>ND</sup> Semester Courses</b>	<b>Cr.</b>
Advisory		Advisory	
English 2		English 2	
Math -		Math -	
Science -		Science -	
World Studies		World Studies	

**JUNIOR (GRADE 11)**

<b>1<sup>ST</sup> Semester Courses</b>	<b>Cr.</b>	<b>2<sup>ND</sup> Semester Courses</b>	<b>Cr.</b>
Advisory		Advisory	
English 3		English 3	
American Studies		American Studies	
Science -		Science -	
Math -		Math -	

**SENIOR (GRADE 12)**

<b>1<sup>ST</sup> Semester Courses</b>	<b>Cr.</b>	<b>2<sup>ND</sup> Semester Courses</b>	<b>Cr.</b>
Advisory		Advisory	
English -		English -	
U.S. History Topics/Civics		U.S. History Topics/Civics	

\_\_\_\_\_  
(Parent Signature)

\_\_\_\_\_  
(Student Signature)

**\*\*\* All courses are subject to change prior to final enrollment\*\*\***

**LANGUAGE ARTS DEPARTMENT**

<b>Course Title</b>	<b>Grade Level</b>	<b>Credits</b>
Speech	9-10-11-12	0.5
English 1	9	1.0
English 2	10	1.0
English 3	11	1.0
English 4	12	1.0
AP Lit/Comp	12	1.0

**LANGUAGE ARTS DEPARTMENT**

**Speech**

Prerequisite: None

Grade: 9, 10, 11, 12

Credit: ½

Speech is a one-semester course designed to help the student overcome inhibitions in public speaking situations and to achieve a style that is correct and effective. In speech preparation, there is an emphasis on research and outlining skills. Focus will be on delivery of the various types of speeches for class presentation as well as uses for public speaking throughout one's life.

**English 1**

Prerequisite: None

Grade: 9

Credit: 1

English 1 covers literature, writing, vocabulary, and grammar. Students will read several short stories, plays, poems, and at least one novel. Literary terms are taught to help students apply critical thinking skills to understand and comprehend a variety of literature covered in the class. The course also includes persuasive, narrative, technical, and expository writing assignments and uses the six-trait analytical rating guide. Students will complete a unit researching and writing about careers using the MLA format.

## **English 2**

Prerequisite: None

Grade: 10

Credit: 1

English 2 consists of a review of the basic elements of grammar and their application to the writing of paragraphs, compositions, and research. An expository research paper in MLA format and a literature-based persuasive essay will be assigned. The course also consists of general literature study. In-depth study of authors and various book reviews are also included.

## **English 3**

Prerequisite: None

Grade: 11

Credit: 1

English 3 is a study of American literature and the English language with an emphasis on the writing process and critical thinking skills. Novel and short story units are taught familiarizing students with the elements of literature, emphasizing symbolism, theme, irony, and plot development. The complex structure of persuasion is studied with special emphasis on close analysis, use of supporting materials, and logical organization culminating in the writing of a persuasive essay. Weekly vocabulary is assigned to enhance comprehension, writing, and verbal skills.

## **English 4**

Prerequisite: None

Grade: 12

Credit: 1

This course emphasizes reading and writing skills using a variety of texts from British literature. Classic pieces of British literature such as *Beowulf*, *The Canterbury Tales*, and *Macbeth* along with nonfiction (*Night*) and fiction (*A Christmas Carol*) novels and drama (*Pygmalion*) will be taught. Expository, narrative, technical, and persuasive writing assignments will be completed in conjunction with the literature units. A formal research project and paper using MLA format is required. Time is spent developing and increasing vocabulary and grammar proficiency skills of each student.

## **AP Lit/Comp.**

Prerequisite: English 3

Grade: 12

Credit: 1

This course is aimed towards students who excel and have an interest in the language arts and plan to attend a university after graduation. The course uses a study of British literature focusing on important, classical authors and selections to interpret and analyze poetry, drama, short stories, and novels. Historical perspective of European and world history will be developed in this survey course. Literary analysis in both class discussion and formal written essays will be completed. A formal research project and paper using MLA format is required. The curriculum outlined for this course is intended to prepare the student for the Advanced Placement English Exam. (Student is responsible for all testing fees)

## **MATH DEPARTMENT**

<b>Course Title</b>	<b>Grade Level</b>	<b>Credit</b>
Transition Math	9-10	1.0
Algebra 1	9-10	1.0
Geometry	9-10-11	1.0
Honors Geometry	9-10-11-12	1.0
Intermediate Algebra 2	11	1.0
Algebra 2	10-11-12	1.0
Honors Algebra 2	10-11	1.0
AP Statistics	10-12	1.0
Mathematical Thinking	11-12	1.0
Pre-Calculus	11-12	1.0
AP Calculus	12	1.0

## **MATH DEPARTMENT**

### **Transition Math**

Prerequisite: Placement only

Grade: 9, 10

Credit: 1

This course is designed for students who are not proficient in the required skills to successfully complete Algebra 1. Students who are not performing at the identified level on norm referenced tests, the state mathematics assessment, and their previous course work will be placed in this course. The course will focus on strategies that enhance student's ability to find success within high school mathematics.

### **Algebra 1**

Prerequisite: None

Grade: 9, 10

Credit: 1

This course is the introductory class for basic algebraic concepts. The student will master computation of polynomials, problem solving, and solution of linear and quadratic equation. Successful completion of Algebra 1 should enable students to enroll in upper level mathematics classes.

### **Geometry**

Prerequisite: Algebra 1

Grade: 9, 10, 11

Credit: 1

Geometry is a course that uses Algebra to solve problems that investigate the relationships between lines, planes, angles, polygons, and simple solid figures. Problems involving areas and volumes of plane and solid figures, right triangle relationships, including trigonometry are also solved. A calculator is recommended first semester and needed second semester.

### **Honors Geometry**

Prerequisite: Algebra 1 and Teacher approval

Grade: 9, 10,11,12

Credit: 1

This course will cover the same topics as the Geometry course but in greater depth. Students should carefully consider the extra time needed for this more challenging course. This course is designed for students who possess a high interest in mathematics and who plan to enroll in advanced/honors math courses during subsequent high school years.

### **Intermediate Algebra 2**

Prerequisite: Geometry

Grade: 11

Credit: 1

First semester of the course will focus on student mastery of most Number Sense, Algebra, and Function standards. The second semester of the course will focus on student mastery of the Vector and Matrix standards. Systems of equations and inequalities will be addressed throughout the course, with a concentration in the 2<sup>nd</sup> semester. In addition, we'll work to improve students' ability to take (use) notes in a math class. As a result, students should leave the course with notes that should provide support throughout Algebra 2 and College Algebra.

### **Algebra 2**

Prerequisite: Geometry

Grade: 10, 11, 12

Credit: 1

Algebra 2 is a course which thoroughly reviews and extends the basic concepts of Algebra 1. The course stresses problem solving strategies, graphing, matrices, polynomials of a higher degree, functions, conic relations, and transformation.

### **Honors Algebra 2**

Prerequisite: Geometry and Teacher approval

Grade: 10, 11

Credit: 1

This course will cover the same topics as the Algebra 2 course but in greater depth. Students should carefully consider the extra time needed for this more challenging course. This course is designed for students who possess a high interest in mathematics and who plan to enroll in advanced/honors math courses during subsequent high school years.

### **AP Statistics**

Prerequisite: Completion or concurrent enrollment in Algebra 2.

Grade: 10, 11, 12                      Credit: 1

This course will cover Data Analysis, Sampling and Experimentation, Anticipating patterns, and Statistical Inference. Students will be expected to have read and taken notes over material before it is covered in class. Daily activities will provide students with frequent opportunities to communicate their ideas with one another. Students will also produce more formal pieces of work in Special Problems. The curriculum outlined for this course is intended to prepare the student for the advanced Placement Statistics AP Exam. (Student is responsible for all testing fees)

### **Mathematical Thinking**

Prerequisite: Geometry

Grade: 11, 12                      Credit: 1

This course is designed to cover topics not typically covered in a standard Algebra 1 or Geometry class. Topics to be covered may include: set theory, logic, probability, voting theory, and financial algebra.

### **Pre-Calculus**

Prerequisite: Algebra 2

Grade: 11, 12                      Credit: 1

Pre-Calculus uses mathematical models to solve problems through the study of functions and their graphs. Polynomial functions, exponential, logarithmic, rational, and trigonometric functions are covered. Methods for solving these types of equations are developed so that applications to real situations can be solved. Arithmetic and geometric series are included.

### **AP Calculus**

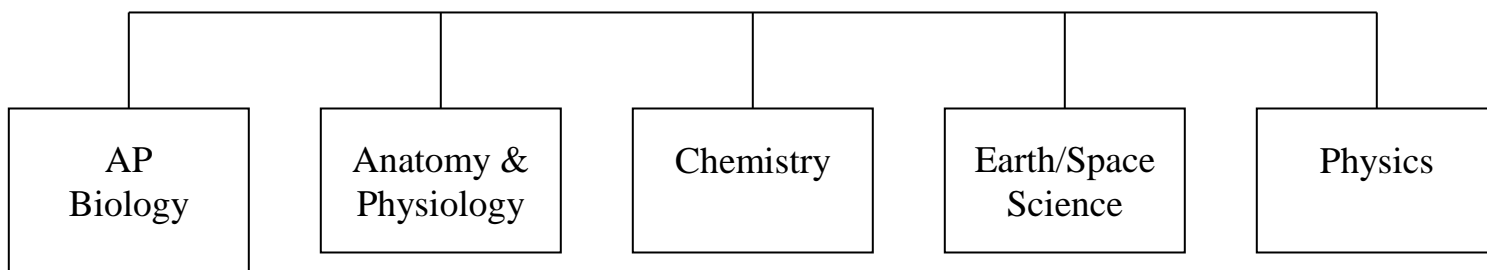
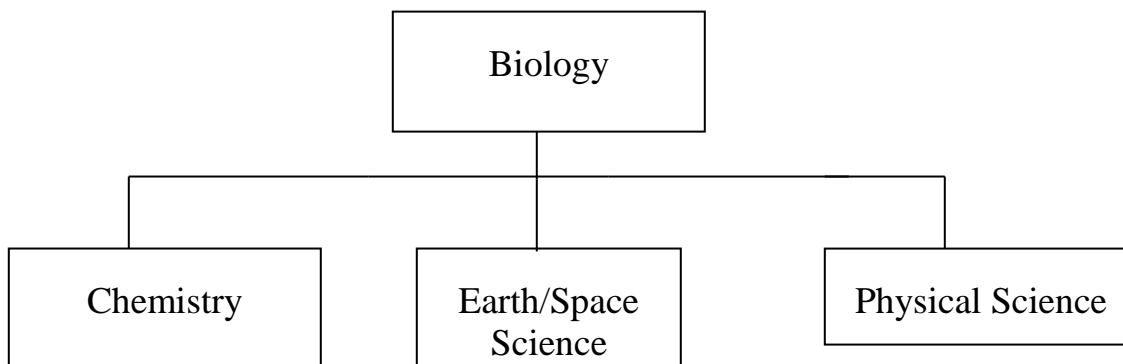
Prerequisite: Pre-Calculus

Grade: 12                      Credit: 1

Calculus is intended for students who have a thorough knowledge of college preparatory mathematics. The study of calculus involves three stages: the limit process, differentiation, and integration. The curriculum outlined for this course is intended to prepare the student for the advanced Placement Calculus AP Exam. (Student is responsible for all testing fees)

## SCIENCE DEPARTMENT OFFERINGS

Course Title	Grade Level	Credits
Biology	9	1.0
Physical Science	10-11-12	1.0
Earth/Space Science	10-11-12	1.0
Chemistry	10-11-12	1.0
AP Advanced Biology (HS)	11-12	1.0
Anatomy and Physiology (HS)	11-12	1.0
Physics	11-12	1.0



## SCIENCE DEPARTMENT

### **Biology**

Prerequisite: None

Grade: 9

Credit: 1

Biology is a way of explaining by scientific processes what living organisms do and how they do it. Students in this course study the six unifying themes of biology: evolution, homeostasis, continuity, development, ecology and energy, matter and organization. Laboratory exercises are used to facilitate understanding and learning. After this course, a student will be able to make connections between biological concepts and daily life.

### **Physical Science**

Prerequisite: None

Grade: 10, 11, 12

Credit: 1

This course provides students with an introduction to the concepts of chemistry, physics, and earth/space science. Students develop necessary scientific skills and a foundational knowledge base to continue further studies in science. (This course **does** count for MHS graduation science credit, but **does not** count for Qualified Admissions.)

### **Earth/Space Science**

Prerequisite: None

Grade: 10, 11, 12

Credit: 1

This course focuses on the Earth and its place in the universe. Astronomy focuses on our solar system, stars, other space objects and processes. Earth science will focus on geology, which is the study of the Earth and processes that change the Earth, and meteorology. This is the study of our atmosphere, weather and their changes.

### **Chemistry**

Prerequisite: Concurrent enrollment or completion of Algebra 2 and/or Mathematical Thinking; or teacher recommendation

Grade: 10, 11, 12

Credit: 1

Fundamental principles and concepts of inorganic chemistry are studied including atomic theory and structure, chemical equations and their quantitative applications, solutions and their preparations, the study of the gas laws, and basic organic chemistry concepts. Lab work includes both qualitative and quantitative analysis. A laboratory notebook is required.

**AP Biology** (Health Science Pathway Course)

Prerequisite: Biology

Grade: 11, 12

Credit: 1

AP Biology is a high school course designed to be the equivalent of a college introductory course usually taken by biology majors during their first year at colleges and universities across the nations. A college biology course differs significantly from the usual high school course in respect to the textbook used, the range and depth of topics covered, the laboratory work done by students and the time and effort required. Primary emphasis will be on developing an understanding of concepts rather than on memorizing terms and technical details. The aim is to provide students with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the rapidly changing science of biology. Although much of the content will be presented during class time, students are expected and required to cover additional materials on their own. Students will only succeed if they appreciate that this course will be taught at the college level and will find it very challenging. It is recommended by The College Board that students be prepared to spend a minimum of 1 ½ hours of study per 1 hour of time spent in class. Students who do not wish to invest this type of effort or amount of time should NOT be enrolled in AP Biology. The course is designed to prepare students for the AP Biology examination given each spring by The College Board. Students score will determine if college credit is awarded. Students may earn up to 8 hours of college credit in this course.

**Anatomy and Physiology** (Health Science Pathway Course)

Prerequisite: Biology

Grade: 11, 12

Credit: 1

Students study the structure and function of the following systems of the body: integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive. Anatomy and Physiology is designed to introduce students pursuing careers in the health fields to the structure and function of the human body. To observe the three-dimensional relationships between structures more clearly, hands-on dissection is required. This class is geared for the academically able, science-oriented student; a considerable amount of time should be devoted to study for tests.

**Physics**

Prerequisite: Algebra 2

Grade: 11, 12

Credit: 1

Physics is the study of the physical world. The course goal is to use basic concepts, equations and assumptions to describe the physical world and make predictions regarding different phenomena. Studies will focus on mechanics, sound, light, and wave phenomena. Mathematics is used throughout the course and homework study is essential to successful understanding. Laboratory work is used to help understand the basic physics concepts.

## SOCIAL SCIENCE DEPARTMENT

<b>Course Title</b>	<b>Grade Level</b>	<b>Credit</b>
World Studies	10	1.0
Psychology	10-11-12	0.5
Advanced Psychology	11-12	0.5
American Studies	11	1.0
AP American Studies	11	1.0
United States Civics	12	0.5
<u>United States History Topics</u>	12	0.5

### SOCIAL SCIENCE

#### **World Studies**

Prerequisite: None

Grade: 10

Credit: 1

This course is an examination of the period in time from the emergence of the Renaissance to the present. It will cover political, social, and economic development in Europe, Asia, the Americas, Africa, and the transition to modern times. Current events will also be included.

#### **Psychology**

Prerequisite: None

Grade: 10, 11, 12

Credit: ½

This course is an introductory offering in psychology designed to give students a general understanding of psychology and the terminology used in psychology. There is special emphasis placed on mental illness, personality development, and techniques of getting along in today's complex society.

#### **Advanced Psychology**

Prerequisite: Psychology

Grade: 11, 12

Credit: ½

This course designed for students who are looking at majoring in psychology or perhaps looking at a career associated in psychology. The course is designed to introduce and expound on information learned in the intro to psych class about the systematic and scientific study of behavioral and mental processes. Students are exposed to psychological facts, principles, and phenomena associated with the major sub fields within psychology. Students will also learn about the methods psychologists use in their science and practice. Student research and presentations will be a major component of the class.

### **American Studies**

Prerequisite: None

Grade: 11

Credit: 1

This course is a survey of the United States during the 20<sup>th</sup> Century until the 1950's. It will cover the economic, geographical, political, and social development of the period. Special emphasis will be placed on America's great people and major wars involving the United States.

### **AP American Studies**

Prerequisite: None

Grade: 11

Credit: 1

This is a more intensive approach to the standard U.S. History course which emphasizes the history of the United States from Reconstruction to the present. Students will explore the culture, economics, geography, governmental ideology, history, and individuals, groups and interactions of each major period. The curriculum outlined for this course is intended to prepare the student for the Advanced Placement History Exam. (Student is responsible for all testing fees)

### **United States Civics**

Prerequisite: None

Grade: 12

Credit: ½

This is a required survey course for seniors. It will cover rights and responsibilities of citizenship in the United States, plus the development and every day tasks of the Federal, State, and Local governments.

### **United States History Topics**

Prerequisite: None

Grade: 12

Credit: ½

This course will cover the political, economic, and social history of the United States from 1950 to the present. Topics include leaders, major wars, social development, and major events that helped shape the United States during this time period.

## PHYSICAL EDUCATION DEPARTMENT

<b>Course Title</b>	<b>Grade Level</b>	<b>Credit</b>
Health	9	0.5
Coed Physical Education 9	9	0.5
Coed Activities	10, 11, 12	0.5
Strength & Conditioning, Male	9, 10, 11, 12	0.5
Strength & Conditioning, Female	9, 10, 11, 12	0.5
<u>General Weights</u>	9, 10, 11, 12	0.5

## PHYSICAL EDUCATION DEPARTMENT

### **Health**

Prerequisite: None

Grade: 9

Credit: ½

This course is required for graduation. All freshmen must enroll. The class studies the physical and mental characteristics of individual well-being. Included in the curriculum are the studies of the systems of the body, mental health, nutrition, human development, and current health problems.

### **Coed Physical Education**

Prerequisite: None

Grade: 9

Credit: ½

This is a course that will fulfill the physical education requirement for graduation. It will focus on lifetime sports. Grades are based on class participation and skill improvement. The curriculum will include team and individual sports such as basketball, volleyball, flag football, track softball, handball, and recreational sports. Personal fitness will be a major emphasis reflected in grading of all units.

### **Coed Activities** (may be repeated for credit)

Prerequisite: None

Grade: 10, 11, 12

Credit: ½

This course will include units on individual and team sports including basketball, bowling, badminton, fitness, softball, volleyball, track, flag football, pickleball, and recreational sports. This course may be repeated for credit.

**Strength & Conditioning, Male** (may be repeated for credit)

Prerequisite: Teacher/Coach approval

Grade: 9, 10, 11, 12                      Credit: ½

This is a course that will fulfill the physical education requirement for graduation. This course will only be offered to boys who will be participating in Mulvane High School athletics, and teacher approval will be required for enrollment. This class is for individuals who want to learn how to lift, increase strength, add weight, and be in good physical condition. Basic techniques and terminology will be covered. Students will be expected to participate diligently. Repeating students should be skilled in weight lifting techniques and want to improve physical performance. Weightlifting and speed training will be emphasized.

**Strength & Conditioning, Female** (may be repeated for credit)

Prerequisite: Teacher/Coach approval

Grade: 9, 10, 11, 12                      Credit: ½

This is a course that will fulfill the physical education requirement for graduation. This course will only be offered to girls who will be participating in Mulvane High School athletics, and teacher approval will be required for enrollment. This class is for individuals who want to learn how to lift, increase strength, add weight, and be in good physical condition. Basic techniques and terminology will be covered. Students will be expected to participate diligently. Repeating students should be skilled in weight lifting techniques and want to improve physical performance. Weightlifting and speed training will be emphasized.

**General Weights** (may be repeated for credit)

Prerequisite: None

Grade: 9, 10, 11, 12                      Credit: ½

This is a course that will fulfill the physical education requirements for graduation. It is a class for individuals who want to learn how to lift, increase strength, add weight, and be in good physical condition. Basic techniques and terminology will be covered. Students will be expected to participate diligently. Repeating students should be skilled in weight lifting techniques and want to improve physical performance. Weightlifting and speed training will be emphasized.

## Career and Technical Education Department

<u>Course Title</u>	<u>Grade Level</u>	<u>Credit</u>
<b>Business Technology</b>		
<b><u>Business Entrepreneurship and Management Pathway (BEM)</u></b>		
Business Essentials (BEM) (FMEM) (AV)	9-10-11-12	0.5
Business Economics (BEM)	10-11-12	0.5
Business Management (BEM)	9-10-11-12	0.5
Entrepreneurship (BEM)	10-11-12	0.5
Computer Concepts I	10-11-12	0.5
Web Page Design (BEM)	10-11-12	1.0
Accounting I (BEM)	10-11-12	1.0
Applied Business Development (BEM)	11-12	1.0
<b>Family and Consumer Sciences</b>		
<b><u>Family and Community Services Pathway (FCS)</u></b>		
Career and Life Planning (FCS)(VA)	9-10-11-12	0.5
Nutrition and Wellness (FCS)	9-10-11-12	0.5
Consumer Education (FCS)	10-11-12	0.5
Family Studies (FCS)	10-11-12	0.5
Human Growth and Development (FCS)	11-12	0.5
Career and Community Connections (FCS)(VA)	11-12	0.5
<b>Industrial Technology</b>		
<b><u>Design &amp; Pre-Construction Pathway (PC)</u></b>		
Drafting CAD 1 (PC) (P)	9-10-11-12	0.5
Drafting CAD 2 (PC) (P)	9-10-11-12	0.5
Architecture Design 1 (PC)	9-10-11-12	0.5
Architecture Design 2 (PC)	10-11-12	0.5
Advanced Studies in Architecture Des. (PC)	11-12	0.5

**Construction Pathway(C)**

Cabinetmaking and Furniture Design 1(PC)(C)	9-10-11-12	1.0
Cabinetmaking and Furniture Design 2(C)	10-11-12	1.0
Residential Carpentry 1 (PC)(C)	11-12	1.0
Residential Carpentry 2 (C)	12	1.0
Electrical & Security Systems (C)	10-11-12	0.5
HVAC & Plumbing Systems (C)	10-11-12	0.5

**Production Pathway (P)**

Production Welding Processes 1 (P)	9-10-11-12	1.0
Production Welding Processes 2 (P)	10-11-12	1.0
Mass Production 1 (P)	10-11-12	1.0
Mass Production 2 (P)	11-12	1.0

**Arts A/V and Communications****Visual Arts Pathway (VA)**

Photo Imaging (VA)	9-10-11-12	0.5
Essentials of Interior & Textile Design (VA)	9-10-11-12	0.5
Interior & Textile Merchandising (VA)	9-10-11-12	0.5

**Journalism****AV Communications Pathway (AV)**

21 <sup>st</sup> Century Journalism (AV)	9-10-11-12	0.5
Audio/Video Production Fundamentals (AV)	9-10-11-12	0.5
Video Production (AV) - (KCAT)	10-11-12	1.0
Digital Media Design Production (AV) - (CAT Tracks/Yearbook)	10-11-12	1.0
Project Management & Resource Scheduling (AV)	11-12	1.0

**Health Science****Health Science Pathway (HS)**

Health Science I (HS)	10-11	1.0
Health Science III (HS)	12	1.0

**BUSINESS TECHNOLOGY DEPARTMENT**  
***Business Entrepreneurship and Management Pathway (BEM)***

**Business Essentials**

Prerequisite: None

**Pathway:** (BEM) (FMEM) (AV)

Grade: 9, 10, 11, 12                      Credit: ½

This is a course designed to give students an overview of the business, marketing and finance career occupations. Students will develop an understanding of how academic skills in mathematics, economics, and written and oral communications are integral components of success in these occupations. Students will examine current events to determine their impact on business and industry and legal and ethical behavior, acquire knowledge of safe and secure environmental controls to enhance productivity, determine how resources should be managed to achieve company goals and identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of business ownership, they will interpret industry laws and regulations to ensure compliance, identify principles of business management, and analyze business practices to determine ethics and social responsibilities.

**Business Economics**

Prerequisite: Business Essentials

**Pathway:** (BEM)

Grade: 10, 11, 12                      Credit: ½

This course integrates economic principles (such as free market economy, consumerism and the role of American government within the economic system) with entrepreneurship/business concepts (such as marketing principles, business law and risk).

**Business Management**

Prerequisite: Business Essentials

**Pathway:** (BEM)

Grade: 9, 10, 11, 12                      Credit: ½

This course acquaints students with management opportunities and effective human relations. The course will provide students with the skills to perform planning, staffing, financing and controlling functions within a business. In addition, it will provide a macro-level study of the business world, including business structure and finance, and the interconnections among industry, government and the global economy. The course will also have an emphasis on problem-based, real world applications of business concepts and use accounting concepts to formulate, analyze and evaluate business decisions.

**Entrepreneurship**

Prerequisite: Business Essentials

**Pathway:** (BEM)

Grade: 10, 11, 12                      Credit: ½

This course acquaints students with the knowledge and skills necessary to own and operate their own business. The course will include content from the following areas: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting and communications.

### **Computer Concepts I**

Prerequisite: Business Essentials

**Pathway:** No pathway

Grade; 9, 10, 11, 12                      Credit: ½

Computer Concepts I is business class designed to follow basic computer skills demonstrated in Business Essentials. Document formatting will include letters with special features, memorandums, tables, agendas, forms, reports, and other business documents. Basic spreadsheet applications and Power Point will be introduced.

### **Web Page Design**

Prerequisite: None

**Pathway:** (BEM)

Grade; 11, 12                                      Credit: 1

This course is designed to introduce students to appropriate uses of the internet for research, marketing, entertainment, productivity for both personal and professional use, and developing skills necessary for success in today's job market. The emphasis will be to educate students on the topics of designing a web page.

### **Accounting I**

Prerequisite: None

**Pathway:** (BEM)

Grade: 10, 11, 12                                      Credit: 1

Basic math skills are important to succeed in this course. Fundamental principles such as recording of business transactions and preparing of financial statements are stressed. The course provides vocational training for students as bookkeepers. It is also recommended for those who plan to attend college.

### **Applied Business Development**

Prerequisite: Business Essentials & 1 credit of additional Business courses

**Pathway:** (BEM)

Grade: 11, 12                                      Credit: 1

This course is designed to simulate a business environment so that students will experience the skills, knowledge, and attitudes that accompany working in a business setting. The vocational coordinator/instructor will serve as the employer and the student will serve as the employee. This course is conducted on the school premises, in the business lab, during regular school hours. Application of the skills learned in other business courses will be the basis for which the student will work. Students are encouraged to keep a portfolio of their work.

**FACS DEPARTMENT**  
*Family and Community Services Pathway (FCS)*  
*Visual Arts Pathway (VA)*

**Career & Life Planning**

Prerequisite: None

**Pathway:** (FCS) (VA)

Grade: 9, 10, 11, 12                      Credit: ½

This course prepares the student to meet the challenges of daily life. The student will learn about budgeting, job seeking, money management, relationships and all aspects of wellness. A career portfolio will be completed by each student. This is a great class for both males and females wanting to establish themselves before marriage.

**Nutrition & Wellness**

Prerequisite: None

**Pathway:** (FCS)

Grade: 9, 10, 11, 12                      Credit: ½

This course will include a study of the fundamentals of nutrition, food preparation and safety, the effects of diet on health and wellness, and career opportunities in related fields. The labs will focus on fruits/vegetables, eggs, microwave cookery, pies, and quick breads. Individual nutrition analysis will be introduced.

**Essentials of Interior & Textile Design**

Prerequisite: None

**Pathway:** (VA)

Grade: 9, 10, 11, 12                      Credit: ½

This course introduces students to and expands upon various aspects of industry, conveying the commercial application of principles and elements of design, production processes, and maintenance techniques to meet the design needs of humans. This course will also provide a discussion and exploration of career opportunities in interior, textiles and set/exhibit design.

**Interior & Textile Merchandising**

Prerequisite: Essentials of Interior & Textile Design

**Pathway:** (VA)

Grade: 9, 10, 11, 12                      Credit: ½

This course centers upon the merchandising of interior and textile products in a variety of settings. Topics include exploring cycles, trends and style as well as the techniques in coordination, promotion display and sales of interior and textile items. Basic management and entrepreneurship will be introduced as will the relationship of the skills to set and exhibit design.

### **Consumer and Personal Finance**

Prerequisite: None

**Pathway:** (FCS)

Grade: 10, 11, 12                      Credit: ½

This course is designed to help students plan financial goals, understand the requirements for reaching a satisfactory standard of living and establish financial stability. Lessons include: setting goals and making decisions, preparing a budget, understanding banking services (check writing, savings and investing), using credit wisely, buying insurance, purchasing a car, making wise consumer decisions, living on ones' own, and planning retirement.

### **Family Studies**

Prerequisite: None

**Pathway:** (FCS)

Grade: 10, 11, 12                      Credit: ½ credit

This course is a study of personal and family relationships with emphasis on the factors involved in balancing work and family. Some areas included are: needs the family provides, relationships, changing male and female roles, readiness for marriage, importance of communication, adjustments in marriage, and divorce.

### **Human Growth & Development**

Prerequisite: None

**Pathway:** (FCS)

Grade: 11, 12                      Credit: ½

A study of development from prenatal to the senior years. The physical, emotional, and intellectual development of children from birth to adulthood will be compared. Additional topics studied include: childcare, day care center, babysitting, child abuse, parent readiness, adoption, foster care, working mothers, at-risk children and healthy vs. unhealthy relationships. Time will be spent in observing small children and noting their physical, emotional, and intellectual development during an actual preschool experience.

### **Career & Community Connections**

Prerequisite: 1 credit of any FCS coursework

**Pathway:** (FCS) (VA)

Grade: 11, 12                      Credit: 1

This course is the application course in the FCS field. Participants will review coursework from previous classes including: character development, volunteerism, roles of a good citizen and balancing work, family and volunteer work. Focus will be on job placement in the human services field and students will practice applying and interviewing for jobs. The course will also help students understand the involvement of agencies such as Social and Rehabilitation Services.

## INDUSTRIAL TECHNOLOGY DEPARTMENT

*Design & Pre-Construction Pathway (PC)*

*Construction Pathway (C)*

*Production Pathway (P)*

### **Drafting CAD 1**

Prerequisite: None

**Pathway:** (PC) (C)

Grade: 9, 10, 11, 12

Credit: ½

A comprehensive course designed to instruct students in the use of CAD design software. Students will: identify and demonstrate the use of CAD commands and system peripherals, demonstrate the ability to dimension draw on the CAD system, demonstrate proficiency in setting limits and scale on the CAD system, demonstrate proficiency in setting, turning on and turning off layers, create standard drawings for templates, demonstrate the ability to create drawings in 3D, demonstrate the ability to load, store files and transport files via internet, place text on a drawing and be able to change to different font styles, sizes and angles and be proficient in the use of printer/plotter operations.

### **Drafting CAD 2**

Prerequisite: Drafting CAD 1

**Pathway:** (PC) (C)

Grade: 9, 10, 11, 12

Credit: ½

This course is a continuation of the CAD 1 course. Students will: construct drawings using straight line, circle and hidden line statements, construct isometric 3D drawings, set grid and snap specifications, define and use commands to modify a drawing and use symbols in a drawing.

### **Architecture Design 1**

Prerequisite: Drafting CAD 1

**Pathway:** (PC)

Grade: 9, 10, 11, 12

Credit: ½

A comprehensive course designed to instruct students on the basic skills of architectural design with a particular emphasis on residential and light commercial applications. Students will: identify historical styles of architecture and types of structural design, design a functional structure suitable for a particular site, calculate/estimate building costs for a structure and develop brief specifications for the project, produce a floor plan with all walls, doors, windows and stairs properly identified, draw plumbing and electrical layers, draw a foundation plan for a single family dwelling, draw elevations and pictorial presentations, develop a plot plan with house, out buildings, trees, utility supply lines and communications supply lines.

## **Architecture Design 2**

Prerequisite: Architecture Design 1

**Pathway:** (PC)

Grade: 10, 11, 12                      Credit: ½

This course is a continuation of the Architecture Design 1 course. Students will: demonstrate the ability to 3D model a structure using different mediums in design, draw a roof framing plan for a single family dwelling, draw interior elevations with fixtures, built-ins, trims, utilities and openings, construct an interior finish schedule, create and interior one-point perspective drawing and create an exterior two-point perspective drawing.

## **Advanced Studies in Architectural Design**

Prerequisite: Architecture Design 2

**Pathway:** (PC)

Grade: 11, 12                      Credit: ½

This is an advance application course covering specific research-based topics in architectural design. Students will: employ basic methods of data collection and analysis to provide information for projects, research and report on method for employing “Green Building” techniques, research and report on the latest technology used in HVAC system electrical systems and plumbing systems, apply suitable practices of environmental impact to enhance project acceptance and quality, integrate structural, environmental, safety, building envelopes and building service systems to design and construct buildings and structures, develop a landscape design for a commercial building and develop technical drawings by hand and computer-generated plans to design a structure.

## **Cabinetmaking and Furniture Design 1**

Prerequisite: None

**Pathway:** (PC) (C)

Grade: 9, 10, 11, 12                      Credit: 1

A comprehensive course designed to instruct students in the basic knowledge and skills required for cabinetmaking and furniture design. Students will: utilize hand tools for cutting, scraping or planning the stock for a project, apply math skills to control distance, spacing &/or angle measurements and placements for constructing a project, utilize power tools and machines to construct a project, perform steps to interpret, transfer and layout lines, construct a project incorporating the elements & principles of design as related to traditional styles in history, select and perform “best-method” for joining and assembling project parts and apply a quality finish on a project utilizing appropriate materials and equipment.

## **Cabinetmaking and Furniture Design 2**

Prerequisite: Cabinetmaking and Furniture Design 1

**Pathway:** (C)

Grade: 10, 11, 12                      Credit: 1

An advanced level application course designed to provide students with experience in constructing cabinets, counters, furniture and interior woodwork. Students will: properly use maintain and care for hand tools and machines, apply traditional history with the principles and elements of design to create project plans, select quality wood, create a bill of material, estimate the cost of a project, select, apply and perform “best-method” joint construction and fitting as well as assembly for a project.

### **Residential Carpentry 1**

Prerequisite: Cabinetmaking and Furniture Design 1 and Teacher approval

**Pathway:** (PC) (C)

Grade: 11, 12                      Credit: 1

A comprehensive course designed to instruct students in the basic knowledge and skills required for construction of residential structures. Students will: demonstrate blueprint reading skills, estimate building materials and costs for a project, set up and utilize leveling instruments, install sill seal and sill plate to the foundation, lay out, construct and erect walls and partitions, lay out, cut and install ceiling joists, construct a frame roof and apply sheathing, install pre-hung windows, exterior doors and an entry door, apply fiberglass shingles and install cabinets, countertops and a backsplash. Students will complete a project off campus. Signed consent from parents is required to enroll in this course.

### **Residential Carpentry 2**

Prerequisite: Residential Carpentry 1 and Teacher approval

**Pathway:** (C)

Grade: 12                              Credit: 1

An advance comprehensive course designed to instruct student in the skills pertaining to rough construction and finish work. Students will: erect, plumb and brace concrete forms, install footings and foundations, install thermal and sound insulation, lay and construct a floor assembly, walls, and partitions, install drywall panels, construct a frame roof, construct a staircase, install doors, windows, base and ceiling trim. Students will complete a project off campus. Signed consent from parents is required to enroll in this course.

### **Electrical & Security Systems**

Prerequisite: None

**Pathway:** (C)

Grade: 10, 11, 12                      Credit: ½

A comprehensive course designed to instruct students in the basic skills required for installation of electrical and security systems. Students will: cut, ream, thread and bend conduit, compute branch circuit loads, demonstrate the procedure for safely using a clamp-on ammeter and a voltage tester, install raceways and boxes, correctly pull wire through conduit, install service entrance equipment, ground electrical circuits, install breakers, plugs and switches, install lighting fixtures, describe various fire and security systems, demonstrate knowledge on installing closed circuit TV and troubleshoot and repair problems in lighting fixtures, including ballast replacement.

### **HVAC & Plumbing Systems**

Prerequisite: None

**Pathway:** (C)

Grade: 10, 11, 12                      Credit: ½

A course designed to instruct students in the basic skills required to install HVAC and plumbing systems.

*\*\*Production Pathway courses include a 3-week mass production project by the whole class each semester. CAD/CAM computer lathe technology will be presented in all classes.*

### **Production Welding Processes 1**

Prerequisite: None

**Pathway:** (P)

Grade: 9,10, 11, 12                      Credit: 1

This is an introductory course for students, which covers many aspects of welding fabrication. Students will be exposed to oxyfuel, ARC, and MIG welding while learning the various techniques required to weld multiple joints. Students will also be introduced to a variety of cutting techniques using oxyfuel, plasma, and CNC plasma cutting equipment. Students will use a wide variety of metalworking machines, including but not limited to the lathe, mill, sheet metal breaks, and various hand tools.

### **Production Welding Processes 2**

Prerequisite: Production Welding Processes 1

**Pathway:** (P)

Grade: 10, 11, 12                      Credit: 1

This is an advanced course in welding fabrication. Students will be required to become proficient in oxyfuel, ARC, MIG, and TIG welding while learning the various techniques required to weld multiple positions. Students will also be required to become proficient in a variety of cutting techniques using oxyfuel, plasma, and CNC plasma cutting equipment. Students will use a wide variety of metalworking machines, including but not limited to the lathe, mill, sheet metal breaks, and various hand tools. Students will apply these skills when completing required projects of their choice.

### **Mass Production 1**

Prerequisite: Production Welding Processes 1

**Pathway:** (P)

Grade: 10, 11, 12                      Credit: 1

This is an introductory course for students, which covers many aspects of production technology. Students will integrate multiple mass production processes to design and build projects that will be sold to the community. Students will be required to utilize oxyfuel, ARC, and MIG welding while constructing their mass production project that is assigned to them. Students will also use a wide variety of metalworking machines, including but not limited to the lathe, mill, sheet metal breaks, and various hand tools to complete their project. Students will be required to work as a team in order to produce a quality product.

### **Mass Production 2**

Prerequisite: Mass Production 1

**Pathway:** (P)

Grade: 11, 12                      Credit: 1

This is an advanced course for students, which covers many aspects of production technology. Students will incorporate LEAN manufacturing concepts to design and build projects that will be sold to the community. Students will be required to utilize oxyfuel, ARC, and MIG welding while constructing their mass production project that is decided on by the class. Students will also use a wide variety of metalworking machines, including but not limited to the lathe, mill, sheet metal breaks, and various hand tools to complete their project. Students will be required to work as a team in order to produce a quality product.

**JOURNALISM DEPARTMENT**  
*AV Communications Pathway (AV)*  
*Visual Arts Pathway (VA)*

**21<sup>st</sup> Century Journalism**

Prerequisite: None

**Pathway:** (AV)

Grade: 9, 10, 11, 12                      Credit: ½

21st Century Journalism promotes the development of the skill set needed today and in the future. Topics include an exploration of the role media and the communications industry has in society, the development of the technical skills related to journalistic writing and interviewing, as well as understand the ethical and legal issues related to the field.

**Audio/Video Production Fundamentals**

Prerequisite: 21<sup>st</sup> Century Journalism

**Pathway:** (AV)

Grade: 9, 10, 11, 12                      Credit: ½

Audio Video Production Fundamentals provides a basic understanding of producing video for a variety of uses. Topics include analyzing the pre-production, production and post-production process, as well as explore the equipment and techniques used to develop a quality video production.

**Photo Imaging**

Prerequisite: 21<sup>st</sup> Century Journalism

**Pathway:** (VA)

Grade: 9, 10, 11, 12                      Credit: ½

Photo Imaging teaches the technical skills needed to produce quality images for use in a variety of applications. Topics include use of equipment, software and techniques to take, edit and manipulate digital images.

**Video Production (KCAT)**

Prerequisite: 21<sup>st</sup> Century Journalism

**Pathway:** (AV)

Grade: 10, 11, 12                      Credit: 1

Video Production applies the technical skills learned in Audio Video Production Fundamentals by allowing students to orchestrate projects from setting the objectives to the post-production evaluation. The subject of the presentation may be determined in a number of ways, but must address an authentic need. The complexity of the presentation is not the focus of the course, but the experience of the entire process in, to include planning the presentation, setting up the studio (if applies), acting as videographer and editor to make it fluid and seamless.

**Digital Media Design Production (CAT Tracks/Yearbook)**

Prerequisite: 21<sup>st</sup> Century Journalism

**Pathway:** (AV)

Grade: 10, 11, 12

Credit: 1

Digital Media Design and Production will provide students with the opportunity to apply the fundamental techniques learned in Digital Media Technology course through the production of a multi-media project for public presentation. Topics include developing a production schedule, working as a team, utilizing composition principles and embedding audio, video or other content in digital formats.

**Project Management & Resource Scheduling**

Prerequisite: Video Production **or** Digital Media Design Production

**Pathway:** (AV)

Grade: 11, 12

Credit: 1

Project Management and Resource Scheduling will provide an opportunity for students to assume a leadership role in a collaborative environment, by guiding their peers from the development of an idea to a finished product. Students will be responsible for assigning responsibilities, developing timelines, evaluating information for accuracy, appropriateness, relevance, and validity, as well as securing and scheduling resources.

**HEALTH SCIENCE DEPARTMENT**

***Health Science Pathway (HS)***

**Health Science I**

Prerequisite: None

**Pathway:** (HS)

Grade: 10, 11

Credit: 1

This course exposes students to the variety of opportunities available within the health care industry (such as nursing, therapy, dental care, administrative services and lab technology). This course provides experiences in the Health Science Education pathways along with information and knowledge related to the health care industry as a whole.

**Health Science III**

Prerequisite: Anatomy & Physiology **or** AP Biology

**Pathway:** (HS)

Grade: 12

Credit: 1

This course content will provide students with professional experience in the Health Science pathway. Goals are typically set cooperatively by the student, parents, teachers and employers. The course will include classroom activities involving research of the various careers in the health professions.

## FINE ARTS DEPARTMENT

<b>Course Title</b>	<b>Grade Level</b>	<b>Credits</b>
<b><i>ART</i></b>		
Introduction to Art	9	0.5
Design Production	10-11-12	0.5
Draw and Paint	9-10-11-12	0.5
Ceramics and Sculpture	10-11-12	0.5
Advanced Art	11-12	1.0
<b><i>MUSIC</i></b>		
<b><u>Vocal</u></b>		
Mixed Chorus	9-10-11-12	1.0
Women's Choir	10-11-12	1.0
Esprit De Corps	10-11-12	1.0
<b><u>Instrumental</u></b>		
Varsity Band	9-10-11-12	1.0
Jazz Band	9-10-11-12	1.0
String Ensemble	9-10-11-12	1.0
Music History	9-10-11-12	0.5
<b><i>THEATRE</i></b>		
Introduction to Theatre	9-10-11-12	0.5
Advanced Theatre	10-11-12	1.0
Theatre History and Appreciation	9-10-11-12	0.5
Forensics	9-10-11-12	0.5
Debate	9-10-11-12	0.5

## FINE ARTS

Most Courses in Fine Arts may be repeated for Credit Each Year

### ART DEPARTMENT

#### **Introduction to Art** (may not be repeated)

Prerequisite: None

Grade: 9, 10, 11, 12                      Credit: ½

The students will be exposed to different mediums in two and three-dimensional art. Various techniques will be taught, demonstrations given, art history incorporated and basic art terms utilized to help develop the students' interest, talent, and knowledge base.

#### **Design Production** (may not be repeated)

Prerequisite: Introduction to Art

Grade: 10, 11, 12                      Credit: ½

This class is designed for highly interested art students. The course will include projects involving layout, design, lettering, construction, and advertising. Students will focus on problem solving, processes and creative thinking. Class may also be responsible for coordinating with other departments to help design and construct props for the school play.

#### **Drawing and Painting** (semester two; may be repeated for credit)

Prerequisite: Introduction to Art

Grade: 9,10, 11, 12                      Credit: ½

Students will begin with drawing for the first nine weeks. Perspective, still life, landscape, caricature, and portraits will be covered. Various assignments will be done utilizing several mediums. Second nine weeks students will begin painting. Still life, landscape, portraits, and other multi-color paintings will be covered. Painting assignments will involve the use of watercolors, tempera, and acrylics. If a student wished to do any other type of painting, he/she must supply his or her own materials.

#### **Sculpture and Ceramics** (semester one; may be repeated for credit)

Prerequisite: Introduction to Art

Grade: 10, 11, 12                      Credit: ½

This class is designed for the 3-D minded, hands-on student. The class covers the aspects of sculpture techniques and will utilize many materials such as paper, wood, plaster, paint and wire in creating both realistic and abstract projects. During the semester, the class will also focus on ceramics and how to create works using hand building techniques, wheel throwing, glazing and firing of ceramic clay.

**Advanced Art** (may be repeated for credit)

Prerequisite: Introduction to Art, Drawing & Painting and Sculpture & Ceramics and submission of application (applications are available with Art instructor).

*class size is limited to a maximum of 15 students*

Grade: 11, 12

Credit: 1

This class is designed for those highly skilled students who have a strong interest in pursuing art on a more challenging level. Students are required to be self-motivated, to work independently on self-chosen subject matter and mediums. Quality is a must! Works produced will be submitted in art shows and competitions. The class is not designed for the average skilled student.

## **MUSIC DEPARTMENT**

### **VOCAL MUSIC**

**Mixed Chorus** (may be repeated for credit)

Prerequisite: None

Grade: 9, 10, 11, 12

Credit: 1

This course is open to all students at the High School. This choir will perform at all major school concerts and at music festival. Sacred and secular music will be studied and performed. The development of proper breathing and mature voice technique will be stressed in this class. Some choreography will be incorporated on songs. KSHSAA eligibility is required for competition.

**Women's Choir** (may be repeated for credit)

Prerequisite: Enrollment by audition and teacher approval

Grade: 10, 11, 12

Credit: 1

The choir will perform at all major school concerts. This choir will compete at regional and state music festivals. Sacred and secular music will be studied and sung during the year. The development of proper breathing and mature voice skills will be stressed in this class. Some choreography will be incorporated on songs. Standing in this class will be re-evaluated at semester for all enrolled. If standing is unsatisfactory, the student will be replaced. KSHSAA eligibility is required for competition.

**Esprit De Corps** (may be repeated for credit)

Prerequisite: Enrollment by audition and teacher approval

Grade: 10, 11, 12

Credit: 1

Eighteen mixed ensemble members are chosen by audition. Show tunes, madrigals, jazz and popular literature will be studied and performed. Performances include regular concerts and music festivals, plus outside performances. Choreography will be incorporated on most songs. KSHSAA and MHS eligibility is required throughout the year; this is a year-long commitment. This course does have financial commitments.

## **INSTRUMENTAL MUSIC**

### **Varsity Band** (may be repeated for credit)

Prerequisite: None

Grade: 9, 10, 11, 12

Credit: 1

Varsity band is open to any member of the student body grades 10-12. Previous band experience is highly suggested. This band will be the “show band” for football games and competitions. The band will focus on reaching a higher level of mastery on their instruments through a variety of music and performances.

### **Jazz Band** (may be repeated for credit)

Prerequisite: Enrollment by audition

Grade: 9, 10, 11, 12

Credit: 1

This group will perform concerts, perform for civic/community functions, and attend a jazz festival. Students need to be highly proficient on their instruments to audition for this group.

### **Music History** (may not be repeated for credit)

Prerequisite: None

Grade: 9, 10, 11, 12

Credit: ½

Students will explore music history from ancient times to the present. This class is open to all students who are interested in all forms of music. No prior musical knowledge is required.

### **String Ensemble** (may be repeated for credit)

Prerequisite: Teacher approval

Grade: 9, 10, 11, 12

Credit: 1

This class is for students who currently play violin, viola, cello, or string bass. Students must currently own their instruments or be able to rent them from a local music store. This ensemble will learn fundamentals of string instruments and of playing ensemble music, will perform at least twice yearly, and will have the opportunity to audition for honors groups and solo festivals.

## **THEATRE DEPARTMENT**

### **Introduction to Theatre** (may not be repeated)

Prerequisite: None

Grade: 9, 10, 11, 12

Credit: ½

Students will learn the fundamentals of play production, concepts in acting technique, technical theatre and a general background of theatre. The aim of this course is to develop individual skills along with discipline involved in a working relationship with other students. Good reading and comprehension skills are necessary to be successful in this course.

**Theatre History and Appreciation** (may not be repeated)

Prerequisite: None

Grade: 9, 10, 11, 12                      Credit: ½

This class explores and examines the history and evolution of theatrical art through history. Students will learn the significance of theatre through the ages and its impact on society and culture. This class is open to all students who are interested in all forms of theatre.

**Advanced Theatre** (may be repeated for credit)

Prerequisite: Introduction to Theatre

Grade: 10, 11, 12                      Credit: 1

Advanced theatre will utilize the methods and concepts applied in theatre, with emphasis on various styles of acting. Special emphasis on staging and directing will provide preparation for a performance, produced by advanced theatre students. This course may be repeated for credit with permission of the instructor.

**Forensics** (semester two; may be repeated for credit with teacher approval)

Prerequisite: None

Grade: 9, 10, 11, 12                      Credit: ½

Forensics class may be used to fulfill the speech requirement **or** ½ credit towards fine arts, but not both. Students must select the requirement they wish to fulfill. The purpose of the class is to develop skills in research, outlining, memorization and character analysis along with acting and speaking techniques for the purpose of forensics competition. The MHS Forensics Team competes in several tournaments during the spring semester, most of which are on Saturdays. Tournament competition and assistance in hosting the MHS tournament are requirements of the course.

**Debate** (semester one, may be repeated for credit with teacher approval)

Prerequisite: None

Grade: 9, 10, 11, 12                      Credit: ½

Debate class fulfills the speech requirement **or** ½ credit towards fine arts, but not both. Students must select the requirement they wish to fulfill. The purpose of the class is to develop skills in research, organization, argumentation, public speaking and critical thinking for the purpose of debate competition. The MHS debate team competes in several tournaments during the fall semester, most of which are on Saturdays. Tournament competition and assistance in hosting the MHS tournament are requirements of the course.

## FOREIGN LANGUAGE DEPARTMENT

<u>Course Title</u>	<u>Grade Level</u>	<u>Credit</u>
French 1	9-10-11-12	1.0
French 2	10-11-12	1.0
Spanish 1	9-10-11-12	1.0
Spanish 2	10-11-12	1.0
Spanish 3	11-12	1.0
AP Spanish 4	12	1.0

### FOREIGN LANGUAGE

#### French 1

Prerequisite: None

Grade: 9, 10, 11, 12                      Credit: 1

French 1 is an elementary course which teaches the basic skills of grammar, conversation, reading, and writing. An emphasis is placed on conversational French. Good English grammar skills are important for success in this class.

#### French 2

Prerequisite: French 1

Grade: 10, 11, 12                      Credit: 1

The second course of French is a continuation of French I with more emphasis on conversation and composition. A basic grammar review is included in the reading and learning of dialogue. The student will be reading narratives and short readings that reflect different aspects of French culture.

#### Spanish 1

Prerequisite: None

Grade: 9, 10, 11, 12                      Credit: 1

Spanish 1 is an elementary course which teaches the basic skills of grammar, conversation, reading, and writing. An emphasis is placed on conversational Spanish, utilizing a wide variety of vocabulary, including verb work. Good English grammar skills are important for success in this class.

## **Spanish 2**

Prerequisite: Spanish 1

Grade: 10, 11, 12

Credit: 1

The second year of Spanish is a continuation of the first year with more emphasis on conversation and composition. A basic grammar review is included in the reading and learning of dialogues. The student will be reading narratives and short readings that reflect different aspects of Spanish culture.

## **Spanish 3**

Prerequisite: Spanish 2

Grade: 11, 12

Credit: 1

This course is a continuation of years one and two of Spanish. Students will continue to increase vocabulary and grammar knowledge. In addition, students will focus on becoming fluent in the language through oral and written practice. This will be accomplished through use of the textbook and supplemental materials. It is highly recommended that students take all three years of Spanish consecutively.

## **AP Spanish 4**

Prerequisite: Spanish 3

Grade: 12

Credit: 1

This course is a continuation of years one, two and three of Spanish. Students will continue to increase vocabulary and grammar knowledge. Students will continue to focus on becoming fluent in the language through oral and written practice. This will be accomplished through use of the textbook and supplemental materials. This course will prepare students for the Advanced Placement test in the spring.

### **ADDITIONAL PROGRAMS**

#### **Basic Skills**

Prerequisite: Placement Only

Grade: 9, 10, 11, 12

Credit: 1

Credit earned in the resource room setting is a service provided to students who have been evaluated and identified for special education, as stated on the student's Individualized Education Plan. The class offers curriculum and instruction in basic, functional, vocational and study skills in accordance with the student's IEP.

#### **Tier 2 Study Skills (At-Risk Program)**

Prerequisite: Placement Only

Grade: 9, 10, 11, 12

Credit: 1

The study skills class is designed to help the student be better prepared to meet the requirements of class; the program seeks to assist students to succeed where they have failed. Assistance is available from the teacher and from peer tutors on daily assignments, test preparation, projects, etc. Student progress is monitored regularly. Classroom teachers give input on student progress and needs.

## MISCELLANEOUS

### **Care of Athletes** (semester two) (Health Science Pathway Course)

Prerequisite: Biology

Grade: 11, 12

Credit: ½

This course is designed to introduce high school students to Athletic Training and other Allied Health Occupations. The topics covered will include injury prevention, management, treatment, and rehabilitation. Included in this study will be a lab experience in First Aid, CPR and basic taping and wrapping for sports injuries. Additionally, the students will be introduced to Sports Nutrition and Sports Psychology. Students will be required to serve a practicum observing athletic training in the field. This will involve some required after school time.

## STUDENT ASSISTANTS

### **Teacher Assistants**

Prerequisite: A student in good standing

Grade: 12

Credit: ¼

Students may receive one-quarter credit per semester for acting as a teacher assistant under the following conditions: 1) The teacher must approve the student. 2) No classroom teacher will be assigned more than one assistant per hour with a maximum of two assistants per teacher. 3) No assistant may be assigned during a teacher's planning period.

### **Peer Tutor (Tier 2 classroom)**

Prerequisite: Good attendance, strong academic background, a student in good standing

Grade: 11, 12

Credit: ¼

Peer Tutors work in the Help Room to provide academic assistance to students from various courses. Tutors will go through training sessions to learn how to properly tutor other students. Topics covered during training are tutoring techniques, communication skills, and different types of study skills. This is an excellent course for students who are considering education as a career.

### **Student Mentor**

Prerequisite: Good attendance, good academic background, a student in good standing

Grade: 12

Credit: 1

Elementary Mentors will assist and mentor students at the primary school (grades K-2), the grade school (grades 3-4-5), or the middle school (grades 6-8). Students are expected to be good role models by the way they conduct themselves. They are to dress appropriately, use appropriate language, and show respect to the adults with whom they work. Students must have their own transportation and a signed parental permission slip to drive to the school at which they will work.

### **For Enrollment Questions Contact:**

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