



# Career and Course Planning Guide

2020-2021

# Mehlville School District

3120 Lemay Ferry Road  
St. Louis, MO 63125  
(314)467-5000

## Board of Education

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## Mission Statement

The mission of the Mehlville School District is to ensure that all students reach their potential by preparing them to be lifelong learners and responsible citizens through a dynamic curriculum, student-centered instruction, a safe and nurturing environment, and community collaboration.



### Mehlville High School (MHS)

3200 Lemay Ferry Road  
St. Louis, MO 63125  
(314) 467-6000

Principal: Jason Landherr  
Assistant Principal: Andrew Ross  
Assistant Principal: Greg Ruzicka  
Assistant Principal: Jessica Schmelzle

### Oakville High School (OHS)

5557 Milburn Road  
St. Louis, MO 63129  
(314) 467-7000

Principal: Tamara Sunkett  
Assistant Principal: Brian Brennan  
Assistant Principal: Jason Buatte  
Assistant Principal: Casey Olearnick



Dear Students and Parents/Guardians,

The faculty and staff at Mehlvile and Oakville High Schools are dedicated to the young people in our community. This Career and Course Planning Guide has been prepared to guide students through a graduation plan which will address their current educational needs and prepare them for post-secondary opportunities. Counselors, teachers, and administrators are knowledgeable and prepared to work with students and parents/guardians in making the best academic decisions possible for our students. This planning guide gives all of us the knowledge of course offerings necessary to make these decisions.

During the registration process, students should work closely with their parents, counselor, teachers, and grade level principal in determining what is appropriate for their Individual Career & Academic Plan. It is important for all students to understand which courses are available at their ability level, which courses require teacher permission, and which courses are required for graduation. As you know, the courses that students initially select become the groundwork for our staffing and the creation of our master schedule. We encourage you to put much thought into this process to ensure that the schedule created for you is most appropriate.

Mehlvile and Oakville High Schools are rich with wonderful courses and teachers. Ultimately, as with anything in life, the personal success in your high school career will equal the time and effort you put into it. Our expectations for all students can be summed up in one sentence: *never give anything less than your very best in everything you do*. Regarding your high school career, that process starts right here with the building of your Individual Career & Academic Plan.

Please review this planning guide carefully. Mehlvile and Oakville High School students will meet with and receive specific instructions and guidance from counselors in plotting out their schedules for next year; however, the ultimate responsibility for deciding which courses best fit your needs in relation to your ability and future goals rests with students and parents.

Sincerely,

Jason Landherr  
Principal, Mehlvile High School

Tamara Sunkett  
Principal, Oakville High School

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### How to Use the Career and Course Planning Guide

This planning guide contains course descriptions developed by faculty to help the student and their parents choose classes to provide an appropriate high school education. Since choosing the right courses often requires making difficult decisions, it is suggested that you follow the steps listed below. We hope this information will be helpful to you in the decision-making process.

- Talk with counselors concerning your abilities, interests, and future goals
- Check graduation diploma requirements (see page 4)
- Read and study this planning guide
- Talk with each of your present teachers concerning courses for next year
- Request help from your parents
- Read and study the Scheduling Procedures (see page 17)
- Talk with your friends about the courses
- Utilize your ICAP (Individual Career & Academic Plan)

*Special Note: Please be aware when selecting courses that high school graduation requirements are not the same as the requirements for college admissions, college athletic agencies, scholarships, or career internships. It is the responsibility of each student to research any of these potential additional requirements in preparation of post-secondary plans. (Examples: Some colleges will not count Journalism II as a fourth English credit. Some colleges require four math credits all at the Algebra I level or higher).*

## Graduation Requirements

### 25 Units of Credit Required for Graduation

<b>Diploma Requirements</b>	<b>Units</b>
English Language Arts	4
Fine Arts	1
Foreign Language or Second Fine Arts	1
Health	1/2
Mathematics	3
Personal Finance	1/2
Physical Education	1
Practical Arts	1
Science	3
Social Studies	3
<b>Total Required Units</b>	<b>18</b>
Electives (chosen from any area)	7
<b>Total Graduation Units</b>	<b>25</b>

#### Earning Credit

The superintendent or designee is directed to assign credit values for courses offered by or through the school district and to develop formulas and procedures for awarding credit to the transfer student who transfers from a district that uses a different standard for awarding credit.

Mehlville School District R-9 recognizes units of credit obtained through accredited schools and school districts, including credits earned through independent study, correspondence courses, or courses delivered primarily through electronic media, such as satellite video, cable video, or computer-driven or online courses. For the purposes of this policy, an "accredited school" is the Missouri Course Access Program (MOCAP); a private agency where students with disabilities are placed by a public school; or any school or school district accredited by the Missouri Department of Elementary and Secondary Education (DESE), the North Central Association of Colleges and Schools (NCA), the Independent Schools Association of the Central States (ISACS), or the University of Missouri Committee on Accredited Schools Non-Public (CAS). If a school or school district is located in another state or country, that school or school district must be accredited by that state's or country's department of education, NCA, ISACS or the equivalent agencies.

The student may earn advanced-standing credit by successfully completing high-school level courses prior to entering the ninth grade. Advanced-standing credit may count toward meeting all graduation requirements, including state minimum requirements.

The district may waive one unit of academic credit in communication arts, math, science, or social studies, whichever is most appropriate, for the student who successfully completes an eligible three-unit career/technical program. The student must request this credit waiver prior to enrolling in the career/technical program for which the waiver is sought.

The student may earn credit for a subject that has been embedded into another subject-area course in accordance with guidelines established by DESE.

Students may earn credit upon demonstration of mastery of the competencies for a particular course for up to 2.0 high school credits with no more than 1.0 units of credit in any one curricular area. Students interested in earning competency-based credit must submit an application to their grade-level principal. If the student demonstrates mastery as determined by the district committee, the credit will appear on the transcript as the course title, "Pass," and "Competency-Based Credit (CBC)." Applications for competency credit may be obtained in the school's counseling office.

The student may earn credit by other means as approved by the Board and in accordance with law.

### **Diplomas**

The student will be awarded either a diploma or certificate of attendance in accordance with this policy and as permitted by law.

A student in the household of an active duty member of the military, including some veterans who are deceased or injured as defined by law, who transfers to Mehlville School District R-9 from another state at the beginning of or during his or her senior year who will not meet the graduation requirements of the district by the end of the senior year will receive a diploma from the sending school district if the student is able to meet the graduation requirements of the sending district. Representatives from Mehlville School District R-9 and the sending district will work with the student to facilitate this alternative. If the sending district refuses to cooperate, Mehlville School District R-9 will use best efforts to allow the student to graduate by the end of the senior year.

Foster care students will be awarded a diploma in accordance with law and Board policy.

The student who completes the district's graduation requirements while under the jurisdiction of the juvenile court will be awarded a high school diploma, even if the student completes the requirements in a different school district.

### **Seal of Biliteracy**

The Missouri Seal of Biliteracy (SoBL) and Distinguished Missouri Seal of Biliteracy is awarded to graduating high school students in districts with a DESE-approved program, who have demonstrated achievement in English, a Language Other Than English (LOTE) and sociocultural competence. All Missouri students studying any of the world's languages are potential Seal candidates. Students wishing to earn the Seal of Biliteracy must submit an application – applications may be obtained in the school's counseling office.

### **Special Education Students**

Depending on a student's disabilities, graduation requirements may be modified or waived by the principal upon the recommendation of the student's Individual Education Plan (IEP) Committee. Graduation credit acquired through this process will be identified by the designation "MOD" for modification on the student's transcript.

## **Alternative Programs**

### **South County Opportunity for the Purpose of Education (SCOPE)**

#### **Day School/Management School**

Credit may be earned through completion of course work for the student who has been suspended from their home school. Maximum credit possible: 3.5 credits per semester.

#### **Night School**

Credit may be earned toward high school graduation by the student who has completed three years of high school. Maximum credit possible: 1.5 credits per semester.

#### **Missouri Option Program**

The Missouri Option Program targets the student who has the capability to complete Missouri high school graduation requirements, but lacks the credits needed to graduate with their class and is at risk of leaving school without a high school diploma. The program specifically targets the student who is 17 or older and who is at least one year behind their cohort group. The student can earn a Mehlville School District diploma by completing specific program requirements and passing the Missouri Option exam. An entrance test is required for this program and should be scheduled with the grade-level counselor.

#### **Personalized Learning Lab (PLL)**

The Personalized Learning Lab is designed to meet the needs of the student who likes to learn at their own pace, use technology, and work in small groups. The program, available to the eligible Mehlville School District high school student, focuses primarily on the student's core subjects like Math, Science, Social Studies, and English. In some cases, a few elective courses will be offered. The PLL provides the Mehlville School District student with a fresh, modern alternative to high school. Outfitted with computers, the student accomplishes courses via cutting edge software, small group instruction, and one-on-one attention. The software utilized provides for high quality, rigorous individual instruction. PLL teachers are able to accomplish an in-depth, differentiated focus.

#### **Virtual Academy**

The Virtual Academy is designed to suit the needs of several types of students in the Mehlville School District attendance area. The Virtual Academy student primarily works from home to complete our high quality, rigorous curriculum. These students typically prefer an alternative approach to education while working more efficiently at their own pace. The Virtual Academy student is also provided with opportunities to work with instructors for a weekly prescribed amount of one-on-one assistance. The Virtual Academy is not a credit recovery program, nor is it designed for the student looking to get ahead while simultaneously attending the traditional high school. The interested student must currently be in good discipline standing and must demonstrate a high level of motivation and self-discipline.

#### **Out-of-District Instruction/Correspondence and Virtual Courses**

For the purposes of this policy, an "accredited school" is the Missouri Course Access Program; a private agency where the student with disabilities is placed by a public school, or any school or school district accredited by the Missouri Department of Elementary and Secondary Education (DESE), the North Central Association of Colleges and Schools (NCA), the Independent Schools Association of the Central States (ISACS), or the University of Missouri Committee on Accredited Schools Non-Public (CAS). If a school or school district is located in another state or country, that school or school district must be accredited by that state's or country's department of education, NCA, ISACS or the equivalent agencies.

## Student Support

### Grading Procedures

Grades are an important part of a student's academic progress. The following information is intended to be helpful to students and their parents in understanding the student's development:

A (90 -100)	=	Outstanding Achievement
B (80 - 89)	=	Above Average Achievement
C (70 – 79)	=	Average Achievement
D (60 – 69)	=	Below Average Achievement
F (0 – 59)	=	Unsatisfactory Achievement

These marks are based upon achievement and effort as indicated by professional judgment. Please use the Parent Portal to check on your child's progress. If you would like to discuss a grade, you may contact the teacher by email or phone; contact information is located on our Web site. You may also contact the office at either high school or your child's counselor to get more information.

### Weighted Grades

The Mehlville School District gives weighted grades for both Advanced Placement and Dual Credit courses. The student in Advanced Placement or Dual Credit courses may receive a .75 increase for all A's, B's, and C's (A=4.75, B=3.75, C=2.75, D=1.0). The student receives a 1.0 increase for all A's, B's, and C's in Advanced Placement or Dual Credit courses deemed to have met additional highly rigorous criteria by the Weighted Grades Committee (A=5.0, B=4.0, C=3.0, D=1.0). Please refer to the course description in this guide for weighted courses.

For the transfer student, based on the student's transcript from another school district(s), any AP or Dual Credit courses offered by Mehlville School District will be given weighted grades. Courses are under review by district professionals and weight may be adjusted based on rigor. Check the online version of this guide for current information.

### Library Media Program

The Library Media Center (LMC) supports the curriculum by providing access to a wide variety of materials in many formats. The library media specialists provide instruction that fosters information fluency. They encourage the reading of both print and electronic resources, and promote the use of materials that meet the student's personal interests along with the student's academic responsibilities.

The library is open every school day from 7:00 a.m. until 3:30 p.m. The student identification card is used for library checkout. Most materials are issued for a two-week period and may be renewed. Overdue materials are assessed a fine.

## Transitioning From High School into a Successful Future

### Support from School Counseling

The Counseling Department encourages the student and their parents to become better acquainted with each student's counselor. Parents should feel free to contact the assigned counselor at any time with a question concerning their child's progress in school or any other matter related to their child's educational or vocational plans. Counselors can be reached by calling the Counseling Office secretary at MHS (extension 6108), or OHS (extension 7108). They will be available to handle homework requests for extended absences. To request homework, please call by 8:00 a.m. on the third consecutive day a student is absent. With block scheduling, this means each class has only been missed once (one A day and one B day).

If parents or the student need any information concerning records or transcripts, they should contact the Registrar at MHS (extension 6107) or OHS (extension 7107). Pursuant to the Family Educational Right and Privacy Act of 1974, permission from parents of a student under 18 is necessary to release any information regarding a student to any colleges, agencies, institutions or individuals. If over 18, permission of the student is required.

The MHS and OHS Web sites (accessed through *mehlilleschooldistrict.com*) give the students, parents, teachers and community members up-to-date information regarding college and career readiness.

The purpose of the School Counseling Program is to help the student obtain information, make wise choices, solve problems, and develop short and long-term goals. A student can make an appointment with a counselor at any time.

### Testing Program

The testing program is an attempt to provide the objective data to be used in understanding the student's needs and abilities. The tests that will be given routinely are listed below. Other tests may be given when necessary.

- **End of Course (EOC) – Required Missouri Assessment Program Testing**

The Missouri Assessment Program assesses the student's progress toward the Missouri Learning Standards. End-of-Course assessments are taken when a student has received instruction on the Missouri Learning Standards for a course, regardless of grade level.

Each student in Missouri, including the Missouri Options Program student, is required to take Algebra I, Biology, English II and Government assessments prior to graduating from high school. For the student who completes the Algebra I EOC assessment prior to high school, Algebra II is the required high school mathematics assessment for accountability purposes.

- **ACT (American College Test)**

District administration of the ACT will occur on a single date, at the same time, and under standardized administration conditions for students who opt to take this district offered test.

**The student may opt to take additional ACT tests at their own expense.** The test is offered six times per year and takes approximately three hours and 30 minutes to complete. To register, or for more information, go to: [www.act.org](http://www.act.org).

- **SAT College Entrance Exam**

The SAT and SAT Subject Tests are offered several times a year. Most students take the SAT for the first time during the spring of grade 11 and a second time during the fall of grade 12. The SAT is a three hour and 45 minute test that measures the student's basic knowledge of subjects they have learned in the classroom, such as reading, writing, and mathematics, in addition to evaluating how they think, solve problems and communicate. To register, go to: [sat.collegeboard.org](http://sat.collegeboard.org).

- **Advanced Placement (AP) Exams**

The student can earn college credit, advanced placement, or both by earning qualifying scores on AP exams. The student may take an AP Exam without taking an AP course. All students choosing to take AP exams are required to pay the cost for each exam in advance.

- **PSAT-NMSQT**

The PSAT/NMSQT is an optional test for the grade 10 or grade 11 student who wishes to assess their ability to do college work. The test measures critical reading, math reasoning, and writing skills that are important for successful academic performance in college. In order to be eligible for the National Merit Scholarship Program, the student must be in the third year of high school and have taken the PSAT test on one of the national test dates.

- **Technical Skill Attainment (TSA) Assessment**

The student who has completed a minimum of three credits in one Career and Technical Education (CTE) program such as Business, Marketing, or Family and Consumer Science is known as a CTE concentrator. The student is given the Technical Skill Attainment (TSA) assessment which aligns with industry-recognized standards.

- **Work Keys**

Work Keys is a system of assessments that measure essential workplace skills that can affect job performance and increase opportunities for career changes and advancement.

- **ASVAB**

The Armed Services Vocational Aptitude Battery (**ASVAB**) is a multiple choice test, administered by the United States Military Entrance Processing Command, used to determine qualification for enlistment in the United States Armed Forces.

## Early College Opportunities

### Dual Enrollment

Dual Enrollment Courses enable high school students to earn college credit while in high school. The student may choose to enroll in an accredited college and pay the college to take a chosen course. Students may take the college courses online or on the college campus. Students must meet with a school counselor to fill out the appropriate paperwork and verify they meet the college requirements by the deadlines given from the Counseling Office. Students can opt to transfer their college credits back to the high school for high school credit. It is the student's responsibility to meet with the high school register to verify transfer credits. College courses of 3 credit hours will be awarded .5 high school credit and any college courses of 4 credit hours or above will be awarded 1.0 high school credit.

### Dual Credit Courses

Dual Credit Courses enable the high school student to receive both high school and college level credit simultaneously. The student wishing to earn college credit in addition to the high school credit must meet the below requirements and is responsible for paying reduced rate tuition to the university. Cost per credit hour and enrollment/payment deadlines vary by institution, so the student must pay attention to these. It is also the responsibility of each student to investigate how many and which transfer credits will be accepted at potential post-secondary universities. More details are available in the counseling office.

The high schools and cooperating universities abide by the Dual Credit guidelines and eligibility requirements which are determined by the Missouri Coordinating Board for Higher Education.

### Dual Credit Eligibility Requirements:

- The student must have permission to participate from a designated school official (principal, counselor, or dual credit coordinator).
- The junior and senior student is automatically eligible if they have a minimum cumulative un-weighted GPA of 3.0 on a 4.0 scale.
- The junior and senior student with a cumulative un-weighted GPA of 2.5-2.99 on a 4.0 scale must provide a signed letter of recommendation from the content area teacher stating that the student will be able to handle the course rigor. Written permission from the student's parent/guardian is also required.
- The sophomore student must have a minimum cumulative un-weighted GPA of 3.0 on a 4.0 scale and must provide a signed letter of recommendation from the content area teacher stating that the student will be able to handle the course rigor. Written permission from the student's parent/guardian is also required.
- The freshmen student must have a minimum cumulative un-weighted GPA of 3.0 on a 4.0 scale, score at the 90<sup>th</sup> percentile or above on the ACT or SAT, and must provide a signed letter of recommendation from the content area teacher stating that the student will be able to handle the course rigor. Written permission from the student's parent/guardian is also required.

Listed below are the courses in which the student can earn dual credit through various universities while enrolled in high school classes.

Anatomy and Physiology	Lindenwood University (MHS)
AP Biology	UMSL (MHS), Saint Louis University (OHS)
AP Calculus	SLU (MHS), Missouri Baptist University, UMSL (OHS and MHS)
AP Chemistry	Missouri Baptist University (MHS), UMSL (OHS)
AP English Language and Composition	UMSL (OHS)
AP French Language and Culture	St. Louis University (MHS)
AP German	UMSL (MHS, OHS)
AP Spanish Language and Culture	St. Louis University (MHS), UMSL (OHS)
AP United States History	Missouri Baptist University (MHS), SLU (MHS), UMSL (MHS, OHS)
AP World Modern	Missouri Baptist University (MHS), SLU (MHS)

Bosnian American Studies	Fontbonne University (MHS, OHS)
Business Law	UMSL (MHS, OHS)
College Algebra	Missouri Baptist University (MHS, OHS), STLCC (OHS)
College Composition	St. Louis University(MHS), UMSL (MHS)
Competitive Forensics: Public Speaking and Debate	UMSL (OHS)
Contemporary Issues: 1945-Present	St. Louis University(MHS), UMSL (MHS)
Financial Planning	UMSL (MHS, OHS)
French III, IV	St. Louis University (MHS), UMSL (OHS)
German III, IV	UMSL (MHS, OHS)
Honors English III	St. Louis University (MHS)
Marketing II	Missouri State University (MHS,OHS)
Pre-Calculus	Missouri Baptist University (MHS, OHS)
Culinary Arts II	Missouri State University (MHS)
Shakespeare's Plays	UMSL (MHS, OHS)
Spanish III, IV	St. Louis University (MHS), UMSL (MHS, OHS)

### Advanced Placement (AP) Program

AP courses are college-level courses taken as a part of the high school programs in the Mehlville School District. AP courses offer the advanced student an opportunity to take courses with more challenging college-level content. There are AP courses offered in English, Math, Social Studies, Science, Foreign Language, Visual Arts and Music. The student who completes AP courses is prepared to take the AP exams, administered each May by the College Board. These exams are scored on a scale of 1 to 5. The student scoring between a 3 and a 5 may qualify for college credit at most colleges and universities. The College Board charges a fee to take an AP exam. In some cases, scholarships are available. For more information on taking an AP course or taking an AP exam, please contact a school counselor, an AP course teacher, or the AP coordinator at either high school.

AP Art & Design - 2D Art and Design	AP German
AP Art & Design - 3D Art and Design	AP Human Geography
AP Art & Design - Drawing	AP Macroeconomics
AP Art History	AP Microeconomics
AP Biology	AP Music Theory
AP Calculus	AP Physics
AP Capstone	AP Psychology
AP Chemistry	AP Spanish Language and Culture
AP English Language and Composition	AP Statistics
AP English Literature and Composition	AP United States Government and Politics
AP European History	AP United States History
AP French Language and Culture	AP World History: Modern

### Project Lead The Way (PLTW) Courses

College credit for PLTW courses may be obtained from a variety of institutions, including St. Louis Community College and Missouri S & T. The student wishing to earn college credit is responsible for paying reduced-rate fees to the college. Please see a school counselor or PLTW instructor for more details. Additional information may be obtained from the PLTW Web site: [www.pltw.org](http://www.pltw.org).

Aerospace Engineering	Engineering Design and Development
Biomedical Innovation	Human Body Systems
Civil Engineering and Architecture	Introduction to Engineering Design
Computer Science A	Medical Interventions
Computer Science Principles	Principles of Biomedical Sciences
Cybersecurity	Principles of Engineering
Digital Electronics	

### Articulated Courses

An articulation agreement between the District and St. Louis Community College was designed to support a smooth transition from high school to career and technical education programs at the college. The student who meets the following conditions and successfully completes articulated courses has the opportunity to earn up to 12 college credit hours:

- Achieve junior or senior status at the high school. Course work taken during the freshman or sophomore year can be eligible if part of a sequence.
- Earn a grade of 80% or higher in articulated courses taken at MHS and OHS.
- Complete six credit hours of college-level coursework towards an Associate degree or certified program at St. Louis Community College with a GPA of 2.0 or higher.

The courses below have Articulation Agreements with St. Louis Community College:

High School Course	St. Louis Community College Course	Credit Hours
Child Development I & II	ECE: 125 Child Growth & Development	3
Foods I	CUL: 101 Safety & Sanitation (Food Safe Certificate Required)	1
Foods II	CUL: 105 Food Preparation Theory (credit by exam)	3
Foods III	CUL: 110 Food Preparation Practical I (credit by exam)	3

### MSDR9 Early College Academy

The MSDR9 Early College Academy (ECA) is an application-based, early-entrance-to-college program located on a STLCC campus. The student attends the MSDR9-ECA for two years, which replaces their junior and senior years of traditional high school. While in the ECA, the student is enrolled in a curriculum consisting of all college coursework taught by professors at STLCC – South County. Upon successful completion, the student earns up to an Associate of Arts in General Transfer Studies as well as a high school diploma. College courses of 3 credit hours will be awarded .5 high school credit and any college courses of 4 credit hours or above will be awarded 1.0 high school credit. The student must meet with a school counselor to verify he or she meets the program requirements. The student must then complete the program application and submit paperwork by the given deadlines in order to be considered for one of the ECA limited spots.

## A+ Schools Program – Earn Financial Incentives for College

Are you interested in attending college but concerned about how to finance that education? We have the help you need! Both Mehlville and Oakville High Schools have been awarded designation as an “A+ School” from the Missouri Department of Elementary and Secondary Education. This designation allows ALL secondary students the opportunity to earn financial incentives\* to any Missouri community college, public vocational/technical school or select 4-year universities in Missouri.

### The Goals of the A+ Schools Program Are:

- To ensure each student graduates from high school
- To ensure each student completes a selection of high school studies that is challenging and has identified measurable learner outcomes
- To ensure each student will proceed from high school graduation to a four-year college, community college, post-secondary vocational or technical school, or a high wage job with the skills necessary to succeed

### The Student Benefits of A+ Schools Program Are:

- Financial incentives to attend any Missouri public community college or vocational-technical school
- Opportunities to learn about jobs and careers through business partnerships
- Career pathways, which link courses of study to careers and enable students to learn more about the career of their choice
- College credits while still in high school through articulated coursework
- Encouragement to attend school regularly, maintain good grades and be a good citizen
- Scholarships offered by a growing number of 4-year universities in Missouri to A+ certified students

### The Student Requirements of A+ Schools Program Are:

- Sign an A+ Student Agreement
- Must have attended a designated A+ School high school for three consecutive years immediately prior to graduation
- Graduate from an A+ School with a cumulative grade point average of 2.5 or above on a 4.0 scale
- Score advanced or proficient on the Missouri Algebra I End of Course (EOC) test. A student who scores below proficient on the Algebra I EOC must meet the combined ACT Math/High School GPA score from the scale below:

ACT Math Score	an d	High School GPA
17	an d	2.5 or greater
16	an d	2.8 or greater
15	an d	3.0 or greater

- Graduate from an A+ School with a cumulative attendance record of 95% or better.
- Perform 50 hours of unpaid academic tutoring on a Mehlville district campus, supervised by a district faculty member, of which up to 25% may include job shadowing.
- Maintain a record of good citizenship and avoidance of unlawful use of drugs and alcohol.
- Secure all available federal post-secondary student financial assistance funds that do not require repayment. (Evidence of completion of **Free Application for Federal Student Aid** must be turned into the A+ Coordinator prior to May 15 of graduating year). Parents may apply online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).
- If male, provide evidence of registering with the Selective Service by age 18. A student may register online at [www.gov.com](http://www.gov.com).

\*The A+ Schools program may provide these financial incentives but are subject to yearly state funding approval.

## **Career Clusters**

A career cluster is an area of interest that helps the student identify a career focus, and provides the student with a context for studying both traditional academic and learning skills specific to a career.

### **What steps are involved in making a career decision?**

- Identify your interests, abilities, and talents.
- Consider the possible careers in each cluster in relationship to those interests, abilities, and talents.
- Decide which career cluster seems to fit best.
- Select courses that are related to the career chosen.
- Follow your Individual Career & Academic Plan (ICAP).

Career choices begin in high school and lead to entry-level work force, military, two-year associate degrees, and/or four-year baccalaureate degrees.

Career interest inventories help the student identify their career interests and make wise career choices. Those are available through the SCOIR & Missouri Connections Websites.

### **Career Clusters:**

#### **Agriculture, Food and Natural Resources**

Producing, processing, marketing, distributing, financing and developing agricultural commodities and resources, including food, fiber, wood products, natural resources, horticulture and other plant and animal products.

#### **Architecture and Construction**

Designing, planning, managing, building and maintaining the built environment.

#### **Arts, Audio-Visual Technology and Communications**

Designing, producing, exhibiting, performing, writing and publishing multimedia content, including visual and performing arts and design, journalism and entertainment services

#### **Business, Management and Administration**

Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations

#### **Education and Training**

Planning, managing and providing education and training services, and related learning support services

#### **Finance**

Planning and providing services for financial and investment planning, banking, insurance and business financial management

#### **Government and Public Administration**

Executing governmental functions including governance, national security foreign service, planning, revenue and taxation, regulation and management and administration at the local, state and federal levels

#### **Health Science**

Planning, managing and providing therapeutic services, diagnostic services, health informatics, support services and biotechnology research and development.

#### **Hospitality and Tourism**

Managing, marketing and operating restaurants and other food services, lodgings, attractions, recreation events and travel related services.

### **Human Services**

Preparing individuals for employment in career pathways that relate to families and human needs

### **Information Technology**

Designing, developing, supporting and managing: hardware, software, multimedia and system integration services

### **Law, Public Safety, Corrections and Security**

Planning, managing and providing legal, public safety, protective and homeland security services, including professional and technical support services

### **Manufacturing**

Planning, managing and performing the processing of materials into intermediate or final products, including related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering

### **Marketing, Sales and Service**

Planning, managing and performing marketing activities to reach organizational objectives

### **Science, Technology, Engineering and Mathematics (STEM)**

Planning, managing and providing scientific research and professional and technical services (such as physical science, social science, engineering), including laboratory and testing services and research and development services

### **Transportation, Distribution and Logistics**

Planning, managing and moving people, materials and goods by road, pipeline, air, rail and water, including related professional and technical support services such as: transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance

## **Tech School Makes Your Future a Reality**

### **Off-campus electives at South Tech High School allow you to...**

- Get a jumpstart on college! Earn valuable college credits.
- Create connections that last a lifetime! Mentor side by side with caring, engaging and expert instructors.
- Experience the best of both worlds! Participate in your home high school activities while learning skills for a lifetime
- Build a road map to success! Develop a customized education and career plan, together with an advisor, based on your unique interests and talents
- Learn TUITION-FREE! Take advantage of public funded career education in high school compared to paying thousands after graduation.

See your counselor for questions, applications, or a copy of the CTE Course Guide; for more information, go to [www.southtechhigh.org](http://www.southtechhigh.org).

## **Individual Career and Academic Plan**

Each student meets with their counselors to begin their Individual Career and Academic Plan through the Missouri Connections Website. The plan is flexible and should be updated each year as interests and plans change.

- Consider the sample plans for the career major(s) of interest.
- Consider the following: Graduation Requirements, Postsecondary Admissions Requirements, NCAA Eligibility Requirements, and Scholarship Requirements.

## **Scheduling Procedures and Course Fees**

### **Scheduling Information**

The student will select classes for the following year, so considerable thought should be given to course selections. Seeking assistance from parents, current teachers and school counselors will help the student determine which courses best align to future educational and/or occupational goals. The student can indicate the levels and courses desired within the curricular areas required for graduation (e.g. Honors, name of math courses, name of P.E. course, etc.) The student should refer to their ICAPs. After course selections are made, schedules will be developed to meet the requests of as many students as possible. Courses listed in this guide may be unavailable due to lack of student interest and/or staff changes.

### **Schedule Changes and the Withdrawal Policy**

Because of the extensive preparation the faculty and administration make to provide the curriculum offerings listed in this planning guide, students are expected to maintain their course schedules for the entire school year.

Schedule changes are only permitted for one of the following three reasons:

- The class is either above or below the student's comprehension level as agreed to by the teacher, counselor, parent and student.
- The student had the teacher in a previous class and failed.
- The student had the teacher previously and there is a documented behavior conflict.
- The student is a senior and needs a schedule change to meet graduation requirements.

### **Course Fees**

Any fee for supplies and materials is clearly identified in the Course Description. Some Family and Consumer Science, Technology & Engineering Education, Music and Visual Arts courses require supplies and materials that are not provided by the District. In these cases, the projects result in consumption or personal use by the student. No student will be prohibited from enrolling in a course due to inability to remit the fee.

## Course Information Summary

Course Name	Page	Course Number	Credit	Grade Level	Prerequisite
<b>Advanced Studies/St. Louis CAPS</b>					
Advanced Placement Capstone: Seminar	25	H9967W	1	11, 12	No
Advanced Professional Studies – Engineering and Advanced Manufacturing	25	HCAPS02	4	11, 12	Yes
Advanced Professional Studies – Global Business and Entrepreneurship	26	HCAPS01	4	11, 12	Yes
Advanced Professional Studies – Medicine and Healthcare	26	HCAPS03	4	11, 12	Yes
Advanced Professional Studies-Technology Solutions & Logistics	27	HCAPS04	4	11, 12	Yes
Leadership	27	H1375	1	11, 12	Yes
MyPath	27	H9971	.5 or 1	11, 12	Yes
Advanced Professional Studies -Pathways to Teaching	27	HCAPS05	4	11, 12	Yes
<b>Business &amp; Marketing</b>					
Accounting I	30	H5050	1	10, 11, 12	No
Accounting II	30	H5060	1	11, 12	Yes
AMPED Business Processes	30	H5311	1	9,10,11,12	Yes
Business Communications	30	H5012	.5	9,10,11,12	No
Business Law	31	H5090W	.5	11, 12	No
Business Management	31	H5020	.5	10, 11, 12	No
Cadet Teaching-Business	31	H5390	.5	12	Yes
Employment Internship	31	H5350	.5 or 1	11, 12	Yes
Entrepreneurship I	31	H5105	.5	11, 12	No
Entrepreneurship II	32	H5110	.5	11,12	Yes
Explorations in Business and Marketing	32	H5005	.5	9,10,11,12	No
Financial Planning	32	H5405W	.5	11, 12	Yes
Independent Study in Business and Marketing	32	H5360	1	11, 12	Yes
International Business	32	H5100	.5	10, 11, 12	No
Marketing I	33	H5325	1	12	Yes
Marketing II	33	H5330W	1	12	Yes
Microsoft Technology I	33	H5070	.5	10, 11, 12	No
Microsoft Technology II	33	H5200	.5	10, 11, 12	Yes
Network Administration I	33	H5341	.5	9,10,11,12	Yes
Network Administration II	34	H5342	.5 or 1	10, 11, 12	Yes
Personal Finance	34	H5400	.5	10, 11, 12	No
Social Media Advertising	34	H5305	.5	11, 12	No
Sports and Entertainment Marketing	34	H5300	.5	10, 11, 12	No
Supervised Office Experience (SOE)	34	H5100	0	12	Yes
Web Design I	35	H5080	.5	10, 11, 12	No
Web Design II	35	H5085	.5	10, 11, 12	Yes

Course Name	Page	Course Number	Credit	Grade Level	Prerequisite
<b>English Language Arts</b>					
Advanced Placement English Language and Composition	37	H0105W	1	11, 12	Yes
Advanced Placement English Literature and Composition	37	H0110W	1	11, 12	Yes
Bosnian American Studies	37	H0017W	.5	11, 12	Yes
Broadcast Journalism	37	H0325	1	11, 12	Yes
Cadet Teaching – English Language Arts	38	H0480	1	12	Yes
College Preparatory Literature	38	H0111	.5	12	Yes
College Preparatory Writing	38	H0112	.5	12	Yes
Debate	38	H0210	.5	9,10,11,12	Yes
Digital Storytelling	38	H0375	.5	11, 12	Yes
English I: American Literature and Composition	39	H0010	1	9	No
English I: Concepts	39	H0013	1	9	Yes
English II: World Literature and Composition	39	H0040	1	10	Yes
English III: English Literature and Composition	39	H0070	1	11	Yes
English IV: College Composition (MHS only)	39	H0101W	1	12	Yes
English IV: Competitive Forensics-Composition, Debate and Public Speaking	40	H0215(MHS) H0215W (OHS)	1	11,12	Yes
English IV: Creative Writing	40	H0330	.5	11, 12	Yes
English IV: Film Analysis and Composition	40	H0420	.5	11, 12	Yes
English IV: Journalism II	40	H0320	1	11, 12	Yes
English IV: Media Literacy and Composition	41	H0410	.5	11, 12	Yes
English IV: Mythology and Legends	41	H0430	.5	11, 12	Yes
English IV: Shakespeare's Plays	41	H0450W	.5	11, 12	Yes
Honors English I: American Literature and Composition	41	H0020	1	9	Yes
Honors English II: World Literature and Composition	41	H0050	1	10	Yes
Honors English III: English Literature and Composition (MHS only)	41	H0081W	1	11	Yes
Independent Study–English Language Arts	41	H0470	.5	12	Yes
Journalism I: News Writing and Reporting	41	H0310	.5	10, 11, 12	Yes
Public Speaking	41	H0200	.5	9,10,11,12	No
Yearbook Workshop	41	H0300	1	10, 11, 12	Yes
<b>English Language Learners</b>					
EL IA	43	H9011	1	9,10,11,12	Yes
EL IB	43	H9012	1	9,10,11,12	Yes
EL II	43	H9015	1	9,10,11,12	Yes
EL III	43	H9020	1	9,10,11,12	Yes
EL IV	44	H9025	1	9,10,11,12	Yes
<b>Family and Consumer Science (FACS)</b>					
Baking and Pastry	45	H4513	.5	10, 11, 12	Yes
Cadet Teaching – Family and Consumer Science	45	H4640	.5	12	Yes
Child Development I	45	H4620	.5	10,11, 12	No
Child Development II	46	H4630	.5	11, 12	Yes
Culinary Arts/Pro Start I	46	H4521	1	10, 11, 12	No
Culinary Arts/Pro Start II	46	H4522	1	10, 11, 12	Yes
Fashion Construction I	46	H4530	.5	9,10,11,12	No
Fashion Construction II	47	H4540	.5	9,10,11,12	Yes
Fashion Construction Studio	47	H4550	.5	10, 11, 12	Yes

Course Name	Page	Course Number	Credit	Grade Level	Prerequisite
<b>Family and Consumer Science (continued)</b>					
Fashion Merchandising	47	H4555	.5	9,10,11,12	No
Foods I	47	H4500	.5	9,10,11,12	No
Foods II	47	H4510	.5	9,10,11,12	Yes
Human Relations	48	H4610	.5	10,11, 12	No
Independent Study in Family and Consumer Sciences	48	H4645	.5	11, 12	Yes
Interior Design	48	H4600	.5	9,10,11,12	No
International Foods	48	H4520	.5	10, 11, 12	Yes
<b>Foreign Language</b>					
Advanced Placement French Language and Culture	50	H6045W	1	12	Yes
Advanced Placement German	50	H6145W	1	11, 12	Yes
Advanced Placement Spanish Language and Culture	51	H6251W	1	12	Yes
Cadet Teaching – Foreign Language	51	H6260	.5	12	Yes
French I	51	H6010	1	9,10,11,12	Yes
French II	51	H6020	1	9,10,11,12	Yes
French III	51	H6030W	1	10, 11, 12	Yes
French IV	52	H6040W	1	11, 12	Yes
German I	52	H6110	1	9,10,11,12	Yes
German II	52	H6120	1	9,10,11,12	Yes
German III	52	H6130W	1	10, 11, 12	Yes
German IV	52	H6140W	1	11, 12	Yes
Spanish I	53	H6210	1	9,10,11,12	Yes
Spanish II	53	H6220	1	9,10,11,12	Yes
Spanish III	53	H6230W	1	10, 11, 12	Yes
Spanish IV	53	H6240W	1	11, 12	Yes
<b>Mathematics</b>					
Advanced Placement Calculus	55	H2411W	1	11, 12	Yes
Advanced Placement Statistics	55	H2365W	1	10, 11, 12	Yes
Algebra I	55	H2100	1	9,10,11,12	Yes
Algebra IA (in conjunction with Algebra IB)	56	H2090	1	9,10,11,12	Yes
Algebra IB	56	H2095	1	9,10,11,12	Yes
Algebra II	56	H2295	1	10, 11, 12	Yes
AMPED Algebra I	56	H2801	1	9,10,11,12	Yes
Cadet Teaching – Mathematics	56	H2420	1	12	Yes
College Algebra	57	H2400W	1	11, 12	Yes
College Prep Mathematics	57	H2382	1	11, 12	Yes
Geometry	57	H2195	1	9,10,11,12	Yes
Geometry in Construction – Geometry	57	H2230	1	9,10,11,12	Yes
Honors Algebra II	58	H2315	1	10,11,12	Yes
Honors Geometry	58	H2220	1	9,10,11,12	Yes
Pre-Algebra	58	H2000	1	9,10,11,12	Yes
Pre-Calculus	58	H2405W	1	11, 12	Yes
Pre-Geometry	58	H2010	1	10, 11, 12	Yes
Probability and Statistics	59	H2350	1	11, 12	Yes

Course Name	Page	Course Number	Credit	Grade Level	Prerequisite
<b>Music</b>					
Advanced Placement Music Theory	62	H7208W	1	10, 11, 12	Yes
Beginning Band	62	H7300	1	9,10,11,12	No
Cadet Teaching – Music	62	H7132	1	12	Yes
Chamber/Madrigal Choir	62	H7250	1	9,10,11,12	Yes
Concert Band	62	H7310	1	9,10,11,12	Yes
Concert Choir Mixed	63	H7240	1	9,10,11,12	Yes
Concert Choir Treble	63	H7230	1	9,10,11,12	Yes
Concert Chorale (MHS only)	63	H7235	1	9,10,11,12	No
Honor Band	63	H7320	1	9,10,11,12	Yes
Independent Study – Music	64	H7350	1	12	Yes
Intermediate Tenor/Bass Choir	64	H7205	1	9,10,11,12	Yes
Jazz Band	64	H7330	1	9,10,11,12	Yes
Music Appreciation - MHS only	64	H7200	1	9,10,11,12	No
Music Appreciation - OHS only	64	H7200	.5	9,10,11,12	No
Musical Theatre	64	H7190	.5	10, 11, 12	Yes
String Orchestra	65	H7340	1	9,10,11,12	Yes
Tenor/Bass Chorus (MHS only)	65	H7210S	.5	9,10,11,12	No
Tenor/Bass Chorus (OHS only)	65	H7210	1	9,10,11,12	No
Treble Chorus (MHS only)	65	H7220S	.5	9,10,11,12	No
Treble Chorus (OHS only)	65	H7210	1	9, 10, 11, 12	No
Treble Chamber Choir	65	H7260	1	9,10,11,12	Yes
<b>Physical Education and Health</b>					
9th Grade Physical Education	67	H8003	.5	9	No
Advanced Aquatics	67	H8065	.5	10,11,12	Yes
Adventure and Outdoor Pursuits	67	H8056	.5	10,11,12	No
Athletic Conditioning	67	H8037	.5	10,11,12	Yes
Basic Aquatics	67	H8060	.5	10,11,12	No
Cadet Teaching - Physical Education	67	H8045	.5	12	Yes
Health and Wellness	68	H8050	.5	9,10,11,12	No
Independent Study - Physical Education	68	H8075	.5	10,11,12	Yes
Lifetime Sports and Fitness	68	H8030	.5	10,11,12	No
Path to 5K/10K	68	H8070	.5	10,11,12	No
Personal Fitness for Life	68	H8040	.5	10,11,12	No
Sports Medicine and Athletic Training	68	H8055	.5	10,11,12	Yes
Strength Training and Conditioning for Boys	68	H8013	.5	10,11,12	No
Strength Training and Conditioning for Girls	69	H8015	.5	10,11,12	No
Team Sports/Fitness	69	H8023	.5	10,11,12	No
<b>Science</b>					
Advanced Placement Biology	71	H3235W	1	11, 12	Yes
Advanced Placement Chemistry	71	H3281W	1	11, 12	Yes
Advanced Placement Physics	71	H3270W	1	11, 12	Yes
Anatomy and Physiology (W MHS only)	72	H3241W	1	11, 12	Yes
Astronomy	72	H3160	.5	10, 11, 12	Yes
Biology	72	H3110	1	10	Yes
Biology Concepts	72	H3100	1	10	Yes
Botany	72	H3200	.5	10, 11, 12	Yes
Cadet Teaching - Science	73	H3310	.5	12	Yes

Chemistry	73	H3060	1	10, 11, 12	Yes
<b>Course Name</b>	<b>Page</b>	<b>Course Number</b>	<b>Credit</b>	<b>Grade Level</b>	<b>Prerequisite</b>
<b>Science (continued)</b>					
Earth/Environmental Science	73	H3192	1	9	No
Earth/Environmental Science Concepts	73	H3191	1	9	Yes
Ecology	73	H3195	.5	10, 11, 12	Yes
Forensics	74	H3220	.5	11, 12	Yes
Fossils and the Story of Ancient Life	74	H3180	.5	10, 11, 12	Yes
Geology	74	H3150	.5	10, 11, 12	Yes
Honors Biology	74	H3120	1	9, 10	Yes
Honors Chemistry	74	H3070	1	10, 11, 12	Yes
Independent Study – Science	75	H3300	1	11, 12	Yes
Meteorology	75	H3170	.5	10, 11, 12	Yes
Physical Science	75	H3024	1	11, 12	Yes
Physical Science Concepts	75	H3023	1	11, 12	Yes
Physics	75	H3420	1	10, 11, 12	Yes
Zoology	75	H3210	.5	10, 11, 12	Yes
<b>Social Studies</b>					
Advanced Placement European History	77	H1370W	1	10, 11, 12	Yes
Advanced Placement Human Geography (*=with approval)	77	H1345W	1	9*,10,11, 12	Yes
Advanced Placement Macroeconomics (OHS only)	77	H1355W	.5	11, 12	Yes
Advanced Placement Microeconomics(OHS only)	77	H1357W	.5	11, 12	Yes
Advanced Placement Psychology	78	H1335W	1.0	11, 12	Yes
Advanced Placement U.S. History	78	H1231W	1	11, 12	Yes
Advanced Placement United States Government and Politics	78	H1090W	1	11, 12	Yes
Advanced Placement World History: Modern	79	H1135W	1	10, 11, 12	Yes
African American Studies	79	H1240	.5	10, 11, 12	No
American Government	79	H1000	1	11, 12	No
Cadet Teaching – Social Studies	79	H1390	.5	12	Yes
Contemporary Issues (MHS only)	79	H1360W	1	11, 12	Yes
Economics	80	H1350	.5	11, 12	No
Explorations in Social Studies	80	H1005	.5	10, 11, 12	No
Honors United States History: Reconstruction to the Modern Era	80	H1111	1	9	Yes
Honors World History: 1450 – Present Day	80	H1105	1	10,11,12	Yes
Independent Study – Social Studies	80	H1380	.5	12	Yes
Introduction to Psychology	81	H1320	.5	10, 11, 12	No
Modern America	81	H1365	.5	11, 12	No
Psychological Inquiry	81	H1330	.5	11, 12	Yes
Sociology	81	H1340	.5	11, 12	No
United States History: Reconstruction to the Modern Era	81	H1109	1	9	No
World History: 1450 – Present Day	81	H1100	1	10, 11, 12	No

Course Name	Page	Course Number	Credit	Grade Level	Prerequisite
<b>Special Education Studies</b>					
Algebra Foundations	84	H9091	1	9,10,11,12	Yes
Community Based Vocational Instruction (CBVI)	84	varies	varies	9,10,11,12	Yes
Cooperative Education (Co-Op) Program	84	H9080	varies	11, 12	Yes
English I Foundations	84	H9095	1	9,10,11,12	Yes
English II Foundations	85	H9096	1	9,10,11,12	Yes
English III Foundations	85	H90961	1	9,10,11,12	Yes
English Lab	85	H9098	1	9,10,11,12	Yes
Everyday English	85	H9085	1	9,10,11,12	Yes
Everyday Math	85	H9087	1	9,10,11,12	Yes
Everyday Social Studies	85	H9092	1	9,10,11,12	Yes
Everyday Science/Health	86	H9068	1	9,10,11,12	Yes
Everyday Social Skills	86	H9065	1	9,10,11,12	Yes
Exploring Teen Issues	86	H9069	.5-1	9,10,11,12	Yes
Math I Foundations	86	H90981	1	9,10,11,12	Yes
Math II Foundations	87	H9089	1	9,10,11,12	Yes
Math III Foundations	87	H9090	1	9,10,11,12	Yes
Personal Finance Foundations	87	H9066	.5	10,11,12	Yes
Reading Lab	87	H0125	1	9,10,11,12	Yes
Self-Advocacy	87	H9071	.5-1	10, 11	Yes
Study Skills	88	H9070	1	9,10	Yes
Transition Study Skills	88	H9072	1	11, 12	Yes
Transition to Work	88	H9083	.5	10, 11, 12	Yes
<b>STEM (Science, Technology, Engineering, Mathematics)</b>					
<b>Biomedical Science:</b>					
Biomedical Innovations	89	HSTEM09	1	12	Yes
Human Body Systems	90	HSTEM07	1	10, 11, 12	Yes
Medical Interventions	90	HSTEM08	1	11, 12	Yes
Principles of Biomedical Sciences	90	HSTEM06	1	9,10,11,12	Yes
<b>Computer Science:</b>					
Computer Science A	91	HSTEM11	1	10, 11, 12	Yes
Computer Science Principles	91	HSTEM10	1	9,10,11,12	No
Cybersecurity	91	HSTEM14	1	11,12	Yes
<b>Engineering:</b>					
Aerospace Engineering (AE)	92	HSTEM15	1	10,11,12	Yes
Civil Engineering and Architecture (CEA) PLTW	92	HSTEM04	1	11, 12	Yes
Digital Electronics (DE) PLTW	92	HSTEM03	1	11, 12	Yes
Engineering Design and Development (EDD) PLTW	93	HSTEM05	1	12	Yes
Introduction to Engineering Design (IED) PLTW	93	HSTEM01	1	9,10,11,12	Yes
Principles of Engineering (POE) PLTW	93	HSTEM02	1	10, 11, 12	Yes

Course Name	Page	Course Number	Credit	Grade Level	Prerequisite
<b>Technology &amp; Engineering Education</b>					
Advanced Metals	95	H4055	1	10, 11, 12	Yes
Advanced Woodworking	95	H4040	1	10, 11, 12	Yes
Cadet Teaching – Technology & Engineering	95	H4400	.5	12	Yes
Computers and Networks	95	H4200	.5	9,10,11,12	No
Drafting I	95	H4100	.5	9,10,11,12	No
Drafting II	95	H4105	.5	9,10,11,12	Yes
Game Programming and Multimedia Design	96	H4225	.5	9,10,11,12	Yes
Geometry in Construction – Construction	96	H2231	1	10, 11, 12	Yes
Graphic Design	96	H4220	.5	9,10,11,12	No
Home Inspection	96	H4045	.5	11, 12	Yes
Home Maintenance	97	H4000	.5	9,10,11,12	No
Independent Study in Technology & Engineering	97	H4350	.5	11, 12	Yes
Metals I	97	H4050	.5	9,10,11,12	No
Metals II	97	H4051	.5	9,10,11,12	Yes
Robotics	97	H4227	1	10, 11, 12	Yes
Woodworking I	97	H4030	.5	9,10,11,12	No
Woodworking II	97	H4035	.5	9,10,11,12	Yes
<b>Theatre</b>					
Acting	98	H7155	.5	9,10,11,12	No
Advanced Acting	98	H7160	.5	10, 11, 12	Yes
Cadet Teaching – Theatre	98	H7186	.5	12	Yes
Independent Study – Theatre	98	H7180	.5	12	Yes
Intermediate Acting	99	H7157	.5	9,10,11,12	No
Musical Theatre	99	H7190	.5	11, 12	Yes
The Stage	99	H7175	.5	10, 11, 12	Yes
Theatre Appreciation	99	H7150	.5	9,10,11,12	No
Theatre Stagecraft I	99	H7165	.5	11, 12	No
Theatre Stagecraft II	99	H7170	.5	11, 12	Yes

Course Name	Page	Course Number	Credit	Grade Level	Prerequisite
<b>Visual Arts</b>					
Advanced Placement Art and Design (Drawing, 2D-Art and Design, 3-D Art and Design)		H7125W	1	11, 12	Yes
Advanced Placement Art History		H7126W	1	10, 11, 12	Yes
Art Exploration		H7124	.5	11,12	Yes
Cadet Teaching – Visual Arts		H7130	.5-1	12	Yes
Ceramics I		H7050	.5	9,10,11,12	Yes
Ceramics II		H7060	.5	10, 11, 12	Yes
Digital Art I		H7115	.5	9,10,11,12	Yes
Digital Art II		H7116	.5	10,11,12	Yes
Drawing I		H7010	.5	9,10,11,12	Yes
Drawing II		H7020	.5	10, 11, 12	Yes
Illustration		H7118	.5	10,11,12	Yes
Independent Study in Visual Arts		H7120	.5-1	12	Yes
Mixed Media		H7090	.5	9,10,11,12	Yes
Painting I		H7030	.5	9,10,11,12	Yes
Painting II		H7040	.5	10, 11, 12	Yes
Photography I		H7070	.5	9,10,11,12	Yes
Photography II		H7080	.5	10, 11, 12	Yes
Sculpture I		H7100	.5	9,10,11,12	Yes
Sculpture II		H7101	.5	10,11,12	Yes
Three-Dimensional Art Foundations		H7005	.5	9,10,11,12	No
Two-Dimensional Art Foundations		H7000	.5	9,10,11,12	No
Video Art		H7007	.5	9,10,11,12	Yes

## Advanced Studies/ St. Louis CAPS

11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Advanced Professional Studies – Global Business and Entrepreneurship (Y)	Advanced Professional Studies – Global Business and Entrepreneurship (Y)
Advanced Professional Studies – Engineering and Advanced Manufacturing (Y)	Advanced Professional Studies – Engineering and Advanced Manufacturing (Y)
Advanced Professional Studies – Medicine and Healthcare (Y)	Advanced Professional Studies – Medicine and Healthcare (Y)
Leadership (Y)	Leadership (Y)
MyPath (S/Y)	MyPath (S/Y)
Advanced Professional Studies -Pathways to Teaching (Y)	Advanced Professional Studies - Pathways to Teaching (Y)
Advanced Placement Capstone – Seminar (Y)	Advanced Placement Capstone – Seminar (Y)

### **Advanced Placement Capstone – Seminar – H9967W**

Advanced Placement Capstone Seminar gives the student a chance to practice core academic skills they need to complete college. The ability to think independently, write effectively, research, collaborate, and learn across disciplines is essential for success in college, career, and beyond. This should elevate the learning environment through a challenging, college-level program with high standards of assessment. The student taking this course is expected to complete two through-course performance tasks and an end-of-course AP exam. There is a fee associated with taking the AP exam.

**Prerequisite: Students in AP Capstone Seminar should have a strong interest in research, the ability to write organized essays, and work independently and as part of a team.**

Open to: 11, 12

Credit: 1 Unit Elective – Two semesters

### **Advanced Professional Studies – Engineering and Advanced Manufacturing – HCAPS02**

This course provides the student the ability to truly step outside the traditional classroom for a fast-paced and unique experience. The projects the student completes come directly from business partners and are designed to give high school students hands-on, real world experience in engineering and advanced manufacturing. The student is fully immersed in a profession-based learning approach and will work collaboratively with professionals in the field of engineering on a regular basis. The course is designed for the student who is interested in engineering and manufacturing fundamentals, entrepreneurship, and innovation. The student will be immersed with engineers and manufacturers using state-of-the-art tools and software to create and test 3D prototypes solving complex problems. The student works in multidisciplinary teams to provide innovative solutions to a company's real-world problems. Engineering projects are tailored to student interest in the fields of chemical, electrical, mechanical, civil, environmental, software/computer, architecture, advanced manufacturing, robotics, and biological. This course is modeled after cutting-edge engineering schools and endorsed by Project Lead the Way. The student works extensively with professionals from industries such as Essex Industries, Monsanto and Ameren. The student has the opportunity to complete the PLTW capstone course requirements as part of the CAPS experience. The student will also have the opportunity to complete an internship with a business and industry partner. The student must apply for acceptance into the STL CAPS program. College credit is available.

**Prerequisite: The student must submit an application to be considered for the program.**

Open to: 11, 12

Credit: 4 Units – Two semesters

### **Advanced Professional Studies – Global Business and Entrepreneurship – HCAPS01**

This course provides the student the ability to truly step outside the traditional classroom for a fast-paced and unique experience. The projects the student completes come directly from business partners and are designed to give the high school student hands-on, real world experience in global business and entrepreneurship. The student is fully immersed in a profession-based learning approach. The student is able to gain experience working with real businesses, assisting and learning through meaningful projects, and working in a variety of fields, including Human Relations, Entrepreneurship, Global Business, Sales, Promotion, Event Planning, Fashion Marketing, Sports and Entertainment Marketing, Finance, Agriculture, Hotel Lodging and Restaurant Management, just to name a few. In addition to being a part of real businesses, the student is also paired with mentors out in the field – individuals who are working each day in these professions. Business partners have included mentors and projects from MasterCard, Boeing and goBRANDgo. In addition to important profession-based learning skills the student acquires, they also gain 21<sup>st</sup> century skills such as problem solving, time and project management skills, business ethics and self-discipline. Along with earning high school credit, the student in the CAPS program will have opportunities to earn college credit. The student will also have the opportunity to participate in DECA (Association of Marketing Students) and FBLA (Future Business Leaders of America). The student must apply for acceptance into the STL CAPS program.

**Prerequisite: The student must complete at least 0.5 credits of any business or marketing course and submit an application to be considered for the program.**

*Open to: 11, 12*

*Credit: 4 Units – Two Semesters*

### **Advanced Professional Studies – Medicine and Healthcare – HCAPS03**

The Medicine and Healthcare course provides unprecedented access to real world experiences in the dynamic field of medicine and healthcare. Alongside some of the region's most experienced medical professionals, the student will advance their understanding of human physiology, disease process, medical terminology, patient care, professionalism and ethics, and provide an exploration of many career opportunities in healthcare. In the classroom, the student will expand upon principles of human physiology through in-depth case studies of body systems, develop fluency in basic medical language, formulate treatment plans for patients, practice physical assessment skills, and perform patient care and life-saving procedures within a high-fidelity simulation lab. These activities are designed to enhance student analysis and problem solving skills. The student also self-selects a focused CAPStone project for the semester, connecting to mentors in their area of interest to develop a project that is real, relevant, and of service to the community. Representing a wide spectrum of healthcare careers, expert guest speakers provide advanced instruction in the medical specialties of anesthesia, cardiology, dermatology, obstetrics, oncology, orthopedics, nephrology, internal medicine, family practice, general surgery, and much more. Outside the classroom, learning experiences will involve numerous site visits to a variety of medical and healthcare facilities exposing students to a variety of medical professions, medical research and innovative advancements. The student will work extensively with professionals from St. Anthony's Medical Center, Barnes-Jewish, and St. Louis University. The student has the opportunity to complete the PLTW capstone course requirements as part of the CAPS experience. The student will also have the opportunity to complete an internship with a business and industry partner. College credit is available.

**Prerequisite: The student must submit an application to be considered for the program.**

*Open to: 11, 12*

*Credit: 4 Units – Two semesters*

### **Advanced Professional Studies – Technology Solutions & Logistics – HCAPS04**

The Technology Solutions and Logistics course is ideal for the student who is interested in developing the professional and technical skills required to forge forward in exploring all areas of technology and creative design. Immerse yourself in a professional environment while you tackle and solve real-world problems using a vast array of technology and design skills. The student interested in technology will perform real world projects for clients utilizing the expertise of diverse guest instructors, mentors and business partners. Strong emphasis is placed on software engineering skills such as programming methodology and problem solving using multiple languages, algorithm design and development, data abstraction and well documented programming, testing and debugging. The student interested in design will create a wide array of digital assets in a profession-based learning environment, which provides opportunities to collaborate with mentors and business clients. The student will network with mentors and business partners delivering real products to their clients as well as creating a professional portfolio that illustrates their creative talent. The student will complete job shadows and an internship with a business and industry partner.

**Prerequisite: The student must submit an application to be considered for the program.**

Open to: 11, 12

Credit: 4 Units – Two semesters

### **Leadership – 1375**

This course provides an opportunity to study, practice and develop group and individual leadership and organizational skills. These skills include, but are not limited to, the following topics or areas: leadership roles, interpersonal relations, project planning, goal setting, civic responsibility, decision making, problem solving, meeting skills and communication.

**Prerequisite: Recommended GPA of 3.0 or higher. The interested student should complete an application.**

Open to: 11, 12

Credit: 1 Unit Elective– Two Semesters

### **My Path – H9971**

In the MyPath course, the student will propose a personalized plan of study focused on post-secondary interests and goals. The student will work with an instructor to collaboratively create a project management plan. Within this plan, the student will identify topics to be covered, curricular standards to be met, learning goals, activities, and a timeline. The student will create periodic presentations on their learning and progress, culminating in a capstone presentation to a public audience.

**Prerequisite: The student must submit an application to be considered for admission to the program.**

Open to: 11, 12

Credit: .5 Unit or 1.0 Unit Elective (One semester or two semesters)

### **Pathways to Teaching – HCAPS05**

This collaborative teaching program helps prepare secondary students for careers in education and training, through an immersive classroom experience. Pathways for Teaching focuses on general theory and practice of teaching and learning, the principles of educational psychology, the planning and implementation of educational activities, and school safety and health. The course combines a focus on teaching methods with time spent in the classroom working directly with students. Students also have the opportunity to interact with education professionals and participate in student education organizations and competitions.

**Prerequisite: Application process**

Open to: 11, 12

Credit: 4 Units - Two semesters

## Business and Marketing

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
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### General Business

<p>Explorations in Business and Marketing (S)</p> <p>Business Communications (S)</p> <p>AMPED Business Processes (Y)</p>	<p>Business Management (S) (10<sup>th</sup> or 11<sup>th</sup> Grade)</p> <p>Marketing I (S)</p> <p>Personal Finance (S)</p> <p>AMPED Business Processes (Y)</p>	<p>Business Law (S) or Business Management (S) (10<sup>th</sup> or 11<sup>th</sup> Grade)</p> <p>Microsoft Technology I (S)</p>	<p>Accounting I (Y)</p> <p>Financial Planning (S)</p>
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### Accounting

<p>Explorations in Business and Marketing (S)</p> <p>Business Communications (S)</p> <p>AMPED Business Processes (Y)</p>	<p>Business Management (S) (10<sup>th</sup> or 11<sup>th</sup> Grade)</p> <p>Marketing I (S)</p> <p>Personal Finance (S)</p> <p>AMPED Business Processes (Y)</p>	<p>Accounting I (Y)</p> <p>Business Management (S) (10<sup>th</sup> or 11<sup>th</sup> Grade)</p> <p>Microsoft Technology I (S) or Web Design I (S)</p>	<p>Accounting II (Y)</p> <p>Business Law (S)</p> <p>Financial Planning (S)</p>
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### Technology

<p>Explorations in Business and Marketing (S)</p> <p>Business Communications (S)</p> <p>AMPED Business Processes (Y)</p> <p>Network Administration I (S)</p>	<p>Business Management (S)</p> <p>Personal Finance (S)</p> <p>AMPED Business Processes (Y)</p> <p>Network Administration II (S) or (Y)</p>	<p>Web Design I (S)</p> <p>Microsoft Technology I (S)</p> <p>Network Administration II (S) or (Y)</p>	<p>Web Design II (S)</p> <p>Microsoft Technology II (S)</p> <p>Employment Internship (Y)</p>
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**Legend:**

**S = Semester**

**Y = Year**

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
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**Marketing/Entrepreneurship**

<p>Explorations in Business and Marketing (S)</p> <p>Business Communications (S)</p>	<p>Business Management (S)</p> <p>Fundamentals of Marketing (S)</p> <p>Personal Finance (S)</p> <p>Sports and Entertainment Marketing (S)</p>	<p>Entrepreneurship I (S)</p> <p>Microsoft Technology I (S)</p> <p>Retail Marketing Management (S)</p> <p>Social Media Advertising (S)</p>	<p>Marketing II (Y) or Marketing I (Y)</p> <p>Entrepreneurship II (S)</p> <p>Employment Internship (S/Y)</p> <p>Independent Study – Marketing (Y)</p>
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**Legend:**

**S = Semester**

**Y = Year**

**Accounting I – 5050**

Learn the skills needed to manage the financial transactions of a business. Accounting I is recommended for the student who is interested in accounting, owning or managing a business, or planning to major in business. The student will learn the fundamentals and principles of double-entry accounting, transactions, journals, ledgers and financial reports. Students enrolled in Accounting I are eligible to join a student business organization (FBLA).

**Prerequisite: None**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

Career Path: Business, Management, and Technology

**Accounting II – 5060**

Accounting II reinforces accounting concepts and topics learned in Accounting I, while introducing new topics related to assets, liabilities, equities and financial analysis. Students learn relevant computing skills for industry managerial accounting and have the opportunity to earn the Intuit QuickBooks Certification, which is highly valued by industry. Students enrolled in Accounting II are eligible to join a student business organization (FBLA).

**Prerequisite: Accounting I**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

Career Path: Business, Management, and Technology

**AMPED Business Processes – H5311**

The course is one part of the combined AMPED Algebra I (Algebra in Manufacturing, Production, Entrepreneurship and Design) course. This Career and Technical Education (CTE) course engages students by integrating business and entrepreneurship skills with the math skills they are learning in their Algebra I course in an authentic, business setting. The student will solve career-centered problems as they run an advanced fabrication lab customizing textile products which could include t-shirts, sweatshirts, blankets, banners, or other printed materials. The proceeds generated from the business aspect of the program will be utilized to self-fund the venture and provide philanthropic opportunities for the student through community service or monetary gifts to local charities. This contextual learning experience combines business entrepreneurship and all Algebra I standards through relevant and interactive, career-centered projects. The student will be enrolled in two courses and receive both an Algebra I and a CTE credit.

**Prerequisite: Current math teacher approval/Must take concurrently with AMPED Algebra I**

Open to: 9,10,11,12

Credit: 1 Unit – One Year (Practical Arts)

Career Path: Business, Management, and Technology

**Business Communications – 5012**

In Business Communications, students develop career skills through focusing on principles of effective communication as well as an awareness of the importance of technology in regards to modern business communication. They will gain a variety of communication skills while engaging in projects relating to real world scenarios. This course will reinforce essential soft skills needed for success. Students enrolled in Business Communications are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

Career Path: Business, Management, and Technology

### **Business Law – H5090W**

This course introduces students to the American legal system and the personal, business, and consumer laws every individual must adhere to in our society. The student will be acquainted with the current legal environment and how this will impact their lives through an understanding of contractual obligations to employment law, bankruptcy law, family law and estate law. The student will also understand the relationship between the law and ethics. Students may have the opportunity to earn three college credit hours from the University of Missouri-St. Louis. Students enrolled in Business Law are eligible to join a student business organization (FBLA).

**Prerequisite: None**

*Open to: 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Business, Management, and Technology*

**Weighted: 0.75**

### **Business Management – 5020**

Business Management provides students insight into the way businesses work from the view point of both employees and managers. Students will explore business management concepts such as, ethics/social responsibility, workplace communication, and government regulation of business. Students enrolled in Business Management are eligible to join a student business organization (FBLA).

**Prerequisite: None**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Business, Management, and Technology*

### **Cadet Teaching – Business – 5390**

This course is designed to provide an opportunity for exposure to the field of business education. This course gives the student the opportunity to participate in many activities that will both familiarize him/her with the teaching process, as well as strengthening his/her own business skills. The student will develop the leadership and organizational skills needed in any working environment.

**Prerequisite: Application approval**

*Open to: 12*

*Credit: ½ Unit – One Semester (elective)*

*Career Path: Business Management and Technology*

### **Employment Internship – 5350**

Students earn credit for a paid or unpaid employment internship which may or may not occur during school hours. Students will apply class course work on the job and learn professional workplace soft skills to become a successful employee. To earn credit for this internship, the student works a required minimum number of hours during the school year and completes written assignments related to their employment internship experience in business or marketing. Students must be concurrently enrolled in a qualifying business or marketing course. Students enrolled in Employment Internship are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: Application process plus concurrent enrollment in Business or Marketing Course**

*Open to: 11, 12*

*Credit: 1/2 to 1 Unit – One Semester or Two Semesters (Practical Arts)*

*Career Paths: Business Management and Technology*

### **Entrepreneurship I – H5105**

Entrepreneurship I introduces students to a wide array of basic entrepreneurial concepts and skills. The course introduces the student to the essentials of business activities, including managing and marketing. Students will have the opportunity to learn what it takes to create a new business. Students desiring to advance their business idea can do so in Entrepreneurship II. Students enrolled in Entrepreneurship I are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: None**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Business, Management, and Technology*

### **Entrepreneurship II – H5110**

Entrepreneurship II continues students' study of the entrepreneurial concepts and skills learned in Entrepreneurship I. In this course students will fully explore their business idea and create a specific business plan. Students will investigate more in depth business concepts, including managing, marketing, finance and accounting. Students enrolled in Entrepreneurship II are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: Entrepreneurship I**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Business, Management, and Technology*

### **Explorations in Business and Marketing – H5005**

Curious about how business works? Want to know more about the relationship between consumers, workers, and citizens? Explorations in Business & Marketing introduces students to how business works in today's society. Students will explore aspects of the business world, including marketing, management and leadership, global economics, and finances. This course will prepare students for future courses in business and marketing. Students enrolled in Explorations are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester*

*Career Path: Business, Management, and Technology*

### **Financial Planning – H5405W**

Financial Planning expands on the concepts introduced in Personal Finance to give students a more in depth look at their financial future. Students will learn strategies to build lifelong financial wealth and security. Topics include investing, estate planning, tax planning, and understanding financial literacy. Financial Planning is the course for students interested in a strong financial future. Students may have the opportunity to earn three college credit hours from the University of Missouri-St. Louis. Students enrolled in Financial Planning are eligible to join a student business organization (FBLA).

**Prerequisite: Successful completion of Personal Finance**

*Open to: 11, 12*

*Credit: ½ Unit – One Semester*

*Career Path: Business Management and Technology*

**Weighted: 0.75**

### **Independent Study in Business and Marketing – H5360**

This course is designed to provide students an opportunity to pursue advanced study in business and marketing beyond the normal curricular offerings. Students will create a project, with instructor approval, to investigate specific areas of interest based upon each individual's needs and interest. Students enrolled in Independent Study in Business and Marketing are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: Application process**

*Open to: 11, 12*

*Credit: ½ to 1 Unit – One to Two Semesters (Practical Arts)*

*Career Path: Business, Management, and Technology*

### **International Business – H5100**

Conducting business in a global environment requires knowledge of various cultures and business practices. The course introduces the student to business activities in the global setting with regards to management, marketing, economic and political/legal constructs. The course is designed to help students understand the nature of global variations in culture that affect businesses. Students enrolled in International Business are eligible to join a student business organization (FBLA).

**Prerequisite: None**

*Open to: 10, 11, 12*

Credit: ½ Unit – One Semester (Practical Arts)  
Career Path: Business, Management & Technology

### **Marketing I – H5325**

Marketing is key to how businesses get their products to consumers. Marketing I will focus on multiple marketing functions where students will learn strategies including product development and selling. This course prepares students to use marketing concepts in current and future careers. Students enrolled in Marketing I are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: None**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

Career Path: Business, Management, and Technology

### **Marketing II – H5330W**

Marketing is key to how businesses get their products to consumers. Marketing II will focus on advanced marketing functions where students will learn strategies including marketing information management and integrated marketing communications. This course prepares students to use advanced marketing concepts in current and future careers. Students enrolled in Marketing II are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: Successful completion of one of the following courses: Marketing I, Social Media Advertising, Sports & Entertainment Marketing or Entrepreneurship I**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

Career Path: Business, Management, and Technology

**Weighted: 0.75**

### **Microsoft Technology I – H5070**

Students are exposed to a variety of educational technologies; however, college and career technology can differ greatly from the tools they use in school. Students will review and expand their knowledge of Microsoft Word and PowerPoint as it applies to the business world. Students will have the opportunity to earn Core Microsoft Office Specialization certification which is highly valued in industry. Students enrolled in Microsoft Technology I are eligible to join a student business organization (FBLA).

**Prerequisite: None**

Open to: 10, 11, 12

Credit: 1/2 Unit – One Semester (Practical Arts)

Career Path: Business, Management, and Technology

### **Microsoft Technology II – H5200**

Students are exposed to a variety of educational technologies; however, college and career technology can differ greatly from the tools they use in school. Students will review and expand on their knowledge of Microsoft Excel and Access as it applies to the business world. Students will have the opportunity to earn Core Microsoft Office Specialization certification which is highly valued in industry. Students enrolled in Microsoft Technology II are eligible to join a student business organization (FBLA).

**Prerequisite: Successful completion of Microsoft Technology I**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

Career Path: Business, Management, and Technology

### **Network Administration I – H5341**

Students in the Tiger Tech or Panther Tech Help Desk will support the Mehlville School District's 1:1 initiative. Students will apply problem-solving skills and explore computer maintenance through diagnosing hardware and software problems, installation of updates, and the repairing of damaged devices. Additionally, students will pursue an independent learning pathway in which they may earn certifications and/or credentialing within the field of Information Technology.

**Prerequisite: Application and department approval**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester

Career Path: Business, Management, and Technology

### **Network Administration II – H5342**

The student-run tech support prepares students to provide first-line technical support to students, support staff, and teachers. Students are trained to listen, observe, and assess general end-user issues. The hands-on learning environment provides students the opportunity to learn how to expand on knowledge of operating systems, hardware, software, and network configurations problems as well as processing service tickets and inventory stock. Additionally, students will pursue an independent learning pathway in which they may earn certifications and/or credentialing within the field of Information Technology.

**Prerequisite: Application, completion of Network Administration I or completion of PLTW Engineering/Computer Science course, or Department approval.**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester OR 1 Unit – Two Semesters

Career Path: Business, Management, and Technology

### **Personal Finance – H5400**

Understanding and managing personal finances are key to one's future financial success. Students will learn how choices influence occupational options and future earning potential, and will apply decision-making skills to evaluate career choices and set personal goals. The course content includes wise spending, saving, and credit decisions and effective use of income to achieve personal financial success. Students enrolled in Personal Finance are eligible to join a student business organization (FBLA).

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Personal Finance requirement)

Career Path: Business Management and Technology

### **Social Media Advertising – H5305**

Social Media Advertising will focus on the latest technology and platforms used by businesses to promote their products and services. Students will learn how to use current social networking sites, micro-blogging sites, video-sharing sites, blogging, mobile couponing and more. They will create marketing strategies, implement marketing plans and measure their success. Students enrolled in Social Media Advertising are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: None**

Open to: 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

Career Path: Business, Management, and Technology

### **Sports and Entertainment Marketing – H5300**

Sports and Entertainment Marketing combines entertainment and traditional marketing. In the class, students can learn basic marketing principles and become immersed in the multibillion dollar sports and entertainment industry. Students will understand the business behind major entertainment events. Students enrolled in Sports and Entertainment Marketing are eligible to join student business organizations (DECA & FBLA).

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

Career Path: Business, Management, and Technology

### **Supervised Office Experience (SOE) – H5100**

Supervised Office Experience (SOE) is designed for the student interested in working with others in an employer-employee situation in the school office and/or for teachers, counselors or library staff. The student is trained and supervised while working at an assigned station. An application must be made and approval must be given before enrollment can be completed.

**Prerequisite: GPA of 3.0 or higher**

Open to: 12

No Credit

### **Web Design I – H5080**

Web Design I introduces students to the fundamentals of developing and publishing effective business Web pages. Students design and create a website that is easy to navigate, visually appealing, and effectively communicates a purpose. The class will explore the use of computer animation, graphic and technical details, and design theory. Students enrolled in Web Design I are eligible to join a student business organization (FBLA).

**Prerequisite: None**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Business, Management, and Technology*

### **Web Design II – H5085**

Web Design II focuses on advanced techniques in web design with particular emphasis on design elements involving layout, navigation and business client/customer interaction. Students will complete hands on web design exercises using advanced aspects of current web design software. Students will create a fully functioning professional website. Students enrolled in Web Design II are eligible to join a student business organization (FBLA).

**Prerequisite: Successful completion of Web Design I**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Business, Management, and Technology*

## English Language Arts

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<p>English I: Concepts</p> <p>English I: American Literature and Composition (Y)</p> <p>Honors English I: American Literature and Composition (Y)</p>	<p>English II: World Literature and Composition (Y)</p> <p>Honors English II: World Literature and Composition</p>	<p>English III: English Literature and Composition (Y)</p> <p>Honors English III: American Literature and Composition (MHS) (Y)</p> <p>AP English Language and Composition (Y)</p> <p>AP English Literature and Composition (Y)</p>	<p><b>English Classes That Meet the 4<sup>th</sup> Year Requirement:</b></p> <p>AP English Language and Composition (Y)</p> <p>AP English Literature and Composition (Y)</p> <p>College Composition (MHS) (Y)</p> <p>Competitive Forensics (Y)</p> <p>Journalism II (Y)</p> <p>Bosnian-American Studies (S)</p> <p>Creative Writing (S)</p> <p>Media Literacy and Composition (S)</p> <p>Film Analysis and Composition (S)</p> <p>Mythology and Legends (S)</p> <p>Shakespeare's Plays (S)</p> <p>Public Speaking (S)</p> <p>Debate (S)</p> <p>College Preparatory Literature (S)</p> <p>College Preparatory Writing (S)</p>
<p>Public Speaking (S)</p> <p>Debate (S)</p> <p><b>Legend:</b>  <b>S = Semester</b>  <b>Y = Year</b></p>	<p>Public Speaking (S)</p> <p>Debate (S)</p> <p>Yearbook Workshop (Y)</p> <p>Broadcast Journalism (Y)</p>	<p>Public Speaking (S)</p> <p>Debate (S)</p> <p>Digital Storytelling (S)</p> <p>Yearbook Workshop (Y)</p> <p>Journalism I: News Writing and Reporting (S)</p> <p>Broadcast Journalism (Y)</p>	

**English classes that count as an Elective/non-English credit:**

- Broadcast Journalism (Y)
- Cadet Teaching (Y)
- Digital Storytelling (S)
- Independent Study (S)
- Journalism I (S)
- Yearbook Workshop (Y)

### **Advanced Placement English Language and Composition – H0105W**

Advanced Placement English Language and Composition serves as a rigorous course, preparing the student for college level composition as well as the AP English Language and Composition exam offered at the end of the year. The student will read for a variety of purposes and analyze rhetorical modes of primary nonfiction pieces, composing developed essays each semester as well as timed writing pieces. The student will also develop revision strategies, a sophisticated vocabulary, and critical discussion and rhetorical skills. The student taking this course must fulfill a summer reading requirement. Dual credit and Advanced Placement credit offered.

**Prerequisite: Students who have had experience in rhetorical analysis, argument, and synthesis, as well as the ability to read college level texts, may more easily address the objectives of the course. Successful completion of English II is required.**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (English Language Arts)

**Weighted: 1.0**

### **Advanced Placement English Literature and Composition – H0110W**

This course will prepare the student to take the Advanced Placement English Literature and Composition exam offered at the end of the school year. Through class writing activities, the student will become an active, skilled reader of prose written in various periods, disciplines and rhetorical contexts and clear, cogent, even elegant, writers. The student will create expository, analytical, and argumentative compositions that introduce complex ideas and develop them using evidence drawn from their reading. The student taking this course must fulfill a summer reading requirement. Dual Credit and Advanced Placement credit offered.

**Prerequisite: Students who are successful in AP Literature must be able to read and comprehend college-level texts and apply the conventions of Standard Written English in their writing. Successful completion of English II is required.**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (English Language Arts)

**Weighted: 1.0**

### **Bosnian American Studies – H0017W**

A semester course, Bosnian American Studies is available for Dual-Credit through Fontbonne University. In this writing and research intensive course, the student will be exposed to a wide range of fiction and non-fiction texts designed to bring a broad synthesis of sources and methods to bear on the understanding of the Bosnian war, genocide, and immigration to St. Louis in the late twentieth and early twenty-first centuries. Student research projects will include the creation of primary source documents for the Bosnia Memory Project or other authentic audiences.

**Prerequisite: 2.5 minimum GPA**

Open to: 11, 12

Credit: ½ Unit – One Semester (English Language Arts)

**Weighted: .75**

### **Broadcast Journalism – H0325**

The broadcast journalism student will analyze professional electronic media and discuss journalism ethics, then produce their own news show in group/team environments as well as individually. Discussions will include script-writing, dialogue, and the roles and functions of writers, producers and directors. The student will create video productions, including visual stories for news magazine programs, in-house commercials, music videos, and in-school promotions. They will write and create their own video productions, or write their own segments from video filmed by classmates, for a news magazine program that can be aired throughout the school and community on websites or cable television. The student will also perform business operations, such as selling and creating advertising.

**Prerequisite: English I**

Open to: 11, 12 (10 with current teacher approval)

Credit: 1 Unit – Two Semesters (Practical Arts); (the student may take this course more than once; repeated course will be an ELA elective credit)

### **Cadet Teaching – English Language Arts – H0480**

This course gives the student the opportunity to participate in many activities that will both familiarize him/her with the teaching process as well as strengthen his/her own English language arts skills. The student will develop the leadership and organizational skills needed in any working environment.

**Prerequisite: Application approval**

Open to: 12

Credit: 1 Unit – Two Semesters (elective)

### **College Preparatory Literature – H0111**

This course is designed to challenge the college-bound student who is striving to improve reading and analytical skills. The course includes the following genres of literature: novel, short story, poetry, drama and film.

**Prerequisite: English I, II and III**

Open to: 12

Credit: ½ Unit – One Semester (English Language Arts)

### **College Preparatory Writing – H0112**

This senior course is designed to challenge the college-bound student who is striving to achieve higher-level composition and language skills. The course includes practice in the writing process resulting in the following polished essays: narrative, evaluative, research, analytical, argumentative, compare/contrast. The course also includes vocabulary development and intensive grammar review focusing on ACT requirements.

**Prerequisite: English I, II and III**

Open to: 12

Credit: ½ Unit – One Semester (English Language Arts)

### **Debate – H0210**

This course offers the student extensive practice and experience in a variety of argumentative situations, encouraging individual thought, analysis, and synthesis based on perceptive criticism. The student will participate in at least one full competitive debate tournament, requiring time after school; thus, the student must be MSHSAA eligible.

**Prerequisite: Public Speaking, Acting or with current teacher approval**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (English Language Arts)

### **Digital Storytelling – H0375**

The student will review and apply fundamentals of journalism, including ingredients of a good story. The student will research with a purpose and select meaningful projects that reflect higher-level thinking and depth of knowledge. The student will conduct interviews with integrity and apply ethics of digital reporting. The student will learn and apply techniques to hook and hold an audience. The student will refine editing and production skills to create a dynamic viewing and listening experience for the viewer. The student will also evaluate and implement distribution strategies for their work after analyzing best practices in promotion. The course will culminate with a film festival that will showcase the work of Digital Storytelling to students, parents and community members. Travel off-campus may occur (with parent permission) for this course.

**Prerequisite: Successful completion of English I and English II; application process (Broadcast Journalism and Journalism I recommended but not required)**

Open to: 11, 12

Credit: ½ unit – one semester (Practical Art or elective); the student may take this course more than once.

**English I: American Literature and Composition – H0010**

English I explores the various genres and themes of American Literature, emphasizing reading comprehension and analysis skills. The student will investigate the relationship between society and the individual, and how this relates to the American identity. The student will write regularly while developing argumentative, research and narrative skills. Participation in informal and formal class discussion will be expected daily.

**Prerequisite: None**

Open to: 9

Credit: 1 Unit – Two Semesters (English Language Arts)

**English I: Concepts – H0013**

The ability to communicate clearly and effectively through oral and written mediums is essential to academic success in high school courses. The student in English I Concepts will develop these crucial skills through exposure to various genres and themes to enhance a basic understanding of language and literature at the high school level. The instructor will provide differentiated instruction as well as individualized attention to each student, and promote skills for student success in high school. English I Concepts will reintroduce and reinforce student knowledge of library resources, will help the student to incorporate Standard English into their written and oral communication, and will further develop their critical analysis skills.

**Prerequisite: Placement will be determined by teacher recommendation**

Open to: 9

Credit: 1 Unit – Two Semesters (English Language Arts)

**English II: World Literature and Composition - H0040**

English II: World Literature and Composition explores the various genres of world literature, emphasizing historical perspectives and cultural themes through close reading and analysis. The student will write regularly while developing argumentative, research, and rhetorical skills. Participation in informal and formal class discussion will be expected.

**Prerequisite: Successful completion of both semesters of English I**

Open to: 10

Credit: 1 Unit – Two Semesters (English Language Arts)

**English III: English Literature and Composition – H0070**

English III: English Literature and Composition explores the various genres of English Literature emphasizing close reading and analysis. The student will write regularly while developing higher-level argumentative, research, and rhetorical skills. Participation in informal and formal class discussion will be expected daily.

**Prerequisite: English I and II**

Open to: 11

Credit: 1 Unit – Two Semesters (English Language Arts)

**English IV: College Composition –H0101W (MHS only)**

This course is designed to challenge the college-bound student who has mastered high school level composition and language skills. Focusing on expository writing, the course includes the essay, literary analysis, the research paper, vocabulary development and intensive grammar review. The student taking this course must fulfill a summer reading requirement. Dual credit offered.

**Prerequisite: English I, II, and III with a “B” or higher**

Open to: 12

Credit: 1 Unit - Two Semesters (English Language Arts)

**Weighted: 1.0**

### **English IV: Competitive Forensics: Composition, Debate and Public Speaking – H0215 (MHS), H0215W (OHS)**

This year-long course extends the depth and breadth of skills learned and practiced in public speaking and debate with frequent interscholastic competition, giving the student access to exercises and assessments in school districts across Missouri. The student will choose areas of focus within debate and speech. Forensic team participation is required, with a minimum of six tournaments and district competition. Assessment will be through unit projects, individual and group work, performance and presentations. This course may be taken for college credit through the University of Missouri-St. Louis. Dual credit offered at OHS only.

**Prerequisite: Debate**

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts) - This class may be repeated for additional credit.*

**Weighted: 0.75 (OHS only)**

### **English IV: Creative Writing – H0330**

This study of creative writing will include the major genres of literature that include poetry, short fiction, creative non-fiction (historical fiction) and drama. The focus of the class is the application of literary techniques, the process of writing multiple drafts, the revision and editing processes, and contribution to a class portfolio. The student will analyze texts of published authors and peers. The student will use speaking and listening skills to share their writing. The student will also research the process of publication and prepare one piece of literature for a particular publication.

**Prerequisite: English I and II**

*Open to: 11, 12*

*Credit: ½ Unit – One Semester (English Language Arts)*

### **English IV: Film Analysis and Composition – H0420**

This English Language Arts course offers the student an opportunity to view film as an art form and write and talk about the experience. It provides an overview of the roles involved in producing a film including directing, screenwriting, editing, acting, and other areas of creativity. This film course covers major film genres and early film history. It also examines film's role and influence in society. A minimum of three major finished writing pieces, Socratic discussion, and a culminating presentation are required. Formats include film review, critical essay, direct application response, compare and contrast essay, student produced film, and persuasive presentation. Additional assignments for each film will also be required.

**Prerequisite: English I and II**

*Open to: 11, 12*

*Credit: ½ Unit – One Semester (English Language Arts)*

### **English IV: Journalism II – H0320**

This course offers the student the opportunity to continue to apply their journalistic skills. Editors of the school news magazine and student-produced media website are chosen from this class. In addition to the publication of news magazine/online content, the student will also produce special publications under the guidance of the editors and adviser. The student will refine their skills in the following areas: writing, photography, design, business and emerging media. The student can expect to spend time outside of class during publication deadlines. Please see adviser for application.

**Prerequisite: English I, II and Journalism I**

*Open to: 11, 12*

*Credit: 1/2 Unit – One Semester (English Language Arts)*

#### **English IV: Media Literacy and Composition – H0410**

This English Language Arts course is designed to teach the skills necessary to analyze a variety of media messages in society. The student will study print and television advertisements, movies, television, music, news, and social media. Using these media as text, the student will determine how media shapes and influences our society. In addition to numerous nonfiction articles, critical thinking skills will be applied in order to “read” advertisements, TV shows, and films. Additionally, the student will complete three major projects, one presentation, and various short writing assignments during the semester.

**Prerequisite: English I and II**

Open to: 11, 12

Credit: ½ Unit – One Semester (English Language Arts)

#### **English IV: Mythology and Legends – H0430**

This course begins with a study of classical mythology, focusing on the universal human concerns and questions that myths reflect. Units on other mythological systems focus on the core themes and values cultures share, as well as their connections to a variety of academic disciplines.

**Prerequisite: English I and II**

Open to: 11, 12

Credit: ½ Unit – One Semester (English Language Arts)

#### **English IV: Shakespeare’s Plays – H0450W**

This course includes a study of the dramatic works of the writer we call “Shakespeare.” This class will include the study of plays representing each genre that Shakespeare penned: comedy, history, tragedy, and romance. The student will also study some of Shakespeare’s sonnets. This class will encourage the student not only to enjoy the works of Shakespeare but will involve an analysis of the Elizabethan times which created such a talented writer and a discussion of dramatic technique. Dual credit offered.

**Prerequisite: English I and II with a 3.0 in all English classes taken and an overall GPA of 3.0**

Open to: 11, 12

Credit: ½ Unit – One Semester (English Language Arts)

**Weighted: 0.75**

#### **Honors English I: American Literature and Composition – H0020**

Honors English I: American Literature and Composition explores the various genres and themes of American Literature emphasizing reading comprehension and fundamental analysis skills. The student will investigate the relationship between society and the individual, and how this relates to the American identity. The student will write regularly while developing argumentative, research and narrative skills. Participation in informal and formal class discussion will be expected daily. This course is designed to challenge the student who has mastered basic composition skills. The student taking this course must fulfill a summer reading requirement.

**Prerequisite: Current teacher approval**

Open to: 9

Credit: 1 Unit – Two Semesters (English Language Arts)

#### **Honors English II: World Literature and Composition – H0050**

Honors English II: World Literature and Composition explores the various genres of world literature with emphasis on historical perspectives and cultural themes through close reading and analysis. The student will write regularly while developing more sophisticated argumentative, research, and rhetorical skills. Participation in informal and formal class discussion will be expected. This course is designed to challenge the student who has mastered basic composition and language skills. The student taking this course must fulfill a summer reading requirement.

**Prerequisite: English I with a “B” or higher**

Open to: 10

Credit: 1 Unit – Two Semesters (English Language Arts)

### **Honors English III: English Literature and Composition – H0081W (MHS only)**

This course includes a survey of English literature. Compositions include argumentative and analytical essays, research, and documentation. This course requires active participation in formal and informal presentations, Socratic seminars, and small group discussions. This course is designed to challenge the student who has mastered basic composition and language skills. This course is offered as dual-credit through St. Louis University to the qualified student. The student taking this course must fulfill a summer reading requirement. Dual Credit offered at MHS only.

**Prerequisite: English I and II with a “B” or higher**

*Open to: 11*

*Credit: 1 Unit – Two Semesters (English Language Arts)*

**Weighted: 1.0**

### **Independent Study – English Language Arts – H0470**

This course is designed for the student who possesses a high degree of independence and responsibility, and who desires to investigate topics not available through regular course work. The course objectives, outline and evaluation procedures must be developed by the student and teacher and submitted to the department chairperson prior to enrollment.

**Prerequisite: English I, II and III**

*Open to: 12*

*Credit: ½ Unit – One Semester (English Language Arts)*

### **Journalism I: News Writing and Reporting – H0310**

The student will learn the writing structure of the straight news story, the feature, the editorial and the sports article. The student is encouraged to collect facts by interviewing students, teachers and administrators, and to help publish the school newspaper online and/or in print. The student will be actively involved in the production of articles and will study photography, magazines, broadcasting, advertising and social media.

**Prerequisite: English I recommended but not required**

*Open to: 10, 11, 12 (9 with current teacher approval)*

*Credit: ½ Unit – One Semester Practical Art (The student may take this class more than once; repeated course will receive English Language Arts elective credit).*

### **Public Speaking – H0200**

This course is designed to offer the novice speaker a number of opportunities to organize and prepare public speaking and oral interpretation assignments. The student will develop poise and confidence before an audience. The student will learn about the role of communication in our lives, the communication model, spatial relationships, delivery styles, and the effectiveness of language, gestures, and organization techniques. The student will be encouraged to participate in competitive speech tournaments, requiring time after school. This course may only be taken one time.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit - One Semester (English Language Arts)*

### **Yearbook Workshop – H0300**

In this course, the student produces the senior high yearbook. Each student learns various skills while producing the yearbook, including copy writing and reporting, business (sales/marketing), layout and design and photography. The student learns to accept responsibility for deadlines and to cooperate in a group effort.

**Prerequisite: English I**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Practical Arts)*

## English Language Learners

### EL IA – H9011

The high school ELL course is designed for the non-native speaker testing at beginning and, in some cases, intermediate levels of English proficiency. The course will introduce the student to functional and social English as well as English language skills necessary for functioning in the American classroom. Activities building communicative skills in listening, speaking, reading and writing will be grade and age appropriate. Further work will offer support in the selected content areas of social studies, math, science and literature. Attention will be given to needed oral comprehension leading to facility with note taking. Basic writing skills, based on patterned sentences and rhetorical strategies, will be addressed. A scaffold approach to the introduction of English text will facilitate reading comprehension. The student in EL IA will be concurrently enrolled in EL IB.

**Prerequisite: Language assessment and current teacher approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts or Elective)*

### EL IB – H9012

The EL IB course is intended to extend English Language acquisition from EL IA, particularly in the areas of academic language and disciplinary content vocabulary and context. The course is designed for the non-native English speaker testing at the beginning level of English proficiency. Students will practice oral fluency as well as reading and writing skills. The student in EL IB will be concurrently enrolled in EL IA.

**Prerequisite: Concurrent enrollment in EL IA**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts or Elective)*

### EL II – H9015

The high school EL II course is designed for the non-native speaker testing at beginning and, in some cases, intermediate levels of English proficiency. The course will reinforce and expand the student's cultural English as well as English language skills necessary for functioning in the American classroom. Activities building communicative skills in listening, speaking, reading and writing will be grade and age appropriate. Further work will offer support in the selected content areas of social studies, math, science and literature. Attention will be given to needed oral comprehension leading to facility with note taking. Basic writing skills, based on patterned sentences and rhetorical strategies, will be addressed. A scaffold approach to the introduction of English text will facilitate reading comprehension.

**Prerequisite: Language assessment and current teacher approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts or Elective)*

### EL III – H9020

The ELL section of EL III supports the English language learner in this required course introducing the high school student to the formal study of literature and intensive study of grammar. The course introduces the student to the study of literary genres: short story and the novel. Writing skills include sentence patterns, paragraph types, the writing of essay questions and answers, and introduction to documentation of sources and research. Language study addresses study skills, vocabulary, spelling, library skills, and oral presentations. Intensive grammar study is included. This course will be taught with appropriate ELL modifications including the use of visuals, graphic organizers, cassette tapes, videos, and oral readings. Grammar instruction may include topics particular to the needs of non-native English speakers. Alternative, as well as state directed assessments will be used as appropriate.

**Prerequisite: Language assessment and current teacher approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts or Elective)*

**EL IV – H9025**

EL IV offers ELL students instruction in reading comprehension skills. The class focuses on strong vocabulary development. Additionally, instruction in the recognition of story elements and text structures allows students to develop their skills in reading for meaning and critical thinking. The use of graphic organizers, both teacher-constructed and student-generated wh- questions, and class discussion increases student facility with English text. The student will be evaluated individually, and assignments are planned specifically for student needs. Specific reading skills to be taught include finding main ideas, recognizing supporting details, drawing conclusions, sequencing, inference, understanding vocabulary in context, and research activities through the use of short stories and novels.

**Prerequisite: Language assessment and current teacher approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts or Elective)*

## Family and Consumer Sciences

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Culinary Arts I Fashion Construction I and II Fashion Merchandising Foods I and II Interior Design	Baking and Pastry Child Development I Culinary Arts I Culinary Arts II Fashion Construction I and II Fashion Construction Studio Fashion Merchandising Foods I and II Interior Design	Baking and Pastry Child Development I Child Development II Culinary Arts I Culinary Arts II Fashion Construction I Fashion Construction II Fashion Construction Studio Fashion Merchandising Foods I, II Human Relations Independent Study in Family and Consumer Sciences International Foods Interior Design	Baking and Pastry Cadet Teaching Child Development I Child Development II Culinary Arts I Culinary Arts II Fashion Construction I Fashion Construction II Fashion Construction Studio Fashion Merchandising Foods I, II Human Relations Independent Study in Family and Consumer Sciences International Foods Interior Design

### **Baking and Pastry – H4513**

In Baking and Pastry, students will build upon the knowledge and skills acquired in Foods II to produce baking and pastry products based on current industry trends. Students will develop knowledge of ingredient functions, baking terminology, and a variety of baking and pastry techniques. This course is designed to appeal to the student who plans to pursue a career or who has a high interest level in culinary and/or baking and pastry arts.

**Prerequisite: Successful completion of Foods II OR Baking and Pastry teacher approval**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Cadet Teaching – Family and Consumer Science – H4640**

Cadet Teaching gives the student the opportunity to participate in many activities that will both familiarize him/her with the teaching process as well as strengthening his/her own family and consumer science skills. The student will help prepare lessons, tests, and lab experiences. The cadet teacher will also assist small groups of students.

**Prerequisite: Application approval**

*Open to: 12*

*Credit: ½ Unit – One Semester (elective)*

*Career Path: Human Services*

### **Child Development I – H4620**

This course prepares the student to work with children. Units of study include examining families and parenting styles, human reproduction, prenatal development, labor, birth, and delivery. Students will also learn about a child's growth and development during the newborn, infancy, and toddler stages. Careers in the child development field will be discussed throughout the semester. Three articulated college credits for any student through STLCC are available to Child Development I & II students who maintain an A or B average in both courses.

**Prerequisite: None**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Child Development II – H4630**

This second level course provides an exploration of advanced child development principles. Units of study include examining early childhood program types, developmental learning theories and the physical, social, emotional and intellectual needs of the preschool age child. Students will be able to plan developmentally appropriate activities, observe, and interact with preschoolers in the high school lab based early childhood learning center. Careers in the child development field will be discussed throughout the semester. Three articulated college credits for any student through STLCC are available to Child Development I & II students who maintain an A or B average in both courses.

**Prerequisite: Successful completion of Child Development I and Application Process**

*Open to: 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Culinary Arts I – H4521**

Culinary Arts I is also known as ProStart I. ProStart is a program created by the National Restaurant Association Educational Foundation. Students learn the management and culinary skills needed for home cooking and for a career in the foodservice industry. Educational strategies and technologies are utilized for classroom instruction. In addition, there is an emphasis on safety and sanitation, communication, management, and customer service. Upon completion of the safety and sanitation unit, students will have the opportunity to earn an industry recognized certificate, ServSafe. Students will learn and practice knife skills, cooking methods, and kitchen math through culinary lab experiences that may include salads, sandwiches, pizza, stocks, sauces, soups, and baking.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Practical Arts)*

*Career Path: Human Services*

### **Culinary Arts II – H4522**

Culinary Arts II is a continuation of Culinary Arts I. The industry emphasis for Culinary Arts II is marketing, costing, purchasing, nutrition and sustainability. The culinary focus is breakfast, dairy, fruits, vegetables, potatoes, pasta, meat, poultry, seafood, and desserts.

**Prerequisite: Successful completion of Culinary Arts I**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Practical Arts)*

*Career Path: Human Services*

### **Fashion Construction I – H4530**

Fashion Construction I introduces basic sewing construction skills. The student will experience project based learning by utilizing basic sewing concepts and equipment to construct simple sewing projects, understanding and threading the sewing machine, using a sewing pattern, demonstrating construction measuring techniques and proper clothing care procedures. Teaching methods include class discussion, teacher and student demonstrations, audio-visual materials, displays, and student projects. The student is required to provide his or her own sewing supplies, according to a teacher-provided list.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Fashion Construction II – H4540**

Fashion Construction II utilizes individualized instruction with an emphasis on more advanced fashion construction techniques. The student will experience project based learning by applying advanced skills to project and garment construction. The teacher will facilitate student-choice based on interest and level of expertise with the expectation of developing higher level sewing, design, and construction skills. The student is required to provide his or her own sewing supplies.

**Prerequisite: Successful completion of Fashion Construction I**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Fashion Construction Studio – H4550**

In Fashion Construction Studio, the student works independently, utilizing sewing skills, fashion knowledge and current industry trends to design a full look. The student will research current industry trends to create and construct a portfolio documenting individual projects from concept to completion. Students will discuss and integrate goals and career paths into the projects. The student is required to provide his or her sewing supplies.

**Prerequisite: Successful completion of Fashion Construction II**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Fashion Merchandising – H4555**

Fashion Merchandising teaches the concepts of entry-level business and fashion fundamentals. Topics include the business functions of the fashion industry, including basic fashion concepts and marketing terminology, careers in the clothing and textile industry, fashion cycles and the history of fashion. Students will also examine trending textiles, designers, the design process, and visual merchandising. There will be no clothing construction in this course.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit – ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Foods I – H4500**

Foods I provides an opportunity for students with little or no prior food preparation experience. Students can take this class on its own or as part of a four course sequence. Through academic and hands-on learning experiences, students will develop basic food preparation skills. Students examine various food preparation principles and techniques while making a variety of foods. The course emphasizes training in safety and sanitation, culinary techniques, and the importance of communication and teamwork.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Foods II – H4510**

Foods II builds on the food safety and sanitation skills learned in Foods I to focus on more advanced cooking techniques. Students will participate in hands-on labs and kitchen experiences. This course applies prior knowledge to plan and prepare a wide variety of dishes. While food preparation techniques are reinforced, individual creativity with food is stressed through many diverse experiences, including culinary competitions. This course is a prerequisite for Baking and Pastry or International Foods.

**Prerequisite: Successful completion of Foods I OR Foods II teacher approval**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Human Relations – H4610**

Human Relations is designed to help the student understand his or her role within the family and society. Units of study include family structures, relationships with parents, partners, and friends, dating issues, sexuality, love, preparation for marriage and methods for dealing with family crisis. The course includes presentations by professional guest speakers.

**Prerequisite: None**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **Independent Study in Family and Consumer Sciences – H4645**

Independent study in family and consumer sciences offers students the opportunity for specialized research not covered in a course offering, by an action project. Students work with a faculty advisor to develop a learning contract, which specifies the content and objectives of the study as well as the requirements and procedures for evaluation.

**Prerequisite: Successful completion of .5 credit in FACS, Application Process**

*Open to: 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

### **Interior Design – H4600**

Interior Design explores the various dimensions of selecting, planning, designing and furnishing the places we inhabit. Creative projects will showcase the student's own artistic expression whether his or her interest lies in design, architecture, engineering or graphic design. Elements and principles of design and color will be studied as they apply to interiors and housing. The student will evaluate and draw computer aided floor plans and create virtual design boards to illustrate the furnishings, finishes, and layout for unique project situations.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

*Career Path: Human Services*

### **International Foods – H4520**

International Foods is designed to give students a better understanding and appreciation of countries and cultures of the world through the study of traditional foods and meal habits of each. Each country's history, geography, climate, religion and ethnic make-up will be studied. Students will study food preparation skills and techniques unique to each country through kitchen laboratory experiences and gain an appreciation of cultural differences. Students interested in the study of cultures will benefit from this course.

**Prerequisite: Successful completion of Foods II or teacher approval**

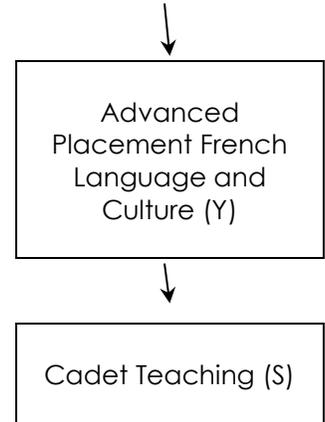
*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Practical Arts)*

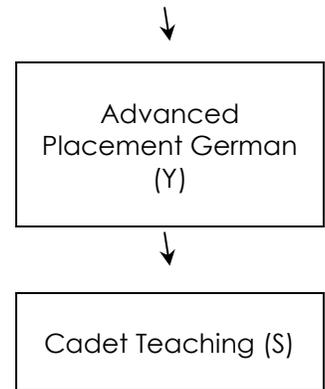
*Career Path: Human Services*

## Foreign Language

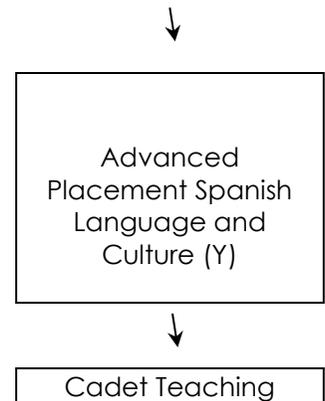
9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
French I (Y) →	French II (Y) →	French III (Y) →	French IV (Y)



German I (Y) →	German II (Y) →	German III (Y) →	German IV (Y)
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Spanish I (Y) →	Spanish II (Y) →	Spanish III (Y) →	Spanish IV (Y)
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**Legend:**  
**S = Semester Y = Year**

The Foreign Language Department offers the student instruction in French, German and Spanish. In addition to basic learning in listening, speaking, reading and writing skills, and the study of culture, the foreign language student may participate in educational experiences. These opportunities include earning college credits for their study in advanced foreign language classes and participation in cultural activities.

### **Advanced Placement French Language and Culture – H6045W**

Advanced Placement (AP) French Language and Culture will continue the study of the language, culture and literature of the francophone people. This is an active class that gives the student the opportunity to communicate on a basic level with French speakers on a variety of lifelong themes such as global challenges, beauty, families and communities, contemporary life, science and technology and personal and public identities. The student will learn how to formulate advanced grammatical sentences and improve writing, listening, speaking and reading skills. Advanced Placement credit offered.

***Prerequisite: Students who are successful in AP French Language and Culture enter the course at an intermediate level of proficiency, which includes the ability to communicate (including speaking, reading, and writing) in French about basic personal information, personal needs, and asking questions. Intermediate speakers can usually be understood by native speakers, particularly those used to dealing with non-native speakers. This level of proficiency is usually attained after 3-4 years of high-school level French language study.***

Open to: 12

Credit: 1 Unit – Two Semesters

**Weighted: 1.0**

### **Advanced Placement German – H6145W**

Instruction at this level is designed to provide the student with greater competency in all aspects critical to language learning. The student is exposed to a wide variety of media and practice in the target language. Literature includes classics, short stories, prose and modern media. The class will be presented largely in German, with the exception of lengthy grammar explanations. Vocabulary, reading, writing and listening skills will be strengthened through daily activities in which the student will be required to take part. The student will have the opportunity to earn advanced college credit by taking the AP German exam in May. For this reason, the program will be challenging. This will ensure that the student is performing competitively with other high school students across the United States and other countries around the world. Dual Credit and Advanced Placement credit offered.

***Prerequisite: Students who are successful in AP German enter the course at an intermediate level of proficiency, which includes the ability to communicate (including speaking, reading, and writing) in German about basic personal information, personal needs, and asking questions. Intermediate speakers can usually be understood by native speakers, particularly those used to dealing with non-native speakers. This level of proficiency is usually attained after 3-4 years of high-school level German language study.***

Open to: 11, 12

Credit: 1 Unit – Two Semesters

**Weighted: 1.0**

### **Advanced Placement Spanish Language and Culture – H6251W**

Advanced Placement Spanish Language and Culture will continue the study of the language, culture and literature. This is an active class that gives the student the opportunity to communicate on a basic level with Spanish speakers on a variety of lifelong themes such as global challenges, beauty, families and communities, contemporary life, science and technology, and personal and public identities. The student will learn how to formulate advanced grammatical sentences and improve writing, listening, speaking and reading skills.

**Prerequisite:** *Students who are successful in AP Spanish Language and Culture enter the course at an intermediate level of proficiency, which includes the ability to communicate (including speaking, reading, and writing) in Spanish about basic personal information, personal needs, and asking questions. Intermediate speakers can usually be understood by native speakers, particularly those used to dealing with non-native speakers. This level of proficiency is usually attained after 3-4 years of high-school level Spanish language study.*

*Open to: 12*

*Credit 1 Unit – Two Semesters*

**Weighted: 1.0**

### **Cadet Teaching – Foreign Language – H6260**

Cadet Teaching gives the student the opportunity to participate in many activities that both familiarize him/her with the teaching process, as well as strengthen his/her own foreign language skills. The student will help prepare lessons, tests, and classroom activities. The cadet teacher will also assist small groups of students.

**Prerequisite:** *Application approval*

*Open to: 12*

*Credit: ½ Unit – One Semester (elective)*

### **French I – H6010**

The student learns to communicate in basic spoken and written French using high-frequency vocabulary in everyday situations. Each lesson topic features an interest of French-speaking young people in the world today. The student experiences French culture through videos, role-playing and music.

**Prerequisite:** *English Language Arts with a “C” or higher and current English teacher approval*

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

### **French II – H6020**

The student actively engages in speaking, listening, reading and writing activities using more advanced grammar and vocabulary in a variety of common situations within a cultural setting. The student becomes sensitive to cultural differences through videos, role-playing and reading material from and about the French-speaking world.

**Prerequisite:** *French I with a “C” or higher*

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

### **French III – H6030W**

The student expands upon the communicative skills acquired in French I and II. They strengthen reading skills and learn to write compositions. The student becomes familiar with French speakers who have contributed to history, science and the arts. They continue to learn about the regions of France and other francophone areas of the world. This class is conducted in French. Dual Credit offered. **Prerequisite:**

**French II with a “C” or higher**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

**French IV – H6040W**

The student increases their knowledge of vocabulary and grammatical structures and through the study of the French civilization and culture. The student reads, discusses and writes about historical events, literary concepts and art. The class is conducted in French. Dual Credit is offered.

**Prerequisite:** French III with a “C” or higher

Open to: 11, 12

Credit: 1 Unit – Two Semesters

**Weighted: 0.75**

**German I – H6110**

The German I course will introduce the student to basic vocabulary and grammar, rudimentary communication with learned phrases and simple questions and answers in German. The student will acquire an understanding of the customs and traditions of German-speaking countries.

**Prerequisite:** English Language Arts with a “C” or higher and current English teacher approval

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters

**German II – H6120**

The German II course will increase the student's abilities in understanding, speaking, reading and writing the German language. The student is encouraged to use the German they have learned on a regular basis. Topics include food and dining, sports and free-time activities, clothing, jobs and their future. The student learns more about German culture through video, music and singing.

**Prerequisite:** German I with a “C” or higher

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters

**German III – H6130W**

The student expands their abilities in basic language skills already acquired through further study of German grammar and vocabulary. A number of speaking and listening activities helps the student gain confidence in their use of these communication skills. A variety of authentic, up-to-date media is presented to the student to help them convey their thoughts in the German language about various current community and world situations. This class is conducted in German. Dual Credit offered.

**Prerequisite:** German II with a “C” or higher

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters

**Weighted: 0.75**

**German IV – H6140W**

Instruction at this level is designed to provide the student with greater facility in all language skills. The literature is selected from a wide variety of writers from early to classics to contemporary, including shorter prose, poetry and modern media. Some literature and background information will be presented in video format. Time will be given to strengthen and hone grammar skills and increasing vocabulary. Active student participation is required. This class is conducted in German. Dual Credit offered.

**Prerequisite:** German III with a “C” or higher

Open to: 11, 12

Credit: 1 Unit – Two Semesters

**Weighted: 0.75**

**Spanish I – H6210**

Spanish I is an introduction to the Spanish language. The student develops the skills of understanding, speaking, reading and writing in Spanish, learning basic vocabulary and the fundamental structure of grammar. The student engages in a variety of activities which introduce them to the culture and customs of many Spanish-speaking countries. The diversity of Hispanic culture is also experienced through videos and music. Heavy emphasis is placed on oral communication.

**Prerequisite: English Language Arts with a “C” or higher and current English teacher approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

**Spanish II – H6220**

In Spanish II, the student expands their vocabulary and builds on grammar skills previously acquired. Communication in Spanish is stressed with added emphasis on reading, writing and speaking skills. The student experiences a variety of activities including games, class presentations and creative writing activities. Hispanic culture is presented through music and videos.

**Prerequisite: Spanish I with a “C” or higher**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

**Spanish III – H6230W**

In Spanish III, basic grammar is reviewed and more advanced structures of the language are studied. Vocabulary is greatly expanded with practical experiences. The student is required to communicate in the Spanish language in order to gain fluency. Readings in literature are discussed orally. This class is conducted in Spanish. Dual Credit offered.

**Prerequisite: Spanish II with a “C” or higher**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

**Spanish IV – H6240W**

Spanish IV is designed to give the student increased proficiency in the skills of listening, speaking, reading and writing in Spanish. It includes a complete review of all structural materials previously learned. The main emphasis is placed on the study of Spanish/Latin American literature. This class is conducted in Spanish. Dual Credit offered.

**Prerequisite: Spanish III with a “C” or higher**

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

## Mathematics \*

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Honors Geometry (Y)	Algebra II (Y) Honors Algebra II (Y)	College Algebra (Y) Pre-Calculus (Y) Advanced Placement Statistics (Y)	Probability and Statistics (Y) Advanced Placement Calculus (Y) Advanced Placement Statistics (Y)
Geometry (Y) Geometry in Construction-Geometry (Y)	Algebra II (Y) Honors Algebra II	College Algebra (Y) Pre-Calculus (Y)	Probability and Statistics (Y) Advanced Placement Statistics (Y) Advanced Placement Calculus (Y)
Algebra I (Y) Algebra IA/ Algebra IB (Y) AMPED Algebra I (Y)	Geometry (Y) Geometry in Construction-Geometry (Y) Honors Geometry (Y)	Algebra II (Y) Honors Algebra II (Y)	College Algebra (Y) Probability and Statistics (Y) Pre-Calculus (Y) Advanced Placement Statistics College Prep Mathematics (Y)
Pre-Algebra (Y)	Pre-Geometry (Y) Algebra IA/Algebra IB (Y) Algebra I (Y) AMPED Algebra I (Y)	Algebra IA/ Algebra IB (Y) Geometry (Y) Geometry in Construction-Geometry (Y)	Algebra II (Y) Geometry (Y) Geometry in Construction-Geometry (Y)

**Legend:**  
**S = Semester**  
**Y = Year**

\* The Math Department of the Mehlville School District realizes that each student learns in his or her own, unique way. Therefore, a crossover curriculum has been established that allows a student to move from one level to another. Placement based on the student's educational needs will be determined after consultation and consensus by interested parties (the student, parents, teacher, and counselor).

### **Advanced Placement Calculus – H2411W**

This course includes the study and application of continuity, limits, derivatives, the definite integral, techniques of integration and plane analytical geometry. Each student is required to have a scientific calculator (TI-84+ recommended). Dual Credit and Advanced Placement credit offered. See pages 11 and 12 for more information about Dual Credit and Advanced Placement fees.

**Prerequisite: Successful completion of Pre-Calculus is required. Students should be proficient in applying algebraic operations to manipulate algebraic and trigonometric expressions, solving algebraic and trigonometric equations, analyzing algebraic and trigonometric functions, and applying geometric relationships to solve problems.**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (Math)

**Weighted: 1.0**

### **Advanced Placement Statistics – H2365W**

This course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four main themes for the course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. Each student is required to have a scientific calculator (TI-84+ recommended). Advanced Placement credit offered.

**Prerequisite: Students who are successful in AP Statistics must be strong, independent readers and organized writers. Students must be motivated and able to complete college-level course work. Students must have in-depth understanding of Algebra II content including Radical Expressions, Linear Functions, and Logarithmic functions.**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (Math)

**Weighted 1.0**

### **Algebra I – H2100**

This course will develop logical mathematical thought through the use of variables, algebraic properties and their connection to real world situations. The course will primarily explore solving and graphing equations and inequalities of functions. Algebra skills will be developed to support these investigations. Patterns, probabilities, statistics, number sense and relationships to real world situations will also be incorporated throughout the course. Additional perspectives and activities will be investigated to gain understanding of the topics in Algebra I. Before taking the course the student should have mastered integer operations, rational number operations, order of operations and solving one-step and two-step equations on one variable.

**Prerequisite: None**

Open to: 9-10, 11, 12

Credit: 1 Unit – Two Semesters (Math)

### **Algebra IA – 2090 /Algebra IB – H2095**

This course will develop logical mathematical thought through the use of variables, algebraic properties and their connection to real world situations with additional time built in to ensure mastery. The course will primarily explore solving and graphing equations and inequalities of functions. Algebra skills will be developed to support these investigations. Patterns, probabilities, statistics, number sense and relationships to real world situations will also be incorporated throughout the course. Additional perspectives and activities will be investigated to gain understanding of the topics in Algebra I. Before taking the course the student should have mastered integer operations, rational number operations, order of operations and solving one-step and two-step equations on one variable.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Math)*

*1 Unit – Two Semesters (Elective)*

*The student must be enrolled in both Algebra IA/Algebra IB concurrently and will receive the same grade for both Algebra IA/Algebra IB. The successful completion of this course will give the student one unit of math credit towards his/her state required three units needed for high school graduation.*

### **Algebra II – H2295**

In this course, the Algebra I concepts are extended and enriched. Topics studied include graphing, analyzing and interpreting functions including polynomial, rational, and exponential functions; systems of linear equations and inequalities; exponents, matrices and radicals. Computer software may be used when appropriate to enhance instruction. Calculators will be used when appropriate.

**Prerequisite: Any Algebra I Course**

*Open to: 10, 11, 12 (Required)*

*Credit: 1 Unit – Two Semesters (Math)*

### **AMPED Algebra I – H2801**

This course is one part of the combined AMPED (Algebra in Manufacturing, Production, Entrepreneurship and Design) Business Processes course. The course engages the student in extending the mathematics they learned in their earlier grades in an authentic business setting. The student will explore and apply functions, compare their key characteristics, and translate between graphical, numerical, and symbolic representations of them. They will create and solve equations and inequalities, systems of equations involving linear and quadratic expressions, extend the laws of exponents to rational exponents and compare/contrast linear and exponential functions. The student will use regression techniques to describe linear relationships between quantities and use technology as an instructional tool throughout the course as they explore and make sense of problems in a real-world context. The contextual learning experience combines all Algebra I standards and Business Entrepreneurship standards through relevant and interactive, career-centered projects. The student will be enrolled in two courses and receive both an Algebra I and a Practical Art credit.

**Prerequisite: Current Teacher Approval – Concurrent enrollment in AMPED Business Processes**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Math)*

### **Cadet Teaching – Mathematics – H2420**

This course gives the student the opportunity to participate in many activities that will both familiarize them with the teaching process as well as strengthen their own math skills. The student will develop the leadership and organizational skills needed in any working environment.

**Prerequisite: Application approval**

*Open to: 12*

*Credit: 1 Unit – Two Semesters (elective)*

### **College Algebra – H2400W**

This course brings together and organizes the arithmetic, algebraic, and geometric concepts studied throughout the student's educational career. Emphasis will be placed on graphing different types of functions and conics.

**Prerequisite: Algebra II and Geometry**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (Math)

**Weighted: 0.75**

### **College Prep Mathematics – H2382**

This algebra course is designed as a bridge between Algebra II/Geometry and College Algebra. It is for the student who will continue to College Algebra or is college-bound. It includes new topics and applications of the Algebra II course. Topics include functions, inverses, matrices, trigonometry, quadratics, radicals and rational expressions, exponents, and logarithms. Calculators will be used when appropriate. This course is a developmental college credit course through St. Louis Community College. The student who earns a grade of "C" or higher in this course will be eligible to earn 3 hours of credit for MTH 140 at St. Louis Community College, allowing him/her to move directly into PreCalc Algebra (Formerly College Algebra). The student taking this course will not receive any additional increase to their GPA for this course.

**Prerequisite: Any Algebra II and Geometry**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (Math)

### **Geometry – H2195**

The Geometry student will think critically to analyze situations involving geometric figures. Analyzing the situations will require perseverance in order to discover these geometric relationships and apply logical reasoning to draw valid conclusions. The student will evaluate the reasonableness of their findings and produce logical arguments to support their conclusion. Calculators will be used when appropriate.

**Prerequisite: Any Algebra I course**

Open to: 9,10, 11, 12

Credit: 1 Unit – Two Semesters (Math)

### **Geometry in Construction–Geometry – H2230**

NOTE: The student must also be concurrently enrolled in Geometry in Construction-Construction course. This course is one part of the combined Geometry in Construction course. The student is engaged in exploring complex geometric situations and deepening their understanding of geometric relationships in the context of a construction project. They will prove theorems and solve problems about triangles, quadrilaterals, and other polygons; establish triangle congruence criteria based on analyses of rigid motions and formal constructions; apply similarity in right triangles to understand right triangle trigonometry; and use a rectangular coordinate system to verify geometric relationships. They will extend their knowledge of two-dimensional and three-dimensional objects to include informal explanations of circumference, area and volume formulas and consider the shapes of cross-sections. The student will prove basic theorems about circles, and create and graph the equation of a circle. They will use the languages of set theory to expand their ability to compute and interpret theoretical and experimental probabilities. This contextual learning experience allows the student to see a variety of geometry concepts used in a real-world setting. The student will be enrolled in two courses and receive both a Geometry and a practical arts credit.

**Prerequisite: Any Algebra I Course; Concurrent enrollment in Geometry in Construction-Construction**

Open to: 9,10, 11, 12

Credit: 1 Unit

### **Honors Algebra II – H2315**

This honors level course is designed to clarify and extend algebraic procedures. Topics studied include graphing, analyzing and interpreting functions including polynomial, rational, radical, logarithmic and exponential; systems of linear equations and inequalities, exponents, matrices, and probability and statistics. The student will have the opportunity to pursue Algebra II topics more deeply and extend their thinking through more rigorous and collaborative mathematics concepts and projects. Graphing calculators may be used when appropriate to enhance instruction.

**Prerequisite: Any Algebra I Course**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Math)*

### **Honors Geometry – H2220**

The Honors geometry student will think critically to analyze situations involving geometric figures. Analyzing the situations will require perseverance in order to discover these geometric relationships and apply logical reasoning to draw valid conclusions. The student will evaluate the reasonableness of their findings and produce logical arguments to support their conclusion. The student will also design their own proofs and justify their rationale. The student will have the opportunity to pursue Geometry topics more deeply and extend their thinking through more rigorous mathematics concepts and projects. Calculators will be used when appropriate.

**Prerequisite: Any Algebra I Course**

*Open to: 9,10, 11, 12*

*Credit: 1 Unit – Two Semesters (Math)*

### **Pre-Algebra – H2000**

This course gives the student the opportunity to strengthen skills using the basic operations of addition, subtraction, multiplication, and division of whole numbers, decimals, fractions, and real numbers. Students will build their knowledge of measurement, percent, operations with integers, and graphing. A focus on developing problem-solving skills and number sense to build a foundation for Algebra I.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Math)*

### **Pre-Calculus – H2405W**

This course brings together and organizes the arithmetic, algebraic, geometric and trigonometric concepts studied throughout the student's educational career. Emphasis will be placed on graphs of functions, solving equations and their applications, and trigonometric identities.

**Prerequisite: Algebra II and Geometry**

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters (Math)*

**Weighted: 0.75**

### **Pre-Geometry – H2010**

Geometry is the study of logical reasoning, which is used to draw conclusions dealing with geometric shapes and their inter-relationships. This course will apply arithmetic practices to the study of basic geometric concepts, while preparing the student to use geometric calculations in their everyday life. Note: Pre-Geometry may not be taken after successful completion of Algebra IA/Algebra IB. Calculators will be used when appropriate.

**Prerequisite: Pre-Algebra**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Math)*

**Probability and Statistics – H2350**

This course will build on the foundation of statistics and probability from Algebra courses. Throughout the year, the student will strengthen the use of descriptive statistics and begin building understanding and application of inferential branches of statistics and applications of probability. The student will analyze univariate and bivariate data by using measures of central tendency, measures of variation, linear regression, and the relationship to the normal distribution. The student will make inferences about one and two sample data using confidence intervals and hypothesis tests. The student will study probability, probability distributions, combinations, and permutations, odds, and mathematical expectation. Each student is required to have a scientific calculator (TI-84 recommended).

**Prerequisite: Concurrent or successful completion of Algebra II**

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters (Math)*

## Music

### Music Appreciation

9th Grade	10th Grade	11th Grade	12th Grade
Music Appreciation MHS(S/Y)	Music Appreciation MHS(S/Y)	Music Appreciation MHS(S/Y)	Music Appreciation MHS(S/Y)
Music Appreciation OHS (S)	Music Appreciation OHS (S)	Music Appreciation OHS (S)	Music Appreciation OHS (S)

### Ensembles

Treble Chorus (Y)(S)	Treble Chorus (Y)(S)	Treble Chorus (Y)(S)	Treble Chorus (Y)(S)
Tenor/Bass Chorus (Y)(S)	Tenor/Bass Chorus (Y)(S)	Tenor/Bass Chorus (Y)(S)	Tenor/Bass Chorus (Y)(S)
Concert Chorale (MHS only) (Y)			
Concert Choir Treble (Y)	Concert Choir Treble (Y)	Concert Choir Treble (Y)	Concert Choir Treble (Y)
Intermediate Tenor/Bass Choir (Y)	Intermediate Tenor/Bass Choir (Y)	Intermediate Tenor/Bass Choir (Y)	Intermediate Tenor/Bass Choir (Y)
Treble Concert Choir (Y)	Treble Concert Choir (Y)	Treble Concert Choir (Y)	Treble Concert Choir (Y)
Concert Choir Mixed (Y)	Concert Choir Mixed (Y)	Concert Choir Mixed (Y)	Concert Choir Mixed (Y)
Madrigal/Chamber Choir (Y)	Madrigal/Chamber Choir (Y)	Madrigal/Chamber Choir (Y)	Madrigal/Chamber Choir (Y)

### Musical Theatre

9th Grade	10th Grade	11th Grade	12th Grade
		The Stage (S)	The Stage (S)
		Musical Theatre (S)	Musical Theatre (S)

**AP Music Theory**

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
		AP Music Theory (Y)	AP Music Theory (Y)

**Advanced Studies in Music**

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
			Cadet Teaching (Y) Independent Study (Y) (S) MyPath (S)(Y)

**Instrumental Music**

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Beginning Band (Y) <b>OR</b> Concert Band (Y) <b>OR</b> Honor Band (Y)  Jazz Band (Y)  String Orchestra (Y)	Beginning Band (Y) <b>OR</b> Concert Band (Y) <b>OR</b> Honor Band (Y)  Jazz Band (Y)  String Orchestra (Y)	Beginning Band (Y) <b>OR</b> Concert Band (Y) <b>OR</b> Honor Band (Y)  Jazz Band (Y)  String Orchestra (Y)	Beginning Band (Y) <b>OR</b> Concert Band (Y) <b>OR</b> Honor Band (Y)  Jazz Band (Y)  String Orchestra (Y)  Independent Study (Y)

**Legend:**

**S = Semester**

**Y = Year**

### **Advanced Placement Music Theory – H7208W**

The ultimate goal of an Advanced Placement Music Theory course is to develop a student's ability to recognize, understand and describe the basic materials and the processes of music that are heard and presented in a score. This course is designed to develop musical skills that will lead to a thorough understanding of musical composition and theory. This course is designed for the college-bound music student or any student who has a desire to increase their technical knowledge of music and an interest in composing original musical works.

**Prerequisite: Students who are successful in AP Music Theory enter the course with the ability to read musical notation (basic note reading and rhythmic durations) and possess basic voice or instrument performance skills. Students must have successfully completed a previous high school musical performance course prior to AP Music Theory.**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Fine Arts)*

**Weighted: 1.0**

### **Beginning Band – H7300**

Beginning Band is for the student who wishes to learn to play an instrument with an aesthetically pleasing sound. No previous musical experience is necessary. This class addresses the gradual development of technical skills and good care of the band instrument, which eventually leads to the performance of simple band literature. Through the literature presented, the student will develop a basic knowledge of historical band styles.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Fine Arts)*

### **Cadet Teaching – Music – H7132**

This course gives the student the opportunity to participate in many activities that will both familiarize them with the teaching process as well as strengthen the musical skills they already possess. The student will develop the leadership and organizational skills needed in any professional working environment

**Prerequisite: Application Approval**

*Open to: 12*

*Credit: 1 Unit – Two Semesters (elective)*

### **Chamber/Madrigal Choir – H7250**

Chamber/Madrigal Singers is an auditioned performing ensemble that provides an aesthetic choral experience for the student who is interested in studying choral literature specifically written for mixed voices. Audition placement based on established criteria. The student studies advanced vocal technique, music literacy, and practices performance skills with an emphasis on small ensemble music from various historical periods. Through observing and listening to others, the student will develop their analytical and critical thinking skills. This choir participates in concerts, choral festivals, competitions, and performances in the community for civic organizations. There is a uniform requirement for the members of this ensemble.

**Prerequisite: Audition placement based on established criteria**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Fine Arts)*

### **Concert Band – H7310**

Concert Band is for the student who wishes to continue their fundamental understanding of how to play an instrument with an aesthetically pleasing sound. Previous experience is recommended. This class addresses the further development of technical skills and good care of the band instrument, which eventually leads to the performance of basic to intermediate instrumental literature. Through the literature presented, the student will cultivate a foundational knowledge of historical, social, and cultural musical styles.

**Prerequisite: Middle School Band Enrollment or Private Lesson Instruction**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Fine Arts)*

**Concert Choir Mixed – H7240**

Concert Choir Mixed is an auditioned performing ensemble that provides an aesthetic choral experience for the student who is interested in studying choral literature specifically written for mixed voices. Audition placement based on established criteria. The student studies advanced vocal technique, music literacy, and practices performance skills with an emphasis on large ensemble music from various historical periods. Through observing and listening to others, the student will develop their analytical and critical thinking skills. This choir participates in concerts, choral festivals, competitions, and performances in the community for civic organizations. There is a uniform requirement for the members of this ensemble.

**Prerequisite: Audition placement based on established criteria**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Fine Arts)*

**Concert Choir Treble –H7230**

Concert Choir Treble is an auditioned performing ensemble that provides an aesthetic choral experience for the student who is interested in studying choral literature specifically written for treble voices. Audition placement based on established criteria. The student is introduced to advanced vocal technique, unison to 3 part treble choral pieces, music literacy, and practices performance skills with an emphasis on Treble ensemble music from various historical periods. Through observing and listening to others, the student will develop their analytical and critical thinking skills. This choir participates in concerts, choral festivals, competitions, and performances in the community for civic organizations. There is a uniform requirement for the members of this ensemble.

**Prerequisite: Audition placement based on established criteria**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Fine Arts)*

**Concert Chorale – H7235 (MHS only)**

Concert Chorale is a non-auditioned ensemble that provides an aesthetic choral experience for the student who is interested in studying choral literature. The student studies basic vocal technique, beginning to intermediate choral literature, basic music literacy, and practices performance skills using music from various historical periods. Through observing and listening to others, the student will develop their analytical and critical thinking skills. This choir participates in various performance opportunities. There is a uniform requirement.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Fine Arts)*

**Honor Band –H7320**

The Honor Band continues the development of technique and knowledge learned in previous instrumental music courses. This class is intended to provide the student with advanced instrumental training in technical skills, stylistic interpretation and artistic performance. Through the performance of musical literature, the student will learn wind literature history, aesthetics, technical skills, and critical analysis. It is the school's performance band that plays at various functions within the district, community, and venues outside of the state throughout the year.

**Prerequisite: Audition placement based on established criteria**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Fine Arts)*

### **Independent Study – Music – H7350**

This course is designed for the advanced student possessing a high degree of independence and responsibility. Selected projects and/or programs must be worked out by the student, instructor and department chairperson prior to approval, followed with approval by chairperson and principal.

**Prerequisite: Permission of instructor**

Open to: 12

Credit: 1 Unit – Two Semesters (Fine Arts)

### **Intermediate Tenor/Bass Choir – H7205**

Intermediate Tenor/Bass Choir is an auditioned performing ensemble that provides an aesthetic choral experience for the student who is interested in studying choral literature specifically written for Tenor/Bass voices. Audition placement based on established criteria. The student studies intermediate vocal technique, unison to 3 part Tenor/Bass choral pieces, music literacy, and practices performance skills with an emphasis on Treble ensemble music from various historical periods. Through observing and listening to others, the student will develop their analytical and critical thinking skills. This choir participates in concerts, choral festivals, competitions, and performances in the community for civic organizations. There is a uniform requirement for the members of this ensemble.

**Prerequisite: Audition placement based on established criteria**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters (Fine Arts)

### **Jazz Band – H7330**

The Jazz Band continues the development of technique and knowledge learned in previous instrumental music courses. This class is intended to provide the student with advanced instrumental training in technical skills, stylistic interpretation, musical improvisation, and artistic performance. Through the performance of musical literature, the student will learn wind literature history, aesthetics, technical skills, and critical analysis. It is one of the school's performance bands that plays at various functions throughout the year.

**Prerequisite: Audition placement based on established criteria and/or enrollment in another musical performance class that must be done during the same semester that this class is taken**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters (Fine Arts)

### **Music Appreciation – H7200**

This course is a nonperformance-oriented class, designated to provide the student with information and experiences that will deepen their understanding and appreciation of all types of music. The fundamentals, elements, history, aesthetics, and critical analysis of music will be presented and discussed through the mediums of recordings, videos, films, class activities, and lectures.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters (Fine Arts) - MHS

.5 Unit – One Semester (Fine Arts) - OHS

### **Musical Theatre – H7190**

Musical Theatre class is an exploration of American Musical Theatre. Students will study the work of the actor/singer/dancer and use their gained knowledge to develop as performers. Students will prepare and present as soloists as well as members of small groups and larger ensembles. Students will prepare material for class presentation and critique. There will also be a focus on the audition process as well as musical theatre history and repertoire.

**Prerequisite: Advanced Acting or Auditioned Choir. Placement based on established criteria.**

Open to: 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **String Orchestra – H7340**

High School String Orchestra classes work to develop musicians who will be able to perform in ensembles beyond the school setting. This course will continue to emphasize learning to play with steady pulse, note reading, rhythm reading, bowing techniques, shifting, expressive musical terms, intonation, and learning to play in an ensemble. Emphasis will continue to reinforce the fundamentals of good posture and playing skills.

**Prerequisite: Student must be able to read music on a stringed instrument (violin/viola/cello/bass) and obtain instructor approval prior to enrolling in the class**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters (Fine Arts)

### **Tenor/Bass Chorus – H7210S (MHS Only); H7210 (OHS Only)**

Tenor/Bass Chorus is a non-auditioned ensemble that provides an aesthetic choral experience for the student who is interested in studying choral literature. The student studies basic vocal technique, beginning to intermediate choral literature, basic music literacy, and practices performance skills using music from various historical periods. Through observing and listening to others, the student will develop their analytical and critical thinking skills. This choir participates in various performance opportunities. There is no uniform requirement.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: .5 or 1 Unit – Two Semesters (Fine Arts)

### **Treble Chorus – H7220S (MHS Only); H7220 (OHS Only)**

Treble Chorus is a non-auditioned ensemble that provides an aesthetic choral experience for the student who is interested in studying choral literature. The student studies basic vocal technique, beginning to intermediate choral literature, basic music literacy, and practices performance skills using music from various historical periods. Through observing and listening to others, the student will develop their analytical and critical thinking skills. This choir participates in various performance opportunities. There is no uniform requirement.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: .5 or 1 Unit – Two Semesters (Fine Arts)

### **Treble Chamber Choir – H7260**

Treble Chamber Choir is an auditioned performing ensemble that provides an aesthetic choral experience for the student who is interested in studying choral literature specifically written for treble voices. Audition placement based on established criteria. The student studies intermediate vocal technique, 2-4 part treble choral music, music literacy, and practices performance skills with an emphasis on Treble ensemble music from various historical periods. Through observing and listening to others, the student will develop their analytical and critical thinking skills. This choir participates in concerts, choral festivals, competitions, and performances in the community for civic organizations. There is a uniform requirement for the members of this ensemble.

**Prerequisite: Audition placement based on established criteria**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters (Fine Arts)

## Physical Education and Health

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
9 <sup>th</sup> Grade Physical Education (S)  Health and Wellness (S)	Adventure and Outdoor Pursuits (S)  Health and Wellness (S)  Basic Aquatics (S)  Advanced Aquatics (S)  Athletic Conditioning (S)  Independent Study Physical Education (S)  Lifetime Sports and Fitness (S)  Path to 5K/10K (S)  Personal Fitness for Life (S)  Sports Medicine and Athletic Training (S)  Strength and Conditioning for Boys (S)  Strength and Conditioning for Girls (S)  Team Sports/Fitness (S)	Adventure and Outdoor Pursuits (S)  Health and Wellness (S)  Basic Aquatics (S)  Advanced Aquatics (S)  Athletic Conditioning (S)  Independent Study Physical Education (S)  Lifetime Sports and Fitness (S)  Path to 5K/10K (S)  Personal Fitness for Life (S)  Sports Medicine and Athletic Training (S)  Strength and Conditioning for Boys (S)  Strength and Conditioning for Girls (S)  Team Sports/Fitness (S)	Adventure and Outdoor Pursuits (S)  Health and Wellness (S)  Basic Aquatics (S)  Advanced Aquatics (S)  Athletic Conditioning (S)  Cadet Teaching (S)  Independent Study Physical Education (S)  Lifetime Sports and Fitness (S)  Path to 5K/10K (S)  Personal Fitness for Life (S)  Sports Medicine and Athletic Training (S)  Strength and Conditioning for Boys (S)  Strength and Conditioning for Girls (S)  Team Sports/Fitness (S)
<b>Legend:</b> <b>S = Semester</b> <b>Y = Year</b>			

### **9<sup>th</sup> Grade Physical Education – H8003**

This course is for incoming students into the high school. Students will learn concepts and principles of physical fitness, sports, and wellness through lessons and accompanying activities that will prepare them for life-long personal fitness and future physical education courses. Students will participate in activities designed to increase their likelihood of exercising in the future. Students will understand the benefits that regular exercise can provide for a person's mental, physical, and social health.

**Prerequisite: None**

Open to: 9

Credit: ½ Unit – One Semester (PE)

### **Advanced Aquatics – H8065**

Advanced Aquatics is designed for students who have already mastered basic aquatic skills to improve individual fitness through knowledge and performance of aquatic skills. Students in Advanced will learn butterfly and breaststroke, as well as focusing on advanced water safety and rescue skills. Emphasis will be on safety and skills to promote swimming as a lifetime recreational pursuit. Students in Advanced Aquatics may have the opportunity to earn lifeguard certification.

**Prerequisite: Successful completion of Beginning Aquatics or teacher approval**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (PE)

### **Adventure and Outdoor Pursuits – H8056**

This course is designed for students who like to be active in the nature setting, and enjoy being part of the great outdoors, such as hiking, paddling, fishing, and outdoor survival. Students will learn how to maintain a healthy lifestyle while engaging in different outdoor activities ranging from the classroom to off campus field trips. Students will have the option to purchase a Missouri Hunting and Fishing license.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (PE)

### **Athletic Conditioning – H8037**

This high-intensity course is designed for the student who wants to develop an advanced level of fitness and training knowledge. The relationship between proper nutrition and advanced performance will be emphasized. Dynamic movements, advanced lifting techniques, and cutting-edge agility training are the focus of this course.

**Prerequisite: Application process**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (PE)

### **Basic Aquatics – H8060**

Basic Aquatics is designed to address the needs of those students identified as non-swimmers or beginning level swimmers. Emphasis will be on safety and basic swimming skills to promote swimming as a lifetime recreational pursuit.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (PE)

### **Cadet Teaching – Physical Education – H8045**

Cadet Teaching gives the student the opportunity to participate in many activities that will both familiarize him/her with the teaching process as well as strengthening his/her own Physical Education skills. The student will help prepare lessons, tests and activity experiences. The cadet teacher will also assist small groups of students.

**Prerequisite: Application Approval**

Open to: 12

Credit: ½ Unit – One Semester (elective)

### **Health and Wellness – H8050**

The high school Health curriculum is designed to provide students with the knowledge and skills to make decisions which will affect their health and well-being. Topics covered in the course include Nutrition Principles and Practices, Life Management and Risk Avoidance Skills, Disease Prevention, First Aid and CPR, Substance Abuse, Personal Fitness and Wellness, and Sexual Health.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester

### **Independent Study-Physical Education – H8075**

This course is designed for the fitness enthusiast who desires to further expand their knowledge beyond the currently offered curriculum. Students can expect to develop individualized Physical Education goals and execute the necessary plans to achieve them.

**Prerequisite: Successful completion of .5 credit of PE and application process**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (PE)

### **Lifetime Sports and Fitness – H8030**

The Lifetime Sports and Fitness class will provide emphasis on recreational and individual sports which have carry-over value for leisure later in life. Students will also participate in daily fitness activities as well as fitness testing.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (PE)

### **Path to 5K/10K – H8070**

Students from a beginning level of fitness to seasoned runners will train to complete a 5K (3.1 miles) or longer race based on a personal goal by the end of the semester.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (PE)

### **Personal Fitness for Life – H8040**

This course is designed to improve fitness levels in a noncompetitive environment while participating in a variety of fitness activities. Students develop and participate in a fitness program designed to reach their individual fitness goals.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (PE)

### **Sports Medicine and Athletic Training – H8055**

Sports Medicine and Athletic Training is designed for the student interested in a career in sports medicine and related fields. Students will evaluate sports injuries, prevention, treatment, and rehabilitation; learn first aid, CPR, and emergency procedures; identify medical terminology. Students who wish to become CPR certified must pay the CPR certification fee. The course includes a \$5 fee to cover materials and supplies.

**Prerequisite: Successful completion of Health**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (elective)

### **Strength & Conditioning (Boys) – H8013**

This course is designed for the student who is interested in learning the fundamentals of strength training and conditioning. Weight training, cardiovascular fitness, and safety are the areas of emphasis.

**Prerequisite: None**

Open to: 10, 11, 12

*Credit: ½ Unit – One Semester (PE)*

**Strength and Conditioning (Girls) – H8015**

This course is designed for the student who is interested in learning the fundamentals of strength training and conditioning. Weight training, cardiovascular fitness, and safety are the areas of emphasis.

**Prerequisite: None**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (PE)*

**Team Sports/Fitness – H8023**

Students in Team Sports develop game skills and physical fitness through game play. They work and communicate collaboratively in both competitive and noncompetitive situations. The goal of Team Sports is to develop fitness in a fun, engaging, athletic environment.

**Prerequisite: None**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (PE)*

## Science

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Earth/Environmental Science Concepts (Y)	Biology Concepts (Y) Biology (Y)	Physical Science Concepts (Y) Physical Science (Y)	Physical Science (Y) Physics (Y) Geology (S) Astronomy (S) Meteorology (S)
Earth/Environmental Science (Y)	Biology (Y) Honors Biology (Y)	Physical Science (Y) Chemistry (Y) Honors Chemistry (Y) Physics (Y)	Fossils and the Story of Ancient Life (S) Ecology (S) Botany (S) Zoology (S) Forensics (S) Anatomy and Physiology (Y)
Honors Biology (Y)	Chemistry (Y) Honors Chemistry (Y) Physics (Y)	Advanced Placement Physics (Y) Advanced Placement Chemistry (Y) Advanced Placement Biology (Y) Anatomy and Physiology (Y)	Advanced Placement Biology (Y) Advanced Placement Physics (Y) Advanced Placement Chemistry (Y) Independent Study (Y) Cadet Teaching (S)
<b>Legend:</b> <b>S = Semester</b> <b>Y = Year</b>	Geology (S) Astronomy (S) Meteorology (S) Fossils and the Story of Ancient Life (S) Ecology (S)	Geology (S) Astronomy (S) Meteorology (S) Fossils and the Story of Ancient Life (S) Ecology (S) Botany (S) Zoology (S) Forensics (S) Advanced Placement Physics (Y) Advanced Placement Chemistry (Y)	

### **Advanced Placement Biology – H3235W**

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Topics covered include an in-depth study of molecules, cells, heredity, evolution, organisms, and populations. The two main goals are to help the student develop a conceptual framework for modern biology and to help them gain an appreciation of science as a process. Dual Credit and Advanced Placement credit offered.

**Prerequisite:** *Students interested in taking AP Biology must have successfully completed high school Biology and high school Chemistry. Students should be able to read and comprehend college level text, take independent notes, follow multi-step procedures, and keep up with a rigorous level of coursework. Students should have a strong understanding of the following: All topics covered in high school biology, chemical bonds and reactions, enzyme structure and function, and molecular structure and function of all other biomolecules.*

Open to: 11, 12

Credit: 1 Unit – Two Semesters

**Weighted: 1.0**

### **Advanced Placement Chemistry – H3281W**

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students, this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register for courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. Dual Credit and Advanced Placement credit offered.

**Prerequisite:** *Students interested in taking AP Chemistry must have successfully completed high school chemistry and Algebra II. Students should be able to read and comprehend college level text, take independent notes, follow multi-step procedures, and keep up with a rigorous level of coursework. Students should have a strong understanding of the following: writing formulas, balancing reactions, naming chemical compounds and using significant figures; performing stoichiometry problems and applying them to chemical reactions, creating diagrams to explain why microscopic structure influences macroscopic behavior.*

Open to: 11, 12

Credit: 1 Unit – Two Semesters

**Weighted: 1.0**

### **Advanced Placement Physics – H3270W**

This course is the equivalent of a general physics course typically taken the first semester of the freshman year in college. It provides an introduction to the main principles of physics and emphasizes the development of problem-solving ability. Topics covered are mechanics, thermodynamics, introduction to electric circuits and mechanical waves and sound. Dual Credit and Advanced Placement credit offered.

**Prerequisite:** *Students interested in taking AP Physics must have successfully completed high school geometry and be concurrently enrolled in Algebra II. Students should be able to read and comprehend college level text, take independent notes, follow multi-step procedures, and keep up with a rigorous level of coursework. Students should have a strong understanding of the following: Performing algebraic manipulations of mathematical equations; Trigonometry focusing on the use of sine, cosine and tangent; Creating a graph using data and interpret said graph using tools such as slope and area.*

Open to: 11, 12

Credit: 1 Unit – Two Semesters

**Weighted: 1.0**

### **Anatomy and Physiology – H3241, H3241W MHS Only**

This course is similar to a typical introductory anatomy and physiology class that the student would be required to take in college if they pursue health care careers. The course is specifically modeled after and taught in a similar manner to similar courses at major universities. The anatomy and physiology of the human body is studied in this class utilizing many laboratory experiences and hands-on activities. Examples of the physiology labs include: learning to take and read EKG's and blood pressures, normal and abnormal heart sounds and blood typing and urinalysis. Examples of anatomical studies include: bone, heart, brain, eye and kidney dissection. Additionally, the year will be capped off with an amazing full cat dissection to more intricately study all of the systems in detail. Dissection is required. Dual Credit offered.

**Prerequisite: Biology with a "B" or higher or Honors Biology with a "C" or higher and current teacher approval**

Open to: 11, 12

Credit: 1 Unit – Two Semesters

**Weighted: .75 (MHS only)**

### **Astronomy – H3160**

This course includes a wide variety of hands-on learning experiences with models, charts and posters to gain an understanding of the large-scale structure of the universe. The solar system stars, stellar evolution, constellations and galaxies are covered in this course.

**Prerequisite: Two semesters of high school science with a "C" or higher**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester

### **Biology – H3110**

This course covers topics of chemistry of life, evolution of life, cell structure and function, cell reproduction, genetics and ecology.

**Prerequisite: Both semesters of Earth/Environmental Science with a passing grade or both semesters of Earth/Environmental Science Concepts with a "B" or higher**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters

### **Biology Concepts – H3100**

This course covers selected topics in biology at a pace and level appropriate for the student who has difficulty learning scientific principles.

**Prerequisite: Both semesters of Earth/Environmental Science Concepts with a passing grade and current teacher approval**

Open to: 10, 11

Credit: 1 Unit – Two Semesters

### **Botany – H3200**

Botany is a course providing advanced study of flowering plant structure and function. It applies botanical knowledge to horticultural procedures dealing with plant identification, plant propagation and plant growth. This course will provide the student with the skills and tools necessary to apply scientific knowledge to the growing of plants.

**Prerequisite: Biology or Honors Biology with a "C" or higher in both semesters or current teacher approval**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester

### **Cadet Teaching – Science – H3310**

This course gives the opportunity for the student to participate in many activities that will familiarize him/her with the teaching process as well as strengthening his/her own science skills. The student will help prepare lessons, tests and lab investigations. The cadet teacher will also assist small groups of students and present a lesson to the class.

**Prerequisite: Application approval**

Open to: 12

Credit: ½ Unit – One Semester (elective)

### **Chemistry – H3060**

This course involves the study of the laws, concepts and principles governing the composition and changes of matter. Emphasis is placed on critical thinking skills, problem solving and laboratory activities.

**Prerequisite: Both semesters of Algebra I with a “C” or higher**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters

### **Earth/Environmental Science – H3192**

This course provides an introduction to the study of Earth's place in the Universe, Earth Systems, and the impact of Human activity on the Earth. The student studies and measures the interactions of matter, energy, and relationships in an ecosystem, the history of the earth and its systems, weather and climate, and human sustainability. Emphasis is placed on human interactions with the environment and the earth's systems.

**Prerequisite: None**

Open to: 9

Credit: 1 Unit – Two Semesters

### **Earth/Environmental Science Concepts – H3191**

This course provides an introduction to the study of Earth's place in the Universe, Earth Systems, and the impact of Human activity on the Earth at a pace and level appropriate for the student who has difficulty learning scientific principles. The student studies and measures the interactions of matter, energy, and relationships in an ecosystem, the history of the Earth and its systems, weather and climate, and human sustainability. Emphasis is placed on human interactions with the environment and the Earth's systems.

**Prerequisite: Approval by 8<sup>th</sup> Grade Teacher**

Open to: 9

Credit: 1 Unit – Two Semesters

### **Ecology - H3195**

This course is the study of the wise use of our natural resources including soil, water, air, forest, wildlife and energy. Emphasis is placed on the nature of the resource, methods of analysis, environmental concerns and sustaining our natural resources. To challenge the motivated student, outside reading is required.

**Prerequisite: Two semesters of high school science with a “C” or higher**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester

### **Forensics – H3220**

Forensics is an upper-level science course that gives the interested student an opportunity to apply the scientific knowledge learned in Chemistry, Biology and Physics to real life, crime-solving applications. The student uses the inquiry method and knowledge from previous science courses to investigate the role and application of science in crime solving. This course covers crime scene processing, forensic serology, DNA fingerprints, hair and fiber analysis, document analysis, toxicology, chromatography, fingerprints, bomb and arson, forensic anthropology and deductive reasoning. Each lesson incorporates real-life applications of crime solving. Guest speakers are brought in to connect the lessons to real-life careers.

**Prerequisite: Biology and Chemistry with a “C” or higher in both semesters and current teacher approval**

Open to: 11, 12

Credit: ½ Unit – One Semester

### **Fossils and the Story of Ancient Life – H3180**

Fossils and The Story of Ancient Life is a rigorous course, which allows the learner to examine life as it existed in the past through hands-on experiences. The student will develop skills for understanding the patterns of life of the past and how it affects life in the present. Every topic covered provides practical application into everyday life and is a good foundation for future studies in science. The student uses hands-on learning with dinosaur replica models, fossils, and rock specimens to understand the environments that existed in the past. The geologic time scale, fossils, geologic dating, and the origin of life are discussed.

**Prerequisite: Two semesters of high school science with a “C” or higher**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester

### **Geology – H3150**

Geology is an introductory course which presents the learner with a basic understanding of the importance of rocks, minerals, plate tectonics and the processes which form and shape the land. The student develops skills for the practical application and understanding into everyday life. This course is an introduction to the field of geology. Major themes consist of studies of minerals, rocks, volcanoes, earthquakes, crustal movement, mountain building, continental movement, forces in weathering, glacial erosion, maps and topography. Emphasis will be placed on laboratory investigations. The applications of materials covered relating to the daily life of the student will be stressed.

**Prerequisite: Two semesters of high school science with a “C” or higher**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester

### **Honors Biology – H3120**

This course is designed for the student who would like a more rigorous study of molecular biology. This course covers topics of chemistry of life, evolution of life, cell structure and function, cell reproduction, genetics and ecology.

**Prerequisite: To take Honors Biology as a freshman, 8<sup>th</sup> grade science with a “B” or higher. For Honors Biology as a sophomore, both semesters of Earth/Environmental Science with a “B” or higher.**

**For Honors Biology as a junior, Chemistry with a “B” or higher or Honors Chemistry with a “C” or higher.**

Open to: 9, 10, 11

Credit: 1 Unit – Two Semesters

### **Honors Chemistry – H3070**

This course provides the student with a more rigorous study of chemistry. The class involves the study of the laws, concepts and principles governing the composition and changes of matter. Emphasis is placed on critical thinking skills, problem solving and laboratory activities.

**Prerequisite: Successful completion of Algebra II with a “C” or higher**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters

### **Independent Study – Science – 3300**

This course gives the opportunity for the interested science student to plan, research and develop an investigation in their area of interest. The student will be placed with another teacher that will serve as a mentor to the program. The student's grade will be determined by evaluation of his/her work ethic, responsibility, research and the final project.

**Prerequisite: Three years of science with supervising teacher and principal approval of project proposal**

Open to: 12

Credit: 1 Unit – Two Semesters

### **Meteorology – 3170**

The student uses the inquiry method to gain the basics in weather forecasting through a hands-on learning approach. This course covers the elements that govern the weather and climate, characteristics of the atmosphere, and the analysis and synthesis of weather data to make accurate forecasts and severe weather occurrences.

**Prerequisite: Two semesters of high school science with a “C” or higher**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester

### **Physical Science – H3024**

This course provides the student with a study of chemistry and physics topics. The class involves the study of the laws, concepts and principles governing the composition and changes of matter. This course will also provide the student with an understanding of the basic scientific principles of physics.

**Prerequisite: Both semesters of Biology with a passing grade**

Open to: 11, 12

Credit: 1 Unit – Two Semesters

### **Physical Science Concepts – H3023**

This course provides the student with a study of chemistry and physics topics at a pace and level appropriate for the student who has difficulty learning scientific principles. The class involves the study of the laws, concepts and principles governing the composition and changes of matter. This course will also provide the student with an understanding of the basic scientific principles of physics.

**Prerequisite: Both semesters of Biology Concepts with a passing grade and current teacher approval**

Open to: 11, 12

Credit: 1 Unit – Two Semesters

### **Physics – H3420**

This course provides an introduction to the study of the physical world and promotes problem solving and analysis of data with valid conclusions. The student studies and measures the interaction of matter and energy, accompanied by laboratory explorations. Emphasis is placed on individual investigations and class discussion of experimental results and analysis of data. The course also includes discussion and practice with problem solving. Topics include Kinematics (motion, forces, energy and momentum) and Waves and Electromagnetic Radiation.

**Prerequisite: One year of high school science with a passing grade and a “C” or higher in Algebra II or equivalent.**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters

### **Zoology – H3210**

Zoology is the scientific study of animals and their evolutionary importance. This course provides the student with an in-depth study of animals common to their environment and their impact on humans. Most major animal phyla will be studied with emphasis on morphology, evolutionary development, behavior, ecology, and economic importance. Laboratory activities will be used extensively and dissection labs will occur.

**Prerequisite: Biology or Honors Biology with a “C” or higher in both semesters and current teacher approval**

Open to: 10, 11, 12

### Social Studies

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	Elective Courses (Grades 11 & 12)
<b>Required Course Options (Choose 1 per grade level)</b>			
US History (Y)  Honors US History (Y)	World History (Y)  Honors World History (Y)  AP World History (Y)  AP European History (Y)	American Government (Y)  AP United States Government and Politics (Y)	AP European History (Y)  AP Human Geography (Y)  AP Macroeconomics (S)  AP Microeconomics (S)  AP Psychology (Y)  AP United States Government and Politics (Y)  AP U.S. History (Y)  AP World History: Modern (Y)  Bosnian American Studies (S)  Contemporary Issues – (MHS) (Y)  Modern America (S)  Introduction to Psychology (S)  Psychological Inquiry (S)  African American Studies (S)  Explorations in Social Studies (S)  Introduction to Psychology (S)  Economics (S)  Sociology (S)  <b>Senior Year Only</b> Independent Study (S)
<b>Elective Options</b>			
AP Human Geography (Y)	AP Human Geography (Y)  African American Studies (S)  Explorations in Social Studies (S)  Introduction to Psychology (S)	Any course listed in the Electives Course Options column (except those identified as Senior Year Only)	
<b>Legend:</b> <b>S = Semester</b> <b>Y = Year</b>			

The following course areas of social studies are required of the student in the fulfillment of the three units of social studies required for graduation:

- One Unit of United States History*      *Grades 9-12*
- One Unit of World Studies*            *Grades 10-12*
- One Unit of American Government*   *Grades 10-12*

### **Advanced Placement European History – H1370W**

In AP European History, the student investigates significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. The student analyzes primary and secondary sources, develops historical arguments, makes historical comparisons, and evaluates causation and change and continuity over time within the historical context. The course also provides six themes that the student explores throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and the national and European identity.

**Prerequisite: 3.0 GPA or teacher approval**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (World Studies)

**Weighted: 1.0**

### **Advanced Placement Human Geography – H1345W**

Advanced Placement (AP) Human Geography is a course to introduce the student to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. The student employs spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Advanced Placement credit is offered. The student is encouraged to take the AP Exam at their own expense. Success on this test may make the course eligible for college credit.

**Prerequisite: Students who are successful in AP Human Geography must be strong independent readers and organized writers. Students must be motivated and able to complete college-level course work**

Open to 9, 10, 11, 12

Credit: 1 Unit – Two Semesters (Social Studies Elective)

**Weighted: 1.0**

### **Advanced Placement Macroeconomics – H1355W (OHS only)**

The purpose of the AP course in macroeconomics is to give the student a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Throughout the course, the student will develop their economic reasoning skills as they practice the economic way of thinking.

**Prerequisite: Students who are successful in AP Macroeconomics must be strong independent and team learners, capable of reading at a college level, and capable of reading and constructing basic graphs. Students must be motivated to complete college level work. Successful completion of a previous social studies course is required as is successful completion of Algebra I.**

Open to: 11, 12

Credit: ½ Unit – First Semester (Independent Elective)

**Weighted: 1.0**

### **Advanced Placement Microeconomics – H1357W (OHS only)**

The purpose of the AP course in microeconomics is to give the student a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and function of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Throughout the course, the student will develop their economic reasoning skills as they practice the economic way of thinking.

**Prerequisite: Students who are successful in AP Microeconomics must be strong independent and team learners, capable of reading at a college level, and capable of reading and constructing basic graphs. Students must be motivated to complete college level work. Successful completion of a previous social studies course is required as is successful completion of Algebra I.**

Open to: 11, 12

Credit: ½ Unit – Second Semester (Independent Elective)

**Weighted: 1.0**

### **Advanced Placement Psychology – H1335W**

The AP Psychology course is designed to introduce the student to the systematic and scientific study of the behavior and mental processes of human beings. Critical thinking is an active and systematic strategy used to examine, evaluate, and understand events, solve problems, and make decisions on the basis of sound reasoning and valid evidence. The curriculum for this course places a heavy emphasis on essential readings, writing assignments, independent projects, and frequent tests intended to prepare students for the AP Exam.

**Prerequisite: Students who are successful in AP Psychology must be strong independent readers and organized writers. Students must be motivated and able to complete college-level course work. Successful completion of a previous high school history course is required. Course content is not recommended for freshman.**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (Independent Elective)

**Weighted: 1.0**

### **Advanced Placement U.S. History – H1231W**

This course is a thematic approach to American History on the college level. The student will be required to complete advanced reading and writing assignments, which require a high standard of proficiency in these skills. Essay tests, critiques, oral/written presentations, technology oriented projects, and research are an integral part of this course. Dual Credit offered.

**Prerequisite: Students who are successful in AP United States History must be strong independent readers and organized writers. Students must be motivated and able to complete college-level course work. Successful completion of a previous high school history course is required.**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (American Studies)

**Weighted: 1.0**

### **Advanced Placement United States Government and Politics – H1090W**

Advanced Placement United States Government and Politics is a year-long college level course which will give the student an analytical perspective on government and politics in the United States and the State of Missouri. This course includes both the study of general concepts used to interpret United States government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute United States government and politics. The student will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. The student will be able to explain through classroom discussion and written response what role elections, interest groups, political parties and public opinion play in the policy making process. The student will consult a variety of primary and secondary sources, including but not limited to magazines, journals and a variety of newspapers. Advanced Placement credit offered. See page 12 for more information about Advanced Placement fees.

**Prerequisite: Students who are successful in AP United States Government and Politics must be strong independent readers and organized writers. Students must be motivated and able to complete college-level course work. Successful completion of a previous high school history course is required.**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (American Government)

**Weighted: 1.0**

### **Advanced Placement World History: Modern – H1135W**

In AP World History: Modern, students will investigate significant events, individuals, developments and processes from 1200 to the present, with a brief review of important foundational topics. The students will explore connections among themes, such as humans and the environment, cultural developments and interactions, governance, and economic systems. Advanced Placement credit offered. See page 12 for more information about Advanced Placement credit fees.

**Prerequisite: Students who are successful in AP World History must be strong independent readers and organized writers. Students must be motivated and able to complete college-level course work. Successful completion of a previous high school history course is required.**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters (World Studies)*

**Weighted: 1.0**

### **African American Studies – H1240**

African-American studies is an elective social studies course that begins in Pre-Colonial Africa and briefly reviews the history of African civilizations. The course then follows the forced migration of African peoples into the Americas. The student will research and discuss the African-American political, cultural, and personal experience from slavery through the Civil War, Jim Crow, and the Civil Rights movement, as well as looking at local issues in St. Louis from Dred Scott to housing segregation to Ferguson. Students will also analyze the many contributions of African-Americans to our country with emphasis on the exploration of black culture through music and art.

**Prerequisite: None**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Independent Elective)*

### **American Government – H1000**

This course is devoted to the study of the federal government and the United States Constitution along with the Missouri state and local governments. Other relevant subjects include economics, geography, and current events. The student will be required to use various forms of technology and develop literacy that incorporates research and interpretation of documents, visuals, and oral recordings.

**Prerequisite: None**

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters (American Government)*

### **Cadet Teaching – Social Studies – H1390**

This course gives the student the opportunity to participate in many activities that will both familiarize him/her with the teaching process, as well as strengthen his/her own social studies skills. The student will develop the leadership and organizational skills needed in any working environment.

**Prerequisite: Application approval**

*Open to: 12*

*Credit: ½ Unit – One Semester (Elective)*

### **Contemporary Issues – H1360W – (MHS only)**

Contemporary Issues is a course that is a comprehensive study of American history and the impact of domestic, economic, social, and foreign policy issues since 1945—the end of World War II to the present. The student will have the opportunity to examine, in detail, the major events and historical trends that impact our world today: the origins of the Cold War, the origins of the Korean and Vietnam Wars, the Civil Rights Movement, the social history of the U.S. since 1945, and the impact of domestic and economic decisions on the history of the future of the American people; and the student will have the occasion to investigate topics of recent history as they relate to their personal lives. The student is encourage to enroll in college credit by paying tuition to the university.

**Prerequisite: 3.0 overall GPA and current teacher approval.**

*College Credit: Accumulative GPA of 3.0 is required to take the course for college credit.*

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters (Independent Elective)*

**Weighted: 1.0**

**Economics – H1350**

Economics is a course in which the student learns the basic economic concepts and principles behind personal choices, monetary exchanges and financial interactions. The course asks the student to critically analyze economic philosophy, prosperity and recession, national economic systems, and individual financial decisions. The student will have the opportunity to investigate economic situations that affect their personal lives via the Internet.

**Prerequisite: None**

Open to: 11, 12

Credit: ½ Unit – One Semester (Independent Elective)

**Explorations in Social Studies – H1005**

Explorations in Social Studies is a research-based course that features maximum student choice in learning. Working within an organized framework students will explore interest-based, self-directed inquiry centered on various social studies topics. See your current social studies teacher for specific topics of inquiry. Examples of possible topics may include, but are not limited to military history, sports and culture, women's studies, and St. Louis History.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Independent Elective)

**Honors United States History: Reconstruction to the Modern Era – H1111**

Honors United States History covers the periods of American history from Reconstruction to the Modern Era. Honors U.S. History examines the ever-evolving relationships among the government, the people, and the economy, as well as analyzing the changing views of citizenship. The student in this course will also evaluate the role of the United States in globalization. Honors US History goes into more depth and detail, asks the student to evaluate historical perspectives through the analysis of historical documents for the purpose of finding, creating, writing, and giving evidence to defend an argument. There is an increased expectation for reading, writing, and speaking in this course along with participation in class discussion.

**Prerequisite: Teacher Recommendation**

Open to: 9

Credit: 1 Unit – Two Semesters (United States History)

**Honors World History: 1450 – Present Day – H1105**

Honors World History is the analysis of global history since 1450 with an emphasis on historical inquiry, use of evidence and recognizing different perspectives. This course will examine changes throughout World History including governmental, cultural, economic, and geographical. The Honors World student will pose questions, create arguments and engage in inquiry about the development of history as it relates to our present day cultures and situations while focusing on what it means to be a part of humanity.

**Prerequisite: United States History with a "B" or higher**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (World Studies)

**Independent Study – Social Studies – H1380**

This course is designed for the student possessing a high degree of independence and responsibility who desires to investigate topics not available through regular course work. The course objectives, outline, and evaluation procedures must be developed by the student and teacher and submitted to the department chairperson prior to enrollment.

**Prerequisite: Application approval**

Open to: 12

Credit: ½ Unit – One Semester (Elective)

### **Introduction to Psychology – H1320**

This course offers an introduction to the scientific study of thoughts and behavior. Psychology is a unique course in which the student will learn to assess human behavior objectively. In Introduction to Psychology, the focus is on understanding how this subject can be used to make sense of people's lives.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Independent Elective)

### **Modern America – H1365**

In Modern America, the student will examine the impact of domestic, economic, social, and foreign policy issues Post World War II to the present. The student will discuss and debate the major events and historical trends that impact our world today: the origins of the Cold War, the Civil Rights Movement, current Middle Eastern issues, the social history of Post-World War II America and the impact that domestic policy, economic decisions and technological advancements have had on our country.

**Prerequisite: None**

Open to: 11, 12

Credit: ½ Unit – One Semester (Independent Elective)

### **Psychological Inquiry – H1330**

Through student-driven investigations, the student will gain knowledge and understanding of key concepts within the field of psychology. The student will develop research as well as critical thinking skills.

**Prerequisite: Must pass Introduction to Psychology or AP Psychology**

Open to: 11, 12

Credit: ½ Unit – One Semester (Independent Elective)

### **Sociology – H1340**

The student in sociology studies people and their lives in a group. Sociology is concerned with how people behave in groups and how group interaction shapes their behavior. Topics include socialization from birth through adulthood, forms of communication, roles in society, cultural and social changes, the family, and problems facing society.

**Prerequisite: None**

Open to: 11, 12

Credit: ½ Unit – One Semester (Independent Elective)

### **United States History: Reconstruction to the Modern Era – H1109**

This introductory United States History course covers the periods of American history from Reconstruction to the Modern Era. U.S. History examines the ever-evolving relationships among the government, the people, and the economy, as well as analyzing the changing views of citizenship. The student in this course will also evaluate the role of the United States in globalization.

**Prerequisite: None**

Open to: 9

Credit: 1 Unit – Two Semesters (United States History)

### **World History: 1450 – Present Day – H1100**

World History is the analysis of global history since 1450 with an emphasis on historical inquiry, use of evidence and recognizing different perspectives. This World History course will examine changes throughout World History including governmental, cultural, economic, and geographical. This course is designed to give the student an overview and encourage them to think critically about the development of history as it relates to our present day cultures and situations while focusing on what it means to be a part of humanity.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (World Studies)

## Special Education Programs

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Everyday English	Everyday English	Everyday English	Everyday English
Reading Lab	Everyday Social Skills	Everyday Social Skills	Everyday Social Skills
English Foundations	Reading Lab	Reading Lab	Reading Lab
English Lab	English Foundations	English Foundations	English Foundations
Everyday Social Skills	English Lab	English I Team	English II Team
English I Team	English I Team	English II Team	English III Team
	English Foundations	English Foundations	English Lab
	English I Team	English I	English II
	English II Team	English II Team	English III Team
		English III Team	English IV

**Mathematics course sequence may be changed to meet IEP goals.**

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Everyday Math	Everyday Math	Everyday Math	Everyday Math
	Math Foundations	Math Foundations	
Math Foundations	Pre-Geometry Team	Pre-Geometry Team	
Pre-Algebra Team	Pre-Algebra Team	Algebra Foundations	
Algebra Foundations	Algebra Foundations	Principles of Algebra 1A/1B Team	
Principles of Algebra 1A/1B Team	Principles of Algebra 1A/1B Team	Pre-Algebra Team	
	Principles of Algebra II Team	Algebra II Team	
<b>Legend:</b>		Principles of Geometry Team	
<b>S = Semester</b>			
<b>Y = Year</b>			

Special School District, in partnership with the Mehlville School District, offers a continuum of services to the student who has a diagnosed educational disability and currently receives services through Special School District under IDEA. Upon recommendation of the student's Individual Education Plan (IEP) team, program options include, but are not limited to:

**Academic Support**

Access Office  
Team Teaching  
English Lab  
Reading Lab  
Foundation Courses  
Everyday Living Courses  
Community-Based Instruction (on and off-campus)  
Study Skills Courses

**School to Work Support**

Pre-Vocational Work Experience (off-campus)  
Co-Op Program (off-campus)  
Career Training Program (off-campus)  
Alternative Diploma Program

**Collaborative/Team Teaching**

In this model of teaching, the student, including those with disabilities, is taught by a Mehlville content area teacher and a Special School District teacher who collaboratively teach the Mehlville curriculum. The Mehlville teacher is primarily responsible for teaching the course content, while the SSD teacher is responsible for teaching specific strategies, monitoring the progress of the student, adapting materials, supplemental teaching of course content, and consulting with the classroom teacher. In many situations, the teaching responsibilities are shared.

**Access Office**

This service is provided to the student on an as-needed, drop-in basis when accommodations cannot be provided within the regular classroom setting. This service prepares the student for the transition to utilizing accommodations at the post-secondary level. The student is encouraged to schedule appointments and secure "test passes" from a Resource Teacher.

### **Algebra Foundations – H9091**

This course is designed to prepare the student for further mathematical study by enhancing some previously learned mathematical processes and developing new processes. Algebra Foundations will provide the skills necessary for remediation of skill deficits while working with unknown variables in everyday situations.

**Prerequisite: Completion of Pre-Algebra and IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Mathematics)*

*In this support model, the student's IEP goals are addressed in the classroom while following the Mehlville curriculum. The student moves into team taught Pre-Algebra, Algebra or Geometry classes the following year. Lectures, presentations, assignments and materials are adapted to create opportunities for students' success.*

### **Community Based Vocational Instruction (CBVI)**

**CBVI Schnucks – H9078SC**

**CBVI In-House – H9080**

**CBVI Nazareth – H9082**

**CBVI Mercy South – H9080SA**

This introductory course is intended to aid the student in the exploration of pre-vocational experiences that include a rotation of various jobs in a supportive environment. The student will explore personal strengths, weaknesses and interests while receiving on-the-job training. Topics investigated include self-awareness, goal setting, exploring job skills, interview skills and simulations, employer/employee relations and responsibilities, workplace behaviors and workplace etiquette, nonverbal communication, personal and workplace safety, as well as proper hygiene.

**Prerequisite: IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: Up to 2 credits (English Language Arts, Social Studies, Elective, Practical Arts)*

### **Cooperative Education (Co-Op) Program – H9080**

This program is for the student with disabilities, age 16 and older, whose IEP reflects a need for work experience in a competitive setting. Through partnership with Missouri Division of Vocational Rehabilitation and Special School District, the Cooperative Education (Co-Op) program assists the eligible student with disabilities in earning school credit, while participating in school-directed, paid and supervised work experience. The Cooperative Education (Co-Op) Program is designed to facilitate the integration and coordination of transition services.

**Prerequisite: IEP Team approval and Missouri Division of Vocational Rehabilitation Certificate**

*Open to: Juniors and seniors who are 16 or older*

*Credit: Up to 2 credits per semester – Two semesters (Practical Arts, Elective)*

### **English I Foundations – Literary Genres and Composition – H9095**

This foundations course includes a study of literary genres: short story, nonfiction, print media, drama, poetry and the novel. Writing includes development of a variety of sentences and paragraphs. Language study includes vocabulary and grammar study, oral presentations, and development of information literacy. In this support model, the student's IEP goals are addressed in the classroom while following the Mehlville curriculum. Lectures, presentations, assignments and materials are adapted to create opportunities for student success.

**Prerequisite: IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters per content course*

### **English II Foundations – H9096**

This foundations course includes a survey of multi-cultural literature, as well as development of composition. Language study includes vocabulary and grammar study, oral presentations and development of information literacy. Writing includes development of a variety of paragraphs and short essays and reinforcement of editing skills. In this support model, the student's IEP goals are addressed in the classroom while following the Mehlville curriculum. Lectures, presentations, assignments and materials are adapted to create opportunities for student success.

**Prerequisite: IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts)*

### **English III Foundations – H90961**

This foundations course includes a survey of American Literature and composition. Writing includes research techniques, development of multi-paragraph essays, and enhancement of editorial skills. Language study will include vocabulary and grammar study, oral presentations and development of information literacy.

**Prerequisite: IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts)*

### **English Lab – Literary Genres and Composition – H9098**

This developmental course includes the study of literary genres: short story, nonfiction, printed media, drama, poetry and the novel. Composition covers paragraphs, essays, essay questions and answers, and introduces documentation. Language study includes study skills, vocabulary skills, library skills and oral presentations. Grammar study, in conjunction with writing, is included in this course.

**Prerequisite: IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts)*

### **Everyday Living Courses:**

#### **Everyday English – H9085**

#### **Everyday Math – H9087**

#### **Everyday Social Studies – H9092**

In this course, the student's IEP goals and transition plans are addressed in the classroom, as well as in the community. Many of the units taught in these classes are integrated for continuous acquisition and application of skills, which are assessed through community-based instruction. Utilizing the Mehlville curriculum, lectures, presentations, assignments, materials and community experiences are adapted to create opportunities for the student's success.

**Prerequisite: IEP team approval**

*Open to: 9, 10, 11, 12*

#### **Everyday English – H9085**

*Credit: 1 Unit - Two Semesters*

#### **Everyday Social Studies – H9092**

*Credit: 1 Unit – Two Semesters*

#### **Everyday Math – H9087**

*Credit: 1 Unit – Two Semesters*

### **Everyday Science/Health – H9068**

Everyday Science and Health is designed to meet the individual needs of the student who has extreme difficulty in all academic areas and is not able to gain information and knowledge at the level which is necessary within the general education class. While most students enrolled in this course are eligible for alternative assessments (such as MAP-A), it is not mandatory. This course covers selected topics in Health, Biology, Physics, Chemistry, Earth Science, and Science and Technology at a level that is appropriate to address student IEPs and the need for daily living skills. A primary focus is the health and safety of the student as they become as independent as possible in life skills that will continue beyond the school experience. Acquisition and application of skills will be assessed in various settings including a component of Community-Based instruction.

**Prerequisite: IEP team approval**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters

### **Everyday Social Skills – H9065**

This course covers selected topics in social skills. A primary focus is for the student to learn independent/daily living skills to become as independent as possible in skills that will continue beyond the school experience. Group interaction, discussion and cooperation during group role-playing and problem-solving sessions will be commonplace.

**Prerequisite: Teacher/administrator recommendation, IEP team decision**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters

### **Exploring Teen Issues – H9069**

This course explores the student's educational disabilities and the impact on daily living and school functioning. The student will explore interpersonal relationships and the difficulties surrounding interactions with others, develop appropriate communication skills, and interpret social situations. They will acquire skills to problem solve independently, identify coping skills and utilize anger management techniques to resolve daily school issues. The student will examine diagnostic, IEP and therapeutic processes, as well as the student's rights and responsibilities. The student will identify and articulate their learning style, strengths and limitations, as well as implications of their educational disability. Pupils will engage in accessing appropriate accommodations in a variety of settings. Previously taught study skills are reinforced through application.

**Prerequisite: IEP team approval**

Open to: 9, 10, 11, 12

Credit: ½ or 1 Unit – One or Two Semesters (Elective); may be repeated for additional elective credit

### **Math I Foundations – H90891**

This course is designed to prepare the student for further mathematical study by enhancing some previously learned mathematical processes and developing new processes. The student will learn to apply these processes using mathematical reasoning and technology to solve everyday problems that have meaning beyond the classroom. This course gives the student the opportunity to strengthen skills using the basic operations of addition, subtraction, multiplication and division of whole numbers, decimals and fractions. In this support model, the student's IEP goals are addressed in the classroom while following the Mehlville curriculum. Lectures, presentations, assignments, and materials are adapted to create opportunities for student success.

**Prerequisite: IEP team approval**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters (Mathematics)

### **Math II Foundations – H9089**

This course is designed to prepare the student for further mathematical study by enhancing some previously learned mathematical processes and developing new processes. The student will learn to apply these processes using mathematical reasoning and technology to solve everyday problems that have meaning beyond the classroom. This course gives the student the opportunity to strengthen skills using the basic operations of addition, subtraction, multiplication and division of whole numbers, decimals and fractions. Measurement and graphing are also covered. In this support model, the student's IEP goals are addressed in the classroom while following the Mehlville curriculum. Lectures, presentations, assignments and materials are adapted to create opportunities for student success.

**Prerequisite: IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Mathematics)*

### **Math III Foundations – H9090**

This course is designed to prepare the student for further mathematical study by enhancing some previously learned mathematical processes and developing new processes. The student will learn to apply these processes using mathematical reasoning and technology to solve everyday problems that have meaning beyond the classroom. This course gives the student the opportunity to strengthen skills using the basic operations of addition, subtraction, multiplication and division of whole numbers, decimals and fractions. The foundations for algebra and geometry introduced as problem-solving skills are stressed. In this support model, the student's IEP goals are addressed in the classroom while following the Mehlville curriculum. Lectures, presentations, assignments and materials are adapted to create opportunities for student success.

**Prerequisite: IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Mathematics)*

### **Personal Finance Foundations – H9066**

Personal Finance prepares the student for the challenges that they will encounter in the future. As a consumer, citizen, worker and taxpayer, the student will learn how to manage their own finances and develop the skills necessary to live on their own. Topics covered during this course include: career exploration, earning and managing income, income taxes, money and banking, saving and investing, credit, advertising, the consumer's role in the marketplace, and fraud and consumer crimes. This class will fulfill the high school graduation requirement for Mehlville School District and the Missouri Department of Elementary and Secondary Education.

**Prerequisite: IEP team approval**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Personal Finance Requirement)*

### **Reading Lab – H0125**

This class is designed for the student who is a non-reader, emerging reader, and a student with significant delays in overall reading development. This course establishes and/or expands the domains of literacy: reading, writing, speaking, listening and thinking. The focus of the course is to remediate identified deficits and to provide strategic instruction for reading across all content areas. Generalization of these skills will be observable and measurable across school settings. This multi-year class is taught by a state certified special education teacher/reading specialist with a maximum of 10 students per class.

**Prerequisite: Completion of reading assessment and IEP team approval**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters (English Language Arts) Additional semesters may be taken for elective credit based on the recommendation from the student's IEP team*

**Self-Advocacy – H9071**

This course explores educational disabilities and skill diversity. The student will examine diagnostic and IEP processes, as well as the student's rights and responsibilities. The student will identify and articulate their learning style, strengths and limitations, as well as implications of their educational disability. The student will engage in accessing appropriate accommodations in a variety of settings. Previously taught study skills are reinforced through application.

**Prerequisite: IEP team approval**

Open to: 10, 11

Credit: ½ or 1 Unit – One or Two Semesters (Elective); may be repeated for additional elective credit

**Study Skills – H9070**

Study Skills provides instruction in strategies and guided practice to achieve success and independence in the high school setting. Strategies to be taught and practiced are in the areas of self-management, following directions, listening, note-taking, comprehension of content area materials, memory, test preparation and test taking, reference and research, and writing.

**Prerequisite: IEP team approval**

Open to: 9, 10

Credit: 1 Unit – Two Semesters (Elective); may be repeated for additional elective credit

**Transition Study Skills – H9072**

This course is intended to aid the student in the transition from the secondary school to post-secondary goals. The student will explore personal strengths, weaknesses, interests and skills and use that information to aid in setting career goals. Post-secondary options and resources are investigated.

**Prerequisite: IEP team approval**

Open to: 11, 12

Credit: 1 Unit – Two Semesters (Elective); may be repeated for additional elective credit

**Transition to Work – H9083**

This course is intended to aid the student in the transition from the secondary school to the workforce. The student will explore personal strengths, weaknesses, interests and skills and use that information to aid in setting career goals. Topics investigated include self-awareness, goal setting, exploring career choices, business correspondence, job interview skills and simulations, employer/employee relations and responsibilities, workplace behavior and workplace etiquette. Other topics addressed include completing tax forms and taxes, and independent living.

**Prerequisite: IEP team approval**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Elective, may repeat)

## STEM - (Science Technology Engineering Mathematics)

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
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### Biomedical Science

Principles of Biomedical Sciences (Y)	Human Body Systems (Y)	Medical Interventions (Y)	Biomedical Innovation (Y)
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### Computer Science

Computer Science Principles (Y)	Cybersecurity (Y)  Computer Science A (Y)  Computer Science Principles (Y)	Cybersecurity (Y)  Computer Science A (Y)	Cybersecurity (Y)  Computer Science A (Y)
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### Engineering

Introduction to Engineering Design (Y)  <b>Legend:</b> <b>S = Semester</b> <b>Y = Year</b>	Principles of Engineering (Y)  Aerospace Engineering (Y)	Digital Electronics (Y)  Civil Engineering And Architecture (Y)  Aerospace Engineering (Y)	Engineering Design And Development (Y)
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## Biomedical Science

### Biomedical Innovation – HSTEM09

In this capstone course, the student applies their knowledge and skills to answer questions or solve problems related to the biomedical sciences. The student designs innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office or industry. Throughout the course, the student is expected to present their work to an adult audience that may include representatives from the local business and healthcare community. Dual credit is available.

**Prerequisite: Medical Interventions with a "C" or higher OR teacher approval**

Open to: 12

Credit: 1 Unit – Two Semesters

**Weighted: 0.75**

### **Human Body Systems – HSTEM07**

The student examines the interactions of body systems as they explore identity, communication, power, movement, protection and homeostasis. The student designs experiments, investigates the structures and functions of the human body and uses data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action and respiration. Exploring science in action, the student builds organs and tissues on a skeletal manikin, works through interesting real world cases and often plays the role of biomedical professional to solve medical mysteries.

**Prerequisite: Principles of Biomedical Science with a “C” or higher**

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

### **Medical Interventions – HSTEM08**

The student investigates the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body as the student explores how to prevent and fight infection, how to screen and evaluate the code in human DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios, the student is exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course, as well as the important roles scientific thinking and engineering design play in the development of interventions of the future. Dual credit offered.

**Prerequisite: Human Body Systems with a “C” or higher**

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

### **Principles of Biomedical Science – HSTEM06**

The student explores the concepts of human medicine and is introduced to research processes and to bioinformatics. Hands-on projects enable the student to investigate human body systems and various health conditions, including heart disease, diabetes, sickle-cell disease, hypercholesterolemia and infectious diseases. Over the length of the course, the students work together to determine the factors that lead to the death of a fictional person. After pinpointing those factors, the student investigates lifestyle choices and medical treatments that might have prolonged the person's life. The course is designed to provide an overview of all the courses in the Biomedical Sciences Program and to lay the scientific foundation necessary for student success in the subsequent courses. The key biological concepts embedded in the curriculum include homeostasis, metabolism, and inheritance of traits, feedback systems and defense against disease. Engineering principles are also incorporated into the curriculum where appropriate. These include the design process, feedback loops, fluid dynamics and the relationship of structure to function.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

## Computer Science

### **Computer Science A – HSTEM11**

CSA focuses on integrating technologies across multiple platforms and networks, including the Internet. The student collaborates to produce programs that integrate mobile devices and leverage those devices for distribution collection and data processing. The students analyze, adapt and improve each other's programs while working primarily in Java and other industry-standard tools. This course prepares the student for the College Board's Advanced Placement CS-A exam.

**Prerequisite:** *Computer Science Principles with a "C" or higher*

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

### **Computer Science Principles – HSTEM10**

The student works on a team to develop computational thinking and solve problems. The course covers the College Board's new CS Principles framework. The course aims to develop computational thinking to generate excitement about the field of computing, and to introduce computational tools that foster creativity.

**Prerequisite:** *None*

*Open to: 9, 10, 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

### **Cybersecurity – HSTEM14**

The PLTW Cybersecurity course exposes the high school student to the ever growing and far reaching field of cybersecurity. The student will accomplish this through problem-based learning, where the student will role-play as cybersecurity experts and train as cybersecurity experts do. The student will have a broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. The student will use algorithmic thinking, computational thinking, and especially, "outside-the-box" thinking. The student will explore the many educational and career paths available to cybersecurity experts, as well as other careers that comprise the field of information security.

**Prerequisite:** *none*

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters*

**Weighted: 0.75**

## Engineering

### **Aerospace Engineering (AE) PLTW – HSTEM15**

Aerospace Engineering is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and knowledge of an engineering student within the context of atmospheric and space flight. The student will explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight such as an airfoil, propulsion system, and a rocket. They learn orbital mechanics concepts and apply these by creating models using industry-standard software. They also apply aerospace concepts to alternative applications such as a wind turbine and parachute. The student will simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot.

**Prerequisite:** *Introduction to Engineering Design (IED)*

*Open to: 10, 11, 12*

*Credit: 1 Unit – Two Semesters (Practical Arts)*

**Weighted: 0.75**

### **Civil Engineering and Architecture (CEA) PLTW – HSTEM04**

The major focus of the Civil Engineering and Architecture course is a long-term project that involves the development of a local property site. As the student learns about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. The course provides freedom to the student to develop the property as a simulation or to model the real-world experiences that civil engineers and architects experience when developing property. Dual credit offered. See page 11 for dual credit fees and page 13 for PLTW fees.

**Prerequisite:** *Principles of Engineering (POE) with a “C” or higher and concurrently enrolled in Algebra II or higher*

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters (Practical Arts)*

**Weighted: 0.75**

### **Digital Electronics (DE) PLTW – HSTEM03**

This course provides an overview of the field of Electrical Engineering. The student will begin with electronic circuits and work their way into understanding complex electronic circuits using a design process, various integrated circuit chips, field programmable devices and robots. The student will use computer simulation software to design and test various circuits prior to the construction of these circuits. This course prepares the student to pursue two and four-year college degrees in engineering or engineering technology. At the end of the year, the student will have the option of taking a college credit exam at no cost that is transferable to most colleges with engineering programs. Dual credit offered. See page 11 for dual credit fees and page 13 for PLTW fees.

**Prerequisite:** *Principles of Engineering (POE) with a “C” or higher and concurrently enrolled in Algebra II or higher*

*Open to: 11, 12*

*Credit: 1 Unit – Two Semesters (Practical Arts)*

**Weighted: 0.75**

### **Engineering Design and Development (EDD) PLTW – HSTEM05**

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course in which the student works in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. This course applies and concurrently develops secondary level knowledge and skills in mathematics, science and technology. Utilizing the activity project problem-based (APPB) teaching and learning, the student will perform research to choose, validate and justify a technical problem. After carefully defining the problem, teams of students will design, build and test their solution. Finally, student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, the student will work closely with experts and continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities and their understanding of the design process. The student will take a national exam at no additional cost. Dual credit offered. Fees may apply to this course.

**Prerequisite: Senior with at least 2 credits of PLTW Engineering courses and current teacher approval**

Open to: 12

Credit: 1 Unit – Two Semesters (Practical Arts)

**Weighted: 0.75**

### **Introduction to Engineering Design (IED) PLTW – HSTEM01**

Through the Project Lead the Way curriculum, the student will look at how a product is developed, both artistically and technically. The student learns specific methods, known as the design process, for solving programs related to the development and innovation of products. Portfolios are developed by the student containing different mediums such as drawings, sketches, digital pictures, film clips and computer files to record and illustrate their design process. Concepts of careers, design, techniques, forms and shapes, geometry, graphing, adaptations, quality control, packaging and cost analysis are taught in a logical fashion and applied in this hands-on curriculum.

Dual credit offered. Fees may apply to this course.

**Prerequisite: Successful completion of Algebra I**

Open to: 9, 10, 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

**Weighted: 0.75**

### **Principles of Engineering (POE) PLTW – HSTEM02**

This class introduces the various fields of engineering technology and is beneficial for any student considering going into a two or four-year engineering/engineering technology program in college. This project-based class will explore concentration areas in the engineering field such as mechanical, electrical, control systems, statics, bridge building, material testing, the engineering design process, quality control, ballistics and failure prevention. The student will learn how to write technical reports, present their solutions, teamwork, and how science, math and technology are used by engineers on a daily basis. At the end of the year, the student has the option of taking a college credit exam at no cost that is transferable to most colleges with engineering programs.

Dual credit offered. Fees may apply to this course.

**Prerequisite: Introduction to Engineering Design (IED) with a “C” or higher or current teacher approval and successful completion of Algebra I**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

**Weighted: 0.75**

## Technology & Engineering

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
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### Materials and Process

Geometry in Construction-Construction (Y) Home Maintenance (S) Metals I (S) Metals II (S) Woodworking I (S) Woodworking II (S)	Advanced Woodworking (Y) Advanced Metals (Y) Geometry in Construction-Construction (Y) Home Maintenance (S) Metals I (S) Metals II (S) Woodworking I (S) Woodworking II (S)	Advanced Woodworking (Y) Advanced Metals (Y) Geometry in Construction-Construction (Y) Home Inspection (S) Home Maintenance (S) Independent Study in Technology & Engineering (S) Metals I (S) Metals II (S) Woodworking I (S) Woodworking II (S)	Advanced Woodworking (Y) Advanced Metals (Y) Cadet Teaching (S) Geometry in Construction-Construction (Y) Home Inspection (S) Home Maintenance (S) Independent Study in Technology & Engineering (S) Metals I (S) Metals II (S) Woodworking I (S) Woodworking II (S)
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### Communications

Drafting I (S) Drafting II (S) Graphic Design (S)	Drafting I (S) Drafting II (S) Graphic Design (S)	Drafting I (S) Drafting II (S) Graphic Design (S)	Cadet Teaching (S) Drafting I (S) Drafting II (S) Graphic Design (S) Independent Study in Technology & Engineering (S)
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### Computer Technology

Computers and Networks (S) Game Programming & Multimedia Design (S) Graphic Design (S)	Computers and Networks (S) Game Programming & Multimedia Design (S) Graphic Design (S) Robotics (Y)	Computers and Networks (S) Game Programming & Multimedia Design (S) Graphic Design (S) Robotics (Y)	Cadet Teaching (S) Computers and Networks (S) Game Programming & Multimedia Design (S) Graphic Design (S) Independent Study in Technology & Engineering (S) Robotics (Y)
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#### Legend:

**S = Semester**

**Y = Year**

### **Advanced Metals – H4055**

Advanced Metalworking provides skilled metalworking students the opportunity to work on independent and self-designed projects. Students will also develop higher level skills and techniques with machine tools. Students successfully completing this course are prepared to move into welding, machining and other industry related fields. This course has a materials fee for projects which students will take home. (Typical materials costs for this course are a minimum of \$30)

**Prerequisite: Successful completion of Metals II or teacher approval**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

### **Advanced Woodworking – H4040**

Advanced Woodworking provides skilled woodworking students the opportunity to work on independent and self-designed projects. Students will also develop higher level skills and techniques with machine tools. Students successfully completing this course are prepared to move into cabinet making and other industry related fields. This course has a materials fee for projects which students will take home. (Typical materials costs for this course are a minimum of \$50)

**Prerequisite: Successful completion of Woods II or teacher approval**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

### **Cadet Teaching – Technology & Engineering – H4400**

Cadet Teaching gives the student the opportunity to participate in many activities that will both familiarize him/her with the teaching process as well as strengthening his/her own technology skills. The student will help prepare lessons, tests and lab experiences. Concepts of teaching methods and classroom management will be taught and developed throughout the course. The cadet teacher will also assist small groups of students as a practicum experience.

**Prerequisite: Application approval**

Open to: 12

Credit: ½ Unit – One Semester (elective); Career Path: Human Services

### **Computers and Networks – H4200**

In Computers and Networks, students learn basic computer architecture and operation, software packages and usage, consumer maintenance practices, network topologies, and network hardware. The student will gain knowledge and experience through a series of daily hands-on collaborative experiments.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Drafting I – H4100**

Drafting I introduces students to the principles of design that are the foundation of drafting skills. Students in Drafting I will learn storyboarding, mechanical drawing techniques, and Computer Aided Design software. Students will complete a variety of drafting projects, including modeling and prototyping.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Drafting II – H4105**

Drafting II further develops students' understanding of the principles of design as well as more advanced drafting skills. Students in Drafting II will expand their knowledge of storyboarding, mechanical drawing techniques, and Computer Aided Design software. Students will identify an area of interest within drafting and develop drafting skills and projects specific to that area.

**Prerequisite: Successful completion of Drafting I or teacher approval**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Game Programming and Multimedia Design – H4225**

Game Programming and Multimedia Design will introduce the student to the concepts of programming for the 21st century. Throughout this course, the student will be introduced to programming tools that will enable them to create computer animations. The student will discover how to blend traditional problem-solving techniques with contemporary Hollywood-style story-boarding to create 3-D virtual worlds. This course provides an introduction to object-oriented programming in a 3D graphical programming environment. This is a project based course.

**Prerequisite: Successful completion of Graphic Design or Computer Art Studio is strongly recommended**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Geometry in Construction–Construction – H2231**

NOTE: The student must also be concurrently enrolled in Geometry-Geometry in Construction course.

This course is one part of the combined Geometry in Construction course. Through hands-on learning experiences and the building of an actual structure, the student will apply geometry concepts to a variety of construction processes in order to see the connection between the two. The student will gain a hands-on understanding of basic construction methods, construction safety, and the variety of tools needed for different construction tasks. Through this course, the student will be exposed to a variety of construction trades and the skills needed to succeed in the construction industry. This contextual learning experience allows the student to see a variety of geometry concepts used in a real-world setting. The student will be enrolled in two courses and receive both a Practical Arts and a Geometry credit.

**Prerequisite: Any Algebra I Course; Concurrently enrolled in Geometry in Construction-Geometry**

Open to: 9,10, 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

### **Graphic Design – H4220**

Graphic Design introduces the student to the process of creating and developing original graphic images and enhancing images that have been electronically generated using various computer hardware and software tools. The student develops skills in motion graphics development, visual design principles and other related technical subjects.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Home Inspection – H4045**

Students in the Home Inspection course will study the standards and techniques employed by residential home inspectors. Students who successfully complete this course will possess the information needed to take the national home inspector's certificate exam (applicants for the exam must be 18). Topics in the course include roof, foundations, HVAC, plumbing, electrical, attic, and interior inspection, as well as other inspection categories.

**Prerequisite: Successful completion of Home Maintenance or Construction (Geometry in Construction) or teacher approval**

Open to: 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Home Maintenance – H4000**

Students in Home Maintenance are introduced to plumbing, electrical, carpentry, and basic home tool safety and use. This course prepares students for both home ownership and general home repair. This course also prepares students who are interested in a construction, plumbing, electrical, carpentry, or home repair career pathway.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Independent Study in Technology & Engineering – H4350**

Independent Study in Technology & Engineering is designed for the student who has strong core skills in a Technology & Engineering field and is motivated to pursue independent and self-designed projects with the guidance of a teacher. Students interested in Independent Study must submit an application including a proposed plan of study.

**Prerequisite: Successful completion of a Technology & Engineering course and application process**

Open to: 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Metals I – H4050**

Metals I provides students the opportunity to explore metalworking basics, with an emphasis on safety and tool usage. Students in level I will be introduced to tools, finishing techniques, materials, and processes through the completion of individual projects. This course has a materials fee for projects which students will take home. (Typical materials costs for this course are a minimum of \$20)

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Metals II – H4051**

Metals II provides metals students the opportunity to work on independent projects. Building upon Metals I, students in level II will utilize new tools and develop new finishing techniques. Metals II develops students' ability to problem solve and work more independently. This course has a materials fee for projects which students will take home. (Typical materials costs for this course are a minimum of \$30)

**Prerequisite: Successful completion of Metals I or teacher approval**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Robotics – H4227**

Robotics is a hands-on learning experience in which students combine theory and practice. Students in Robotics will design, build, wire, and program functioning robots. They will learn marketing, soft skills, goal-setting, and time-management as they explore all facets of the business of technology. Students in Robotics will have the option to compete in regional and national competitions and may become members of TSA/Robotics club.

**Prerequisite: Successful completion of or concurrent enrollment in Personal Finance recommended**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters (Practical Arts)

### **Woodworking I – H4030**

Woodworking I provides students the opportunity to explore woodworking basics, with an emphasis on safety and tool usage. Students in level I will be introduced to tools, finishing techniques, materials, and processes through the completion of individual projects. This course has a materials fee for projects which students will take home. (Typical materials costs for this course are a minimum of \$20)

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

### **Woodworking II – H4035**

Woodworking II provides woodworking students the opportunity to work on independent projects. Building upon Woodworking I, students in level II will develop new tool and finishing techniques. Woodworking II develops students' ability to problem solve and work more independently. This course has a materials fee for projects which students will take home. (Typical materials costs for this course are a minimum of \$30)

**Prerequisite: Successful completion of Woodworking I or teacher approval**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Practical Arts)

## Theatre

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Acting (S) Intermediate Acting (S) Theatre Appreciation (S)	Acting (S) Intermediate Acting (S) Musical Theatre (S) Theatre Appreciation (S) Theatre Stagecraft I (S) The Stage (S)	Acting (S) Advanced Acting (S) Intermediate Acting (S) Musical Theatre (S) Theatre Appreciation (S) Theatre Stagecraft I (S) Theatre Stagecraft II (S) The Stage (S) Theatre Workshop (S)	Acting (S) Advanced Acting (S) Cadet Teaching (S) Independent Study in Theatre (S/Y) Independent Study-Theatre (S) Intermediate Acting (S) Musical Theatre (S) Theatre Appreciation (S) Theatre Stagecraft I (S) Theatre Stagecraft II (S) The Stage (S)
<b>Legend:</b> <b>S = Semester</b> <b>Y = Year</b>			

### Acting – H7155

The student will be introduced to acting through a wide range of theatrical trends and acting styles. Daily activities include acting games, improvisation, actor training techniques, and scene work. The student will explore the theatrical world, play production, and script exploration.

**Prerequisite: None**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Fine Arts). May be taken for elective credit as many semesters as desired*

### Advanced Acting – H7160

This advanced course in Acting will continue to expose the students to develop a personal understanding of diverse cultures and theatrical communication. Through a wide variety of performance experiences, the student will explore character development, accents and dialects, script analysis and classical as well as contemporary literature. The student continues the exploration of the theatrical world, play production, and script exploration. This course is for the student with previous acting training who has met the established criteria.

**Prerequisite: Acting or Intermediate Acting. Placement based on established criteria.**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Fine Arts)*

### Cadet Teaching – Theatre – H7186

This course gives the student the opportunity to participate in many activities that will both familiarize them with the teaching process as well as strengthen their own theatre skills. The student will develop the leadership and organizational skills needed in any working environment.

**Prerequisite: Application approval**

*Open to: 12*

*Credit: ½ Unit – One Semester (elective)*

### Independent Study in Theatre – H7180

This course is designed for the advanced student possessing a high degree of independence and responsibility. Selected projects and/or programs must be worked out by student, instructor and department chairperson prior to approval, followed with approval by chairperson and principal.

**Prerequisite: Instructor approval**

*Open to: 12*

*Credit: ½ Unit – One Semester (elective)*

### **Intermediate Acting – H7157**

The student will build upon previously studied acting techniques through a wide range of theatrical trends and acting styles. Daily activities include acting games, improvisation, actor training techniques, and scene work. The student continues the exploration of the theatrical world, play production, and script exploration. This course is for the student with previous acting training who has met the established criteria.

**Prerequisite: Acting or previous theatre coursework - Placement based on student meeting established criteria**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts).

### **Musical Theatre – H7190**

Musical Theatre class is an exploration of American Musical Theatre. Students will study the work of the actor/singer/dancer and use their gained knowledge to develop as performers. Students will prepare and present as soloists as well as members of small groups and larger ensembles. Students will prepare material for class presentation and critique. There will also be a focus on the audition process as well as musical theatre history and repertoire.

**Prerequisite: Advanced Acting or Auditioned Choir. Placement based on established criteria.**

Open to: 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **The Stage – H7175**

The Stage is an advanced course for the serious student of theatre and music (vocal, instrumental) performance and production. Students will run their own Production Company which will produce a show (musical, children's theatre, scene work, one acts, and/or opera) while exploring all aspects of show production. These aspects include performance, marketing, set and lighting design, ensemble building, and specialized training. The production company will seek out performance opportunities.

**Prerequisite: Advanced Acting, Theatre Stagecraft, and/or Musical Theater or Instructor Permission**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Theatre Appreciation – H7150**

Students will explore the history of Theatre's significance in society through unique hands on learning experiences. This course will view society through the lens of theatre's influence on cultural development and revolution including topics of Civil, Women's, Cultural, LGBTQ, Religious, and Human Rights. Students will have the opportunity to create and may attend live performances.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Theatre Stagecraft I – H7165**

The student will gain experience in set construction as they work on the Theatre Department's current theatrical production. In addition, the student will be able to explore, painting techniques, and technology use in the theatre.

**Prerequisite: None**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Theatre Stagecraft II – H7170**

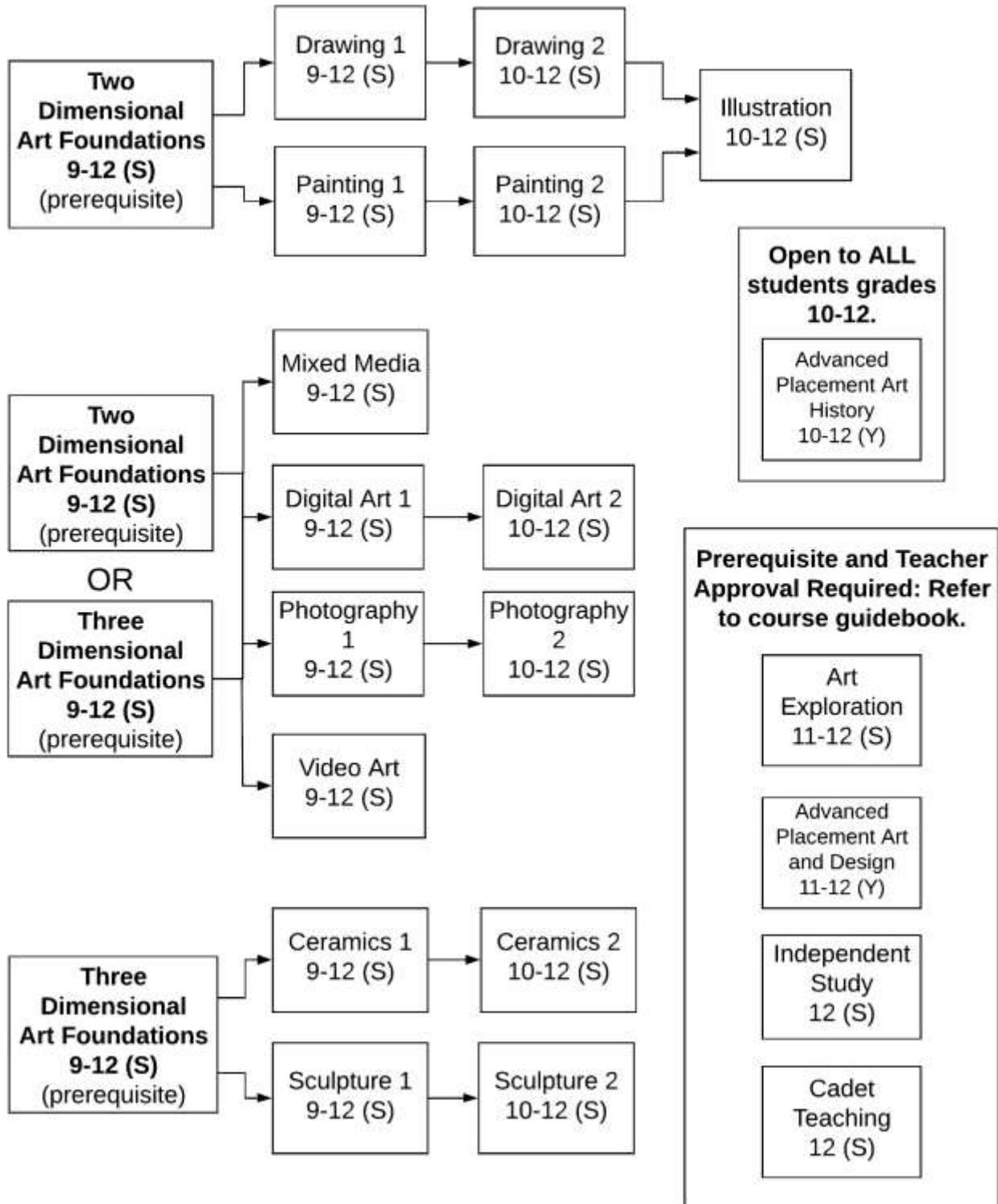
The student will build on previous stagecraft experience to explore an understanding of, operation, and management of the scene shop, as well as studying different and advanced techniques of theatrical productions.

**Prerequisite: Theatre Stagecraft I**

Open to: 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

# Visual Art Classes Flow Chart



### **Advanced Placement Art & Design – H7125W**

The Advanced Placement Art & Design program is a yearlong class that consists of three different course options. AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing are courses that correspond to college foundations courses. Students may choose to submit any or all of the AP Portfolio Exams. Students will create a body of work that demonstrates inquiry and process documentation through development of materials, processes, ideas and written information over the course of a year. Students submit portfolios for evaluation based on specific criteria guided by current AP College Board documentation. This course has a \$20 lab fee. AP Art and Design course options:

#### **AP 2-D Art and Design**

This yearlong course will develop your skills in a two-dimensional medium such as graphic design, photography, collage, printmaking, and others as you learn the principles of 2-D design. You'll create artwork that reflects your own ideas and skills and what you've learned.

#### **AP 3-D Art and Design**

This yearlong course develops your skills in a three-dimensional medium such as sculpture, architectural models, metal work, ceramics, glass work, and others as you learn the principles of 3-D design. You'll create artwork that reflects your own ideas and skills and what you've learned.

#### **AP Drawing**

Develop your skills in drawing as you explore different media and approaches. You'll create artwork that reflects your own ideas and skills and what you've learned

**Prerequisite: Successful completion of 2-D or 3-D Art Foundations. Student must demonstrate the understanding of high school art courses aligned with the specific portfolio option (2-D, 3-D, or Drawing). The student should be proficient in the elements of art, principles of design, artistic process, material understanding, media techniques, and idea development. The student's art portfolio and application must be submitted and accepted by the AP Art & Design teacher.**

Open to: 11, 12

Credit: 1 Unit – Two Semesters consecutive in the same year. (Fine Arts) Course may be repeated with a different AP content area

**Weighted: 1.0**

### **Advanced Placement Art History – H7126W**

The Advanced Placement Art History course is a college level art history course that will prepare the student for the AP Art History exam. This course will explore the history of art across the globe from prehistory to the present. By analyzing works of art through observation, discussion, reading, and research, students will learn the following skills:

- Evaluating works of art from different eras and cultures
- Developing a theory about the meaning of a work of art and explaining and supporting their interpretation
- Seeing connections to artistic traditions, styles, or practices in a work of art

No prior experience in art or art history is needed, but the course requires a strong commitment to academic work. The student is encouraged to take the AP Art History exam in May.

Advanced Placement credit offered.

**Prerequisite: Students who are successful in AP Art History must be strong independent readers and organized writers. Students must be motivated, able to complete college-level course work, and comprehend college level reading.**

Open to: 10, 11, 12

Credit: 1 Unit – Two Semesters consecutive in the same year (Fine Art or elective credit)

**Weighted: 1.0**

### **Art Exploration – H7124**

Art Exploration students will individually communicate a visual idea in a series of at least six works of art that are developed in collaboration with the student and teacher. The student will choose the subject, content, style, media, and techniques that accommodates a personalized theme upon teacher approval. This course will be a continuation of artistic concepts explored in previous art courses. A student must submit a portfolio demonstrating prior knowledge of media techniques and the understanding of design concepts when applying for this course. This course has a \$10 lab fee.

**Prerequisite: Application approval with portfolio submission**

Open to: 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Cadet Teaching – Visual Arts – H7130**

Cadet Teaching gives the student the opportunity to participate in many activities that will both familiarize him/her with the teaching process as well as strengthening his/her own Visual Art skills. The student will help prepare lessons and visual aids. The cadet teacher will also assist small groups of students.

**Prerequisite: Grade “B” or better in previous applicable Visual Art classes and approval of art classroom teacher and department chair.**

Open to: 12

Credit: ½ or 1 Unit – One or Two Semesters (elective)

### **Ceramics I – H7050**

Ceramics I exposes students to multi-dimensional learning opportunities from planning and problem solving, size proportions, constructing planned ideas, and understanding glaze reactions during the firing process. This advanced study of ceramics investigates the history of clay by researching past historical cultures and their clay building techniques through hand constructed projects and assessments. An exposure to ceramics provides the student exploration with pinch, coil, and slab construction as the student addresses and synthesize the issues of function, decoration, and aesthetics. In addition, the student will critically analyze, in written form, works of art they view outside the classroom. This course has a \$10.00 lab fee.

**Prerequisite: 3-D Art Foundations**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Ceramics II – H7060**

Ceramics II builds on the skills learned in Ceramics I. This course investigates advanced hand building techniques and provides opportunities to practice and develop skills using the pottery wheel. Emphasis on form, craftsmanship and surface decoration are explored in more critical depth. The student is expected to demonstrate problem-solving skills during construction of ceramic objects and show design skills. The student is required to critique several ceramic pieces outside of class and write a report demonstrating knowledge of art criticism. This course has a \$10.00 lab fee.

**Prerequisite: 3-D Art Foundations and Ceramics I**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Digital Art I – H7115**

This course is designed for the student who is interested in the area of digital art. It provides practical applications for a variety of projects to explore computer-generated designs. The student will be introduced to professional graphic design programs in the Adobe Creative Suite, including Photoshop, Illustrator, and InDesign. Students will become familiar with the many different careers and roles in the fields tied to digital media. Drawing skills and an interest in design layout will be helpful. This course has a \$10 lab fee.

**Prerequisite: 2-D or 3-D Art Foundations**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Digital Art II – H7116**

Digital Art II is a continuation of Digital Art I that further develops the students' skills to generate digital art. The course is for students interested in pursuing creative arts, or a career in digital arts. Digital Art II will address the art elements, principles of design, and compositional solutions to make computer art. The student will become proficient in the professional graphic design programs of Adobe Creative Suite, including Photoshop, Illustrator, and InDesign. This course has a \$10 lab fee.

**Prerequisites: 2-D or 3-D Art Foundations and Digital Art I**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Drawing I – H7010**

This course extends beyond the drawing knowledge that was introduced in Two-Dimensional Art Foundations. It examines how artists use the elements of art, mark-making approaches, light and shade, and composition used in drawing. The student will observe and draw various subject matters. Students will learn drawing techniques and processes with a variety of drawing materials. The students will learn about the countless benefits and inventive possibilities within drawing. This course has a \$10.00 lab fee.

**Prerequisite: 2-D Art Foundations**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Drawing II – H7020**

Drawing II students will use advanced drawing techniques and processes by exploring a variety of drawing media and subjects. The students will have opportunities to develop more creative and imaginative drawings. Observation, perception, and problem solving skills will be used to develop representational drawings. Inspiration from past and contemporary artists will be used to examine the countless drawing possibilities. There is a \$10 lab fee for this course.

**Prerequisite: 2-D Art Foundations and Drawing I**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Illustration – H7118**

Students will explore the primary uses, methods, and possibilities of illustration. Students will view traditional illustration techniques in drawing, painting, and printmaking while creating visual interpretations of concepts, processes, and stories. A variety of brainstorming and research activities will aid in the creation of strong visual messages. This course builds upon the knowledge gained in Drawing II or Painting II. There is a \$10 lab fee.

**Prerequisite: Drawing II OR Painting II**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

### **Independent Study in Visual Arts – H7120**

This course is designed for the student possessing a high degree of independence and responsibility who desires to investigate topics beyond regular course work. The course objectives, outline, and evaluation procedures must be developed by the student and approved by parent/guardian, teacher and submitted to the department chairperson prior to enrollment. There is a \$10 lab fee for this course.

**Prerequisite: Application approval**

Open to: 12

Credit: ½ Unit – One Semester

### **Mixed Media – H7090**

This course provides a variety of hands-on design projects in relation to contemporary and historic culture. Students will have the opportunity to use the knowledge gained from their art foundation classes to create projects from a variety of materials. The student will be introduced to the areas of surface design, decorative arts, and fiber arts. Cultural research and global connections will be explored. This course has a \$10.00 lab fee. It is beneficial to have both 2-D and 3-D Art Foundations prior to taking this course.

**Prerequisite: 2-D Art Foundations or 3-D Art Foundations**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Fine Arts)*

### **Painting I – H7030**

This course builds on foundational painting skills with an emphasis on techniques in tempera, watercolor, acrylics, and mixed media. The art elements and principles of design will be used with emphasis on color, composition, and drawing as they relate to painting. Themes relating to art history will also be incorporated along with criticism and aesthetic awareness. In addition, students will be involved in research and written assignments. This course has a \$10.00 lab fee.

**Prerequisite: 2-D Art Foundations – Drawing skills are recommended**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Fine Arts)*

### **Painting II – H7040**

Painting II presents new challenges to the student who has succeeded in Painting I by exploration of broader media and concepts. Further exploration of acrylic, watercolor, and mixed media painting will be included in this course. Students will have increased choice in technique, style, and media as they produce meaningful and conceptual works of art. Studying contemporary and historical painters will help students recognize the important role of artists in culture throughout time. This course has a \$10.00 lab fee.

**Prerequisite: 2-D Art Foundations and Painting I**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Fine Arts)*

### **Photography I – H7070**

Photography provides us with a record of life and insight into humanity. The student will learn the history of this technologically changing medium, investigate careers in photography, critique photography as an art form, and learn basic concepts of traditional photography, digital photography, and darkroom techniques. They will study the operation of cameras with creative exposure controls, learn correct digital image capture procedures, and print their images. Good composition and design will be stressed. This course has a \$10 lab fee.

**Prerequisite: 2-D Art Foundations or 3-D Art Foundations**

*Open to: 9, 10, 11, 12*

*Credit: ½ Unit – One Semester (Fine Arts)*

### **Photography II – h7080**

The student will learn advanced picture taking techniques. They will study photo law and the ethics involved with the manipulation of images. The student will make high contrast images, toned images, and hand colored photos. Emphasis will be on producing professional looking prints to be displayed. The student will research the history of famous photographers and write a critique of their artwork. This course has a \$10 lab fee.

**Prerequisite: 2-D Art Foundations or 3-D Art Foundations and Photography I. Digital camera with manual programming modes recommended.**

*Open to: 10, 11, 12*

*Credit: ½ Unit – One Semester (Fine Arts)*

### **Sculpture I – H7100**

Sculpture is a studio emphasis art course enriched with content from art history, art criticism, and aesthetics. A number of units will be addressed beginning with an exploration of materials such as clay, plaster, paper, adhesives, etc., sculptural artwork, artists, societal influences, and artistic expression. This

study is followed by instruction that focuses on the student's development of their own ideas in sculptural form. Within the course, the student is presented with a variety of media and techniques used to form relief and sculpture-in-the-round. This course has a \$10 lab fee.

**Prerequisite: 3-D Art Foundations**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

**Sculpture II – H7101**

Sculpture II builds on the skills learned in Sculpture I with an emphasis on student choice of materials and techniques. Sculpture II is a studio art course enriched with content from art history, art criticism, and aesthetics. A number of units will be addressed beginning with a sustained investigation of materials, such as clay, plaster, paper, adhesives, etc., sculptural artwork, artists, societal influences, and artistic expression. This course incorporates instruction that focuses on self-awareness, development of the students' ideas, and constructing small and large scale forms. This course has a \$10 lab fee.

**Prerequisite: 3-D Art Foundations and Sculpture I**

Open to: 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

**Three-Dimensional Art Foundations – H7005**

Three-Dimensional Art Foundations is an introductory-level course that provides a solid foundation in the fundamentals of 3-D art, as well as an understanding of aesthetics, art criticism and art history. The student will work with the basic art elements and principles of design while concentrating on 3-D art forms such as ceramics, sculpture and applied design. A variety of media will be incorporated throughout the course. This course has a \$5.00 lab fee.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

**(For a full art experience, it is recommended that 9<sup>th</sup> graders take both 2-D Art Foundations and 3-D Art Foundations)**

**Two-Dimensional Art Foundations – H7000**

Two-Dimensional Art Foundations is an introductory-level course that provides a solid foundation in the fundamentals of 2-D art production, as well as an understanding of aesthetics, art criticism, and art history. The student will work with the art elements and principles of design while concentrating on 2-D art forms such as drawing, design, printmaking and painting. A variety of media will be incorporated throughout the course. Two-Dimensional Art Foundations satisfies the prerequisite requirements for Drawing I, Painting I, Photography I, Mixed Media and Digital Art I. This course has a \$5.00 lab fee.

**Prerequisite: None**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

**(For a full art experience, it is recommended that 9<sup>th</sup> graders take both 2-D Art Foundations and 3-D Art Foundations)**

**Video Art – H7007**

Video Art will explore the essential skills necessary to be successful in the preproduction, production and post-production of video design. Students will be introduced to the artistic and technical evolution of video production. An emphasis on camera functions and computer editing will be stressed. Editing will include audio enhancements and how audio affects the production. In this hands-on class, students will become familiar with the many different careers and roles in the field of audio/video production. This course has a \$10 lab fee.

**Prerequisite: 2-D or 3-D Art Foundations**

Open to: 9, 10, 11, 12

Credit: ½ Unit – One Semester (Fine Arts)

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