Mehlville School District
Individually Focused. Committed to All.

Career and Course Planning Guide

2019-2020
Mehlville School District
3120 Lemay Ferry Road
St. Louis, MO 63125
(314) 467-5000

Board of Education
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Dr. Brian Smith

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: Dr. Denise Swanger
Assistant Principal: Jason Landherr
Assistant Principal: Andrew Ross
Assistant Principal: Greg Ruzicka

Oakville High School (OHS)
5557 Milburn Road
St. Louis, MO 63129
(314) 467-7000
Principal: Jan Kellerman
Assistant Principal: Brian Brennan
Assistant Principal: Jason Buatte
Assistant Principal: Casey Olearnick
Dear Students and Parents/Guardians,

The faculty and staff at Mehlville 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 education. 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 four year high school 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.

Mehlville 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 Personal Plan of Study.

Please review this planning guide carefully. Mehlville 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,

Denise Swanger, PhD.  Jan Kellerman  
Principal, Mehlville High School  Principal, Oakville High School
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.

1. Talk with counselors concerning your abilities, interests, and future goals.
2. Check graduation diploma requirements (see page 4).
3. Read and study this planning guide.
4. Talk with each of your present teachers concerning courses for next year.
5. Request help from your parents.
6. Read and study the Scheduling Procedures (see page 17).
7. Talk with your friends about the courses.
8. Go through scheduling.

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

Diploma Requirements
English Language Arts – 4 Units
Social Studies – 3 Units
Mathematics – 3 Units
Science – 3 Units
Fine Arts – 1 Unit
Foreign Language or Second Fine Arts – 1 Unit
Practical Arts – 1 Unit
Physical Education – 1 Unit
Health – ½ Unit
Personal Finance – ½ Unit

Total Required Units - 18
Electives (chosen from any area) - 7

Total Graduation Units - 25

Earning Credit
1) 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.

2) 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 Virtual Instruction Program (MoVIP); 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.

3) 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.

4) 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.

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

6) The district will award credit to the student who can demonstrate mastery of competencies for a particular course by successfully completing a district-approved mastery assessment tool.

7) 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.

**Board Policy IKF**

**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, including those home-schooled 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.

Missouri Course Access Program (MOCAP)
Because virtual instruction can be an effective education option for some students, there may be courses available either through a district-provided virtual option or through the Missouri Course Access Program (MOCAP). Students and families that are interested in virtual coursework should contact their student’s school counselor and inquire about our virtual program options and MOCAP.

Out-of-District Instruction/Correspondence Courses
For the purposes of this policy, an “accredited school” is the Missouri Virtual Instruction Program (MoVIP); 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 (79-79) = 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=3.74, 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.
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, written 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, written permission of the student is required. A member of the Guidance and Counseling staff will be available Monday through Friday from 7:00 a.m. to 3:30 p.m.

The MHS and OHS Web sites (accessed through mehlvilleschooldistrict.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.

1. 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.

2. 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.

3. 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.
4. 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.

5. 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.

6. 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.

7. 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.

8. 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.
Minimum Admission Requirements for Missouri Four Year Public Colleges and Universities

The Coordinating Board for Higher Education recommends the following core curriculum for admission to all public four year colleges and universities. Some schools may establish even more stringent minimums. Check each potential college Website for the college’s admission requirements.

English Language Arts – 4 Units
English Language Arts coursework emphasizes college preparatory composition, research skills, analysis of literature and other content of comparable. Speech and Debate courses may be included.

Mathematics – 3 or 4 Units
Mathematics coursework emphasizes College Preparatory Algebra and other content of comparable rigor. The student who completes Algebra prior to the freshman year would be expected to complete three additional units in grades 9-12.

Science – 3 Units
Science coursework emphasizes College Preparatory Biology, Chemistry, and other content of comparable rigor. Science coursework should include at least one laboratory course.

Social Studies – 3 Units
Social Studies coursework emphasizes American History, Missouri Government and Missouri History as required by state statute, Geography/World Civilizations, and other content of comparable rigor.

Fine Arts – 1 Unit
Fine Arts coursework emphasizes Visual Arts, Instrumental or Vocal Music, Dance, Theater, or other content of comparable rigor. Critical analysis, theory or “appreciation” courses may be included.

Additional Coursework – 3 Units
The Missouri public high school student is required by the State Board of Education to complete units in Practical Arts (1), Physical Education (1), Health Education (1/2) and Personal Finance (1/2).

Electives – 7 Units
The student should complete at least three elective units total in Foreign Language and/or other courses within high school core content areas. Two units of a single Foreign Language are strongly recommended.
Early College Opportunities

Dual Enrollment

Dual Enrollment Courses enable a high school student 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. The student must meet with a school counselor to fill out the appropriate paperwork and verify they meet the college requirements.

College Dual Credit Courses

College 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:

1. The student must have permission to participate from a designated school official (principal, counselor, or dual credit coordinator).
2. 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.
3. 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.
4. 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.
5. The freshmen student must have a minimum cumulative un-weighted GPA of 3.0 on a 4.0 scale, score at the 90th 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.

- Accounting II – Missouri Baptist University (MHS)
- Advanced Acting – UMSL (OHS)
- Advanced Marketing – Missouri State University
- Anatomy and Physiology – Lindenwood University (MHS)
- Anatomy and Physiology – UMSL (OHS)
- AP Biology – UMSL (MHS) SLU (OHS)
- AP Calculus - St. Louis University (MHS), Missouri Baptist University, UMSL
- AP Chemistry – Missouri Baptist University (MHS), UMSL (OHS)
- AP English Language and Composition – UMSL (OHS)
- AP French – St. Louis University (MHS)
- AP German – St. Louis University (MHS)
- AP German – UMSL (OHS)
- AP Spanish – St. Louis University (MHS)
- AP Spanish – UMSL (OHS)
- AP United States History – Missouri Baptist University (MHS), SLU (MHS), and UMSL
- Bosnian American Studies – Fontbonne University
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 History
AP Biology
AP Calculus
AP Chemistry
AP English Language and Composition
AP English Literature and Composition
AP European History
AP French Language and Culture
AP German
AP Human Geography
AP Macroeconomics
AP Microeconomics

AP Music Theory
AP Physics
AP Psychology
AP Spanish Language and Culture
AP Statistics
AP Studio Art - Drawing
AP Studio Art – 2D Art and Design
AP Studio Art – 3D Art and Design
AP United States Government and Politics
AP United States History
AP World History
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.

Introduction to Engineering Design
Principles of Engineering
Digital Electronics
Aerospace Engineering
Civil Engineering and Architecture
Engineering Design and Development
Principles of Biomedical Sciences

Human Body Systems
Medical Interventions
Biomedical Innovation
Computer Science Principles
Computer Science A
Cybersecurity

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:

1. Achieve junior or senior status at the high school. Course work taken during the freshmen or sophomore year can be eligible if part of a sequence.
2. Earn a grade of 80% or higher in articulated courses taken at MHS and OHS.
3. 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:

<table>
<thead>
<tr>
<th>High School Course Work</th>
<th>St. Louis Community College Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting I &amp; II</td>
<td>ACC: 100 Applied Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Child Development I &amp; II</td>
<td>ECE: 125 Child Growth &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>Foods I</td>
<td>CUL: 101 Safety &amp; Sanitation (Food Safe Certificate Required)</td>
<td>1</td>
</tr>
<tr>
<td>Foods II</td>
<td>CUL: 105 Food Preparation Theory (credit by exam)</td>
<td>3</td>
</tr>
<tr>
<td>Foods III</td>
<td>CUL: 110 Food Preparation Practical I (credit by exam)</td>
<td>3</td>
</tr>
</tbody>
</table>

MSDR9 Early College Academy
The MSDR9 Early College Academy (ECA) is an application-based, early-entrance-to-college program located on the campus of STLCC- South County. The student chooses to attend the MSDR9-ECA for two years, replacing 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 as well as a high school diploma. The student must meet with a school counselor to fill out the appropriate paperwork and verify they meet the program requirements.
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:
1. To ensure each student graduates from high school.
2. To ensure each student completes a selection of high school studies that is challenging and has identified measurable learner outcomes.
3. 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:
1. Financial incentives to attend any Missouri public community college or vocational-technical school.
2. Opportunities to learn about jobs and careers through business partnerships.
3. Career pathways, which link courses of study to careers and enable students to learn more about the career of their choice.
4. College credits while still in high school through articulated coursework.
5. Encouragement to attend school regularly, maintain good grades and be a good citizen.
6. Scholarships offered by a growing number of 4-year universities in Missouri to A+ certified students.

The Student Requirements of A+ Schools Program Are:
1. Sign an A+ Student Agreement.
2. Must have attended a designated A+ Schools high school for three consecutive years immediately prior to graduation.
3. Graduate from an A+ School with a cumulative grade point average of 2.5 or above on a 4.0 scale.
4. Score advanced or proficient on the Missouri Algebra 1 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:

<table>
<thead>
<tr>
<th>ACT Math Score</th>
<th>and</th>
<th>High School GPA</th>
</tr>
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<tbody>
<tr>
<td>17</td>
<td>and</td>
<td>2.5 or greater</td>
</tr>
<tr>
<td>16</td>
<td>and</td>
<td>2.8 or greater</td>
</tr>
<tr>
<td>15</td>
<td>and</td>
<td>3.0 or greater</td>
</tr>
</tbody>
</table>

5. Graduate from an A+ School with a cumulative attendance record of 95% or better.
6. 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.
7. Maintain a record of good citizenship and avoidance of unlawful use of drugs and alcohol.
8. 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.
9. If male, provide evidence of registering with the Selective Service by age 18. A student may register online at 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?
1. Identify your interests, abilities, and talents.
2. Consider the possible careers in each cluster in relationship to those interests, abilities, and talents.
3. Decide which career cluster seems to fit best.
4. Select courses that are related to the career chosen.
5. Follow your Personal Plan of Study.

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 Missouri Connections Website.

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

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**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*
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 Missouri Connections Personal Plan of Study. 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, the student is expected to maintain their course schedule for the entire school year.

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

1. The class is either above or below the student’s comprehension level as agreed to by the teacher, counselor, parent and student.
2. The student had the teacher in a previous class and failed.
3. The student had the teacher previously and there is a documented behavior conflict.

Course Fees
Any fee for supplies and materials is clearly identified in the Course Description. Some Family and Consumer Science, Technology 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

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### Special Education Studies

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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 21st 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 – 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 – 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.

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. Applications are available in the Guidance Office.
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)

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: None
Open to: 11, 12
Credit: 1 Unit Elective – Two Semesters
## Business

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<tr>
<th>General Business</th>
<th>9th Grade</th>
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<td>Introduction to Business (S)</td>
<td>Business Management (S) (10th or 11th Grade)</td>
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<td>Accounting I (Y)</td>
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<td>Fundamentals of Marketing (S)</td>
<td>Microsoft Applications (Y)</td>
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Legend:
$ = Semester
Y = Year

**Introduction to Business – 5000**
This course explains the different roles of businesses and is designed to help the student make wise economic decisions as consumers, workers and citizens. The student will improve their economic citizenship by gaining a knowledge and appreciation of the American enterprise system, and by making wise and skilled decisions in selecting and using the goods and services of businesses. The student will also explore forms of business, world trade, labor-management relations, government services and career opportunities. Through the use of various activities such as discussions, simulations and guest speakers, the student is made aware of the integral role they play in today’s society.

**Prerequisite: None**
**Open to:** 9, 10 (MHS)
9, 10, 11, 12 (OHS)
**Credit:** ½ Unit – One Semester (Practical Arts)
**Career Paths: All**

**Business Communications – 5012**
This course is designed to give the student a comprehensive view of communication and its importance in the business environment. Effective written and oral communication skills are vital to successful employment. The student will learn to communicate in a clear, courteous and concise manner on both personal and professional levels. The student will focus on principles of effective communication and build workplace communication skills: reading, writing, speaking, listening, team problem solving, interpersonal and technology. The student will gain business communication experience in both written and oral communication through engaging projects relating to real world scenarios. This course also develops an awareness of the importance of technology in regards to modern business communication. Basic keyboarding, computer and software skills will be learned and reinforced throughout the course.

**Prerequisite: None**
**Open to:** 9, 10, 11, 12
**Credit:** ½ Unit – One Semester (Practical Arts)
**Career Paths: All**
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: All

Business Management – 5020
This course is designed to help the student develop an understanding of skills and resources needed to manage a business. Instruction includes a general overview of American business, forms of business ownership, personnel management, labor-management relations, public and human relations, taxation and government regulations. The use of computers and software as tools in making business decisions in areas such as accounting, sales analysis and inventory control is also introduced.
Prerequisite: None
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Paths: All

Accounting I – 5050
The student will learn the fundamentals and principles of double-entry accounting. This course focuses on transactions, journals, ledgers and financial reports for a sole proprietorship, partnership, and corporation. Computer applications and simulations are used to reinforce understanding. This class is especially recommended for the student who plans to work in the field of accounting, plans to own or manage a business, or plans to major in business in college. The student is encouraged to enroll as 10th or 11th grader in order to take Accounting II as a 12th grader.
Prerequisite: None
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Practical Arts)
Career Paths: General Business and Accounting

Accounting II – 5060 (OHS)/5060W (MHS)
Accounting II reinforces accounting concepts and expands on topics learned in Accounting I, while adding new topics related to assets, liabilities, equities and financial analysis. Computers are used for hands-on experience. This course is available for Tech Prep College Credit and Dual Credit (MHS only).
Prerequisite: Accounting I with a “C” or higher
Open to: 11, 12
Credit: 1 Unit – Two Semesters (Practical Arts) (Dual Credit MHS only)
Career Path: Accounting
Weighted: 0.75 (MHS only)
Microsoft Applications – 5070 (OHS)/5070W (MHS)
The student will be empowered through this two-semester course to meet the challenges of a changing society. Proper operation of computer application software is vital for success in virtually every career. The student will complete projects that will implement word processing, spreadsheets, databases, Internet exploration and electronic presentation software. Additional topics include desktop publishing principles, current and emerging trends in technology, computer hardware and architecture, input/output devices, storage concepts and online ethics, safety and privacy. This course is useful to all students, especially those planning a future in the field of business and vocational careers. This course is available for Tech Prep College Credit and Dual Credit (MHS only).

Prerequisite: None
Open to: 11, 12
Credit: 1 Unit – Two Semesters (Practical Arts) (Dual Credit MHS only)
Career Paths: All
Weighted: 0.75 (MHS only)

Introduction to Web Design – 5080
Web Design will introduce the student to the fundamentals needed to develop and publish effective Web pages related to the business world. The course will enable you as a student to create a well-designed Web site that will be easy to navigate. The class will explore the use of computer animation in both multimedia projects, and for use on the Internet. It will show the difference between print and Web design. It will cover graphic and technical details along with design theory explaining what are good and bad Web designs. This course will also cover the history of the Web and why learning to design and publish a Web site can be educationally and professionally beneficial.

Prerequisite: None
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Paths: All

Advanced Web Design – 5085
Advanced Web Design introduces the student to, and focuses on, advanced techniques in Web design with particular emphasis on design elements involving layout, navigation, and interactivity using Adobe/Macromedia software. Hands-on Web design exercises will be taught using advanced aspects of Adobe/Macromedia Dreamweaver, HTML, CSS Fireworks and Photoshop. Teacher directed discussions, hands-on labs and projects will comprise the majority of lessons. Demonstrations and discussions on the Adobe-Macromedia software packages will permit the student to construct a full functioning Web site.

Prerequisite: Introduction to Web Design with a “C” or higher
Open to: 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Paths: All

Understanding Law – 5090W
This course will acquaint the student with the current legal environment, and how this will impact their life through an understanding of contractual obligations, in addition to employment law, bankruptcy law, family law and estate law. The student will also understand the relationship between the law and ethics. In examining the law, a relationship will be drawn to the Constitution of the United States. Dual Credit offered.

Prerequisite: None
Open to: 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Paths: General Business and Accounting
Weighted: 0.75
Supervised Office Experience (SOE) – 5100
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

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

Personal Finance – 5400
Understanding and managing personal finances are key to one’s future financial success. This one-semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. The student will learn how choices influence occupational options and future earning potential. The student will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving and credit decisions and to make effective use of income to achieve personal financial success.
Prerequisite: None
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Personal Finance requirement)
Career Path: Business Management and Technology

Financial Planning – 5405W
Financial Planning will help the student to better manage their resources by giving them an understanding of the financial planning process. The student will understand financial statements and the importance of these statements in the construction of a proper financial plan. In addition, the student will gain an understanding of income tax and how taxes affect their plan. Finally, the student will understand how to manage cash flow, credit, insurance needs, investments, retirement planning and estate planning. Dual credit offered.
Prerequisite: Personal Finance with a “C” or higher
Open to: 11, 12
Credit: ½ Unit – One Semester
Career Path: Business Management and Technology
Weighted: 0.75
**Business Technology – 5200W**

Business Technology is designed to bridge the transition from school to work. This course covers the basic concepts of networked microcomputers, including the basics of file management, electronic mail, Internet browsers, and web page development. The student is also exposed to applications used in problem solving, communication, and making informed decisions, including word processors, presentation software, electronic spreadsheets and databases. The characteristics of computer hardware and software used in implementing various applications are considered. This course satisfies the University of Missouri's required core course for the student enrolled in Information Systems or Business. Dual Credit is available for this course.

**Prerequisite:** Priority given to students enrolled in Internship

Open to: 12
Credit: 1 Unit – Two Semesters (Practical Arts)
Career Paths: Accounting and Technology

**Weighted:** 0.75

**INTERNSHIP**

An internship is the student employment portion of the Business Internship Program. Businesses are used as training stations for practical application of the knowledge and skills being taught in the classroom. The teacher works with the employer in developing and implementing a training plan for the student. A student's grade for internship is based on their job performance and written assignments related to classroom instruction. Seniors interested in Internship must submit a written application, meet the prerequisites (if applicable) and meet established selection criteria.

**Internship in Business – 5345**

The student will normally work in an office environment while applying the skills being taught in the classroom. Employment opportunities associated with the internship experience include, but are not limited to: receptionist, administrative assistant, billing clerk, file clerk, bank teller and data processing clerk. To earn credit for their internship, the student works a required minimum number of hours during the school year and completes written assignments related to their internship experience.

**Prerequisite:** Current enrollment in approved upper-level business class and application approval. Priority given to the student enrolled in Business Technology.

Open to: 12
Credit: 1 to 2 Units – Two Semesters (Practical Arts)
Career Paths: Business Management and Technology
## Marketing

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<td>Sports and Entertainment Marketing (S)</td>
<td>Social Media Marketing (S)</td>
<td>Independent Study – Marketing (Y)</td>
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**Legend:**
- S = Semester
- Y = Year
**Sports and Entertainment Marketing – 5300**
This course is designed for the student interested in sports, entertainment and event marketing. Emphasis is placed on the following principles as they apply to the industry: branding, licensing and naming rights; business foundations; concessions and on-site merchandising; economic foundations; promotion; safety and security, and human relations. Skills in communications, human relations, psychology and mathematics are reinforced in the course. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences and competitions provide many opportunities for application of instructional competencies. Throughout the course, the student is presented problem-solving situations for which they must apply academic and critical thinking skills.

**Prerequisite:** None  
Open to: 10, 11, 12  
Credit: ½ Unit – One Semester (Practical Arts)  
Career Path: Marketing

**Social Media Marketing – 5305**
Social Media Marketing will focus on the latest technology and platforms used by businesses to promote their products and services. Topics include social networking sites such as Facebook and LinkedIn, micro-blogging sites such as Twitter, video-sharing sites such as YouTube, blogging, mobile couponing and more. The student will learn basic skills in using this technology along with creating marketing strategies, implementing marketing plans and measuring their success. Legal implications will be discussed and case studies of businesses will be used throughout the course.

**Prerequisite:** None  
Open to: 11, 12  
Credit: ½ Unit – One Semester (Practical Arts)  
Career Path: Marketing

**Entrepreneurship and Free Enterprise – 5315W**
Entrepreneurship and Free Enterprise is designed to familiarize the student with the subject matter of business and how businesses function in a free environment. The course introduces the student to the essentials of business activities, including managing, marketing, accounting and finance. This course is designed to help the student understand the nature of various economic systems with special emphasis on the free enterprise system. Dual Credit offered.

**Prerequisite:** None  
Open to: 11, 12  
Credit: ½ Unit – One Semester (Practical Arts)  
Career Paths: Accounting and Marketing  
**Weighted:** 0.75

**Fundamentals of Marketing – 5320**
This introductory marketing course develops student understanding of distribution, financing, marketing information management, pricing, product/service management, promotion and selling. The student acquires an understanding of the need for marketing planning in such areas as identification of target markets, development of marketing strategies and implementation of marketing procedures. Throughout the course, the student is presented problem solving situations for which they must apply academic and critical thinking skills. Marketing simulations, projects, teamwork, as well as DECA leadership activities, meetings, conferences and competitions provide many opportunities for application of instructional competencies.

**Prerequisite:** None  
Open to: 10, 11, 12  
Credit: ½ Unit – One Semester (Practical Arts)  
Career Paths: General Business and Marketing
Marketing Topics – 5325
This course is an overview of marketing concepts with a further concentration of today’s marketing demands in fashion/retail merchandising, international marketing, career exploration, hospitality (which includes travel tourism), hotel and restaurant management and Internet marketing. This course will provide the student with “hands-on” marketing experience, marketing concepts and theories, and introduces present-day trends and demands in the marketing industry.

**Prerequisite:** Current teacher approval

Open to: 12
Credit: 1 Unit – Two Semesters (Practical Arts); Career Path: Marketing

Advanced Marketing – 5330W
This Advanced Marketing course continues to build on the concepts learned in Fundamentals of Marketing and Sports and Entertainment Marketing. It further develops student understanding and skill in distribution, financing, marketing information management, pricing, product/service management, promotion and selling. The focus of this course is at the management level. Opportunities are provided to apply scientific problem solving when engaged in marketing information gathering, processing and reporting. Throughout the course, the student is presented problem solving situations for which they must apply academic and critical thinking skills. The student explores career planning in the field of marketing. The student completing this course qualifies to take the ASK Institute Fundamentals of Marketing national certification test. All students participate in DECA and have opportunities to attend leadership activities, meetings, conferences and competitions which provide many opportunities for application of instructional competencies. Dual Credit offered.

**Prerequisite:** Completion of one introductory marketing course (Fundamentals of Marketing, Entrepreneurship and Free Enterprise, or Sports and Entertainment Marketing) with a “C” or higher

Open to: 12
Credit: 1 Unit – Two Semesters (Practical Arts)
Career Path: Marketing
Weighted: 0.75

Retail Marketing Management – 5335W
Retail Marketing Management is a survey of the interrelationships of industries and services that comprise the field of retailing. Topics are related to product development, retail distribution, store planning, promotional activities, merchandising practices, organizational structure and expense control. This college credit course continues to build on the concepts learned in Fundamentals of Marketing, Sports and Entertainment Marketing, and Entrepreneurship and Free Enterprise. Dual Credit offered.

**Prerequisite:** None

Open to: 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Marketing
Weighted: 0.75

Independent Study – Marketing – H5360
This course is designed to provide the student an opportunity to pursue advanced study in marketing beyond the normal curricular offerings. The student will produce an event, with agreement of the instructor, to investigate specific areas of interest based upon each individual’s needs and interest. Student participation in this program is allowed only by instructor permission. This course is offered in one semester and two semester units.

**Prerequisite:** Completion of at least one marketing course with a “C” or higher and current teacher approval

Open to: 11, 12
Career Path: Marketing
Credit: 1 Unit – Two Semesters (Practical Arts)
**Internships**

An internship is the student employment portion of the Marketing Internship Program. Businesses are used as training stations for practical application of the knowledge and skills being taught in the classroom. The teacher works with the employer in developing and implementing a training plan for the student. The student’s grade for internship is based on their job performance and written assignments related to classroom instruction. Seniors interested in Internship must submit a written application, meet the prerequisites (if applicable) and meet established selection criteria.

**Internship in Marketing – 5350**

The student works in business environments and applies skills being taught in the classroom. Academic study is combined with a paid job and supervision by the school in cooperation with a business/industry. The teacher responsible for the program conducts periodic visits to the student’s workplace in order to better correlate classroom instruction. Employment opportunities associated with this internship experience include: sales customer service, cashier, bank teller, receptionist/hostess, warehouse distribution, advertising and more. To earn credit for this internship, students work a required minimum number of hours during the school year and complete written assignments related to their internship experience.

**Prerequisite:** Current enrollment in a marketing class and application approval; priority given to students enrolled in Marketing Topics and/or Advanced Marketing

Open to: 12
Credit: 1-2 Units – Two Semesters (Practical Arts)
Career Path: Marketing

**Internship in Marketing School Store Management – 5354**

This course is an Internship component of Advanced Marketing 5300. The student who applies and is selected by the marketing instructor will manage and operate the school store that serves as a fundraiser for the DECA chapter, the high school and a chosen charitable organization. The student will learn about and actively participate in inventory control, free enterprise, personal selling, human relations and other basic marketing functions such as advertising and promotion, pricing and customer service. This class will be an excellent hands-on learning experience for all involved.

**Prerequisite:** Current enrollment in a marketing class and application approval

Open to: 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Marketing
## English Language Arts

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<td>English Classes That Meet the 4th Year Requirement:</td>
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<td>Honors English III: American Literature and Composition (MHS) (Y)</td>
<td>AP English Language and Composition (Y)</td>
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<td>Public Speaking (S)</td>
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<td>Broadcast Journalism (Y)</td>
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**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)
English I: Concepts – 0013
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 I: American Literature and Composition – 0010
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)

Honors English I: American Literature and Composition – 0020
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)

English II: World Literature and Composition - 0040
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)

Honors English II: World Literature and Composition – 0050
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)
English III: English Literature and Composition – 0070
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)

Honors English III: English Literature and Composition – 0081W (MHS)
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. See page 11 for more information about Dual Credit fees.

Prerequisite: English I and II with a “B” or higher
Open to: 11
Credit: 1 Unit – Two Semesters (English Language Arts)
Weighted: 1.0 (MHS only)

English IV: College Composition – 0101W (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. See page 11 for more information about Dual Credit fees.

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

Advanced Placement English Language and Composition – 0105W
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. See pages 11 and 12 for more information about Dual Credit and Advanced Placement fees.

Prerequisite: English I and II
Open to: 11, 12
Credit: 1 Unit – Two Semesters (English Language Arts)
Weighted: 1.0
Advanced Placement English Literature and Composition – 0110W
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. See pages 11 and 12 for more information about Dual Credit and Advanced Placement credit fees.

Prerequisite: English I and II
Open to: 11, 12
Credit: 1 Unit – Two Semesters (English Language Arts)
Weighted: 1.0

Public Speaking – 0200
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)

Debate – 0210
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)

English IV: Competitive Forensics: Composition, Debate and Public Speaking – 0215 (MHS), 0215W (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. See page 11 for more information about Dual Credit fees.

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)

Yearbook Workshop – 0300
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)
**Journalism I: News Writing and Reporting – 0310**
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).

**English IV: Journalism II – 0320**
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)

**Broadcast Journalism – 0325**
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)

**English IV: Creative Writing – 0330**
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: Media Literacy and Composition – 0410**
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: Film Analysis and Composition – 0420**
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: Mythology and Legends – 0430**
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 – 0450W**
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. See page 11 for more information about Dual Credit fees.

**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**

**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)
Bosnian American Studies – H0018W
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)

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.

Independent Study – English Language Arts – 0470
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)

Cadet Teaching – English Language Arts – 0480
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)
English Language Learners

**Beginning English ELL – 9010**
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.

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

Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (English Language Arts or Elective)

**Intermediate English ELL – 9015**
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 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)

**English I ELL – 9020**
The ELL section of English I 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 the non-native English speaker. 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)

**Clues to Reading ELL – 9025**
“Clues to Reading ELL” offers the ELL student 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 the student’s 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)
Study Skills ELL – 9030
This course is designed for the present and former ELL student who can benefit from differentiated instruction in strategies and guided practice to achieve success and independence in the upper level courses 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, test taking, reference, research and writing.

Prerequisite: Language assessment and current teacher approval
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Elective)
### Family and Consumer Sciences

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<td>Child Development I</td>
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<td>Teen Esteem (MHS only)</td>
<td>Child Development II</td>
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**Foods I – 4500**
Foods I is a beginning course designed for the student with minimum experience in food preparation. This semester course allows the student to build fundamental skills to select, store and prepare basic foods while preserving nutrients and flavor. Units of study include safe and sanitary food preparation practices, basic nutrition, cooking terms, equipment, table setting and etiquette. Teaching methods include food science lab experiences, study guides and activities, class projects and food preparation labs. These labs may include quick breads, eggs, cheese, pasta, salads, pies and cookies. This course has a $20 lab fee.

**Prerequisite: None**
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Health Services

**Foods II – 4510**
Foods II is a continuing course in foods that includes advanced food preparation and nutrition. The student applies mathematical and scientific principles while preparing a variety of foods. They are required to demonstrate proper use and care of equipment. In addition, safe and sanitary lab practices that can be applied in the home as well as the workplace will be followed. Foods studied and prepared may include meats, yeast breads, desserts, appetizers, garnishes, fruits and vegetables. The student is required to practice proper mealtime etiquette. Teaching methods include the use of the textbook, lab experiences, class discussions, audio-visual materials and classroom assignments. This course has a $25 lab fee.

**Prerequisite: Foods I with a “C” or higher or current teacher approval**
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Health Services
**Foods III – 4520**
Foods III is an advanced course designed for the experienced cook, in which the student will utilize previously acquired knowledge of food principles and preparation in the exploration of challenging concepts. Emphasis is placed on the science behind food preparation while learning new food preparation skills. Experiments requiring critical thinking skills will help the student understand the why as well as the how. Units of study include meal management, creative foods, the history and cultural influences on food choices and preparing regional foods from many favorite countries such as Italy, Mexico, Germany, France and China. Continued education or career options in the food industry will be addressed. Teaching aids used to further engage the student’s learning are: use of the textbook, study guides, audio-visual materials, laboratory experiences, projects and professional guest speakers. This course has a $30 lab fee.

**Prerequisite:** Foods I and Foods II with a “C” or higher and current teacher approval

Open to: 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Health Services

**Culinary Arts/Pro Start I – 4521**
The student will be introduced into the world of professional cooking, including training in safety and sanitation (ServSafe Certification), professionalism, food service equipment, stocks, sauces and soup, communication, management essentials, fruits and vegetables, serving customers, potatoes and grains, and careers. Lab experiences will reinforce these skills. Pro Start is a two-year industry based program that prepares the student for careers in the food service industry. This course has a $40.00 lab fee.

**Prerequisite:** Foods I with a “C” or higher or current teacher approval

Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Practical Arts)
Career Path: Human Services

**Culinary Arts/Pro Start II – 4522**
Building on the food services techniques and management skills developed in Level I, the student will study breakfast foods and sandwiches, nutrition, cost control, salads and garnishes, purchasing and inventory, meat, poultry and seafood, marketing, desserts and baked goods, sustainability and global cuisine including regional U.S., Europe, Mediterranean, Middle East and Asia. The student who successfully passes Pro Start I and Pro Start II and passes the National Pro Start Exams at the end of both courses has the opportunity to receive credit for the Missouri State University Course HRA 321 Principles of Food Preparation. This course has a $40.00 lab fee.

**Prerequisite:** Pro Start I with a “C” or higher and current teacher approval

Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Practical Arts)
Career Path: Human Services

**Sewing Fundamentals – 4530**
Sewing Fundamentals is an introductory class in basic sewing construction skills. The student will experience construction of samples and simple projects, threading the sewing machine, operating an embroidery machine and serger, and correct use of the iron. Teaching methods include use of the text, class discussion, teacher and student demonstration, audio-visual materials, displays and student projects. The student is required to provide sewing supplies.

**Prerequisite:** None

Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Arts and Communications
Intermediate Sewing – 4540
Intermediate Sewing utilizes individualized instruction with an emphasis on creativity and utilization of basic and advanced construction skills. The student will analyze fibers, yarns, fabric construction, textile finishes and design as applied to the selection of clothing and household fabrics. Teaching methods include use of the text, class discussion, teacher and student demonstrations, audio-visual materials, displays and student projects. The student is required to provide sewing supplies.
Prerequisite: Sewing Fundamentals with a “C” or higher or current teacher approval
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Arts and Communications

Advanced Sewing – Independent Study – 4550
In Advanced Sewing, the student works independently. Under the instructor’s supervision, the student is guided to create, research and construct a display, prepare a written paper and complete an advanced construction project. Discussion of goals and career paths and the integration of these interests in the projects provide a focus on the future. Teaching methods include individualized research, displays, student demonstration and projects. The student is required to provide sewing supplies.
Prerequisite: Sewing Fundamentals, Intermediate Sewing with a “C” or higher or current teacher approval
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Arts and Communications

Teen Esteem – 4560 (MHS only)
Teen Esteem is designed to offer the student the opportunity to develop self-worth. The areas explored include communication, values, decision making, goal setting, creating a positive self-image, and other pertinent teen health issues. Teaching techniques may include group discussion, professional guest speakers, audio-visual materials, individual projects and hands-on activities.
Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Human Services

Interior Design – 4600
Interior Design explores the various dimensions of selecting, planning, decorating and furnishing the places where we live. Hands-on creative projects will showcase the student’s own artistic expression. Elements and principles of design and color will be studied as they apply to the interiors and housing. The student will evaluate and draw floor plans and then create design boards to illustrate the furnishings and fabrics for project situations. Teaching techniques may include lecture/discussions, audio-visual materials, professional guest speakers, field trips and student presentations.
Prerequisite: None
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Career Path: Arts and Communications
Human Relations – 4610
Human Relations is designed to help the student understand their roles within the family and society. Units of study include family structures, relationships with parents and friends, dating issues, sexuality, love, mate selection, preparation for marriage and family crisis. Teaching methods may include use of the text, class discussions, audio-visual materials, supplemental reading, class projects and professional guest speakers.
**Prerequisite:** None
**Open to:** 11, 12
**Credit:** ½ Unit – One Semester (Practical Arts)
**Career Path:** Health Services

Child Development I – 4620
The Child Development I course is designed to acquaint the student with the responsibilities and lifestyle changes that will occur throughout one’s life. Units of study include responsibilities of parenthood, financial considerations, the reproductive process, birth defects and pregnancy, childbirth and postpartum experiences. The student will also learn about the child’s growth and development during the newborn, infancy and toddler stages. Teaching methods include use of the text, audio-visual materials, research projects, professional guest speakers and child observations.
**Prerequisite:** None
**Open to:** 11, 12
**Credit:** ½ Unit – One Semester (Practical Arts)
**Career Path:** Health Services, Human Services

Child Development II – 4630
The Child Development II course is structured to help the student gain knowledge and experience in working with the preschool child. Units of study include child care laws, safety, health issues, discipline, nutrition, development of the preschool child and a preschool practicum based upon well-known theories of child development. Teaching methods include use of the text, audio-visual, parenting magazines, resource texts and professional guest speakers. Tech Prep College Credit is available for this course.
**Prerequisite:** Child Development I and current teacher approval
**Open to:** 11, 12
**Credit:** ½ Unit – One Semester (Practical Arts)
**Career Path:** Health Services, Human Services

Cadet Teaching – Family and Consumer Science – 4640
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
### Foreign Language

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<td>French I (Y)</td>
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- Advanced Placement French Language and Culture (Y)
- Cadet Teaching (S)

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- Advanced Placement German (Y)
- Cadet Teaching (S)

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<td>Spanish II (Y)</td>
<td>Spanish III (Y)</td>
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- Advanced Placement Spanish Language and Culture (Y)
- Cadet Teaching (S)

**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.

**French I – 6010**
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 – 6020**
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 – 6030W**
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. See page 11 for more information about Dual Credit fees.

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

Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters

**Weighted: 0.75**

**French IV – 6040W**
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. See page 11 for more information about Dual Credit fees.

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

Open to: 11, 12
Credit: 1 Unit – Two Semesters

**Weighted: 0.75**
Advanced Placement French Language and Culture – 6045W
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. See page 12 for more information about Advanced Placement credit fees.

**Prerequisite:** French IV with a “C” or higher
Open to: 12
Credit: 1 Unit – Two Semesters
Weighted: 1.0

German I – 6110
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 – 6120
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 – 6130W
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. See page 11 for more information about Dual Credit fees.

**Prerequisite:** German II with a “C” or higher
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 0.75

German IV – 6140W
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. See page 11 for more information about Dual Credit fees.

**Prerequisite:** German III with a “C” or higher
Open to: 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 0.75
Advanced Placement German – 6145W
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. See pages 11 and 12 for more information about Dual Credit and Advanced Placement fees.

Prerequisite: German III with a “C” or higher
Open to: 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 1.0

Spanish I – 6210
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 – 6220
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 – 6230W
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. See page 11 for more information about Dual Credit fees.

Prerequisite: Spanish II with a “C” or higher
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 0.75

Spanish IV – 6240W
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. See page 11 for more information about Dual Credit fees.

Prerequisite: Spanish III with a “C” or higher
Open to: 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 0.75
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:** Spanish IV with a “C” or higher and current teacher approval

Open to: 12
Credit 1 Unit – Two Semesters
Weighted: 1.0

Cadet Teaching – Foreign Language – 6260
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)
## Industrial Technology

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<td>Electricity (MHS) (S)</td>
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<td>Cadet Teaching (S)</td>
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<td>Home Maintenance (S)</td>
<td>Metals II (OHS) (S)</td>
<td>Metals II (OHS) (S)</td>
<td>Advanced Woodworking (Y)</td>
<td>Cadet Teaching (S)</td>
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<td>Metals I (OHS) (S)</td>
<td>Woodworking II (S)</td>
<td>Geometry in Construction (Y)</td>
<td>Geometry in Construction (Y)</td>
<td>Independent Study Technology (ITE) Seminar (S/Y)</td>
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<td>Woodworking I (S)</td>
<td>Mechanical Drawing I (S)</td>
<td>Mechanical Drawing II (S)</td>
<td>Advanced Architectural Drawing (Y)</td>
<td>Geometry in Construction (Y)</td>
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<td><strong>Communications</strong></td>
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<td>Mechanical Drawing I (S)</td>
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<td>Introduction to Computer and Network Literacy (S)</td>
<td>Introduction to Programming and Internet Literacy (S)</td>
<td>A+ Computer Repair (MHS) (S)</td>
<td>Network+ Certification (MHS) (S)</td>
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<td>Introduction to Graphic Design and Multimedia Literacy (S)</td>
<td>Introduction to Game Programming and Designs (S)</td>
<td>Introduction to Robotics (S)</td>
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<td>Independent Study Technology (ITE) Seminar (S/Y)</td>
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**Legend:**

S = Semester
Y = Year
Home Maintenance – 4000 (OHS only)
The objective of this course is to help the student become competent homeowners. Skills used in building and maintaining a home, namely the use of hand and power tools, will be emphasized as well as home safety and purchasing guidelines.

Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Woodworking I – 4030
A semester is devoted to woodworking. During this time, the student becomes well acquainted with the tools, methods and techniques involved in working with woods. The student has an opportunity to use hand tools, power tools and machines connected with woodworking. This course has a minimum materials fee of $18.

Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Woodworking II – 4035
This semester course is a continuation of Woodworking I. During this time the student becomes well acquainted with the tools, methods and techniques involved in working with woods. The student has an opportunity to use hand tools, power tools and machines connected with woodworking. The student will have the opportunity to construct a major project as well as an introductory wood-turning project. This course has a minimum materials fee of $30.00.

Prerequisite: Woodworking I with a “C” or higher
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Advanced Woodworking – 4040
This course is a continuation of Woodworking I and II with emphasis on machine tools, materials and processes of the woodworking industry. Many woodworking power tools and equipment will be used in the construction of major projects. This course has a minimum materials fee of $60.00.

Prerequisite: Woodworking II with a “C” or higher
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (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 II Course; Concurrently enrolled in Geometry in Construction-Geometry
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Practical Arts)

Metals – 4050 (OHS only)
This course is designed to provide knowledge and experience in metalworking methods and techniques. Areas of study will be safety, tools and equipment, sheet metal, welding, metallurgy and machining of metal. This course has a materials fee of $28.00.

Prerequisite: Concurrently enrolled in Algebra IA/Algebra IB or higher
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Metals II – 4051 (OHS only)
This course is designed to provide knowledge and experience in metalworking methods and techniques beyond those acquired in Metals I. Areas of study will include safety, layout, tools and equipment, sheet metal, welding, metallurgy, restoration and machining of metals. Projects will be largely student designed and implemented. This course has a minimum materials fee of $30.00 depending on materials required for project completion.
Prerequisite: Metals with a “C” or higher
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Electricity – 4060 (MHS only)
This course involves studying the fundamentals of electricity. The student will gain basic overall knowledge and experience in areas of safety, electrical science/theory, sources of electricity, electromagnetism, electric components/circuits, fabricating/troubleshooting and career opportunities.
Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Mechanical Drawing I – 4100
The student will be provided with the opportunity to have many experiences in the area of drawing, such as sketching, projection drawings, pictorial drawings, working drawings of mechanical devices and an introduction to computer-aided drafting. Emphasis is placed on making drawings, reading drawings and reproducing drawings with AutoCAD software or mechanical drawing tools. This is an introductory level course for Architectural Drawing and Mechanical Drawing II.
Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Mechanical Drawing II – 4105
The student will be provided with the opportunity to be introduced to the solid modeling and parametric modeling techniques from constructing basic shapes to building intelligent solid models, creating multi-view drawings and building assembly models. This course will help the student promote their own skills and career as they establish a good, solid basis for exploring and growing in the exciting field of computer-aided design and engineering using 3D modeling software such as Inventor. This is an introductory level course to Architectural Drawing.
Prerequisite: Mechanical Drawing I with a “C” or higher
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Architectural Drawing – 4120
This course will acquaint the student with problems and procedures involved in planning and constructing structures. The student will learn about the characteristics of various house types from the last four hundred years. The student will understand individual room planning and whole house planning. They will learn about drawing electrical wiring plans, exterior designing, window and door schedules, occupational opportunities and computer-aided drafting.
Prerequisite: Mechanical Drawing with a “C” or higher
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Practical Arts)

Advanced Architectural Drawing – 4130
This course is a continuation of Architectural Drawing, and the student will have more opportunities to learn through CAD drafting. The student will solve problems and develop complete sets of plans and specifications necessary to construct houses or commercial structures.
Prerequisite: Architectural Drawing with a “C” or higher
Open to: 11, 12
Credit: 1 Unit – Two Semesters (Practical Arts)
Introduction to Computer and Network Literacy – 4200
The purpose of this one-semester course is to expand the student’s understanding of basic computer architecture and operation (how computers work), common software packages and usage (what computers can do for you) and consumer maintenance practices (how to keep computers running), common network topologies and common network hardware. The student will gain knowledge and experience through a series of daily hands-on lab experiments. The theory and hands-on experiences are non-manufacturer specific.
Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Introduction to Programming and Internet Literacy – 4210
This one-semester course is designed to provide excellent hands-on training for the student with little or no experience with the Internet, with a focus on the user side of an ISP. The course also introduces the student to the process of creating and building full-featured Windows applications. Through classroom and laboratory experiences, the student begins to develop skills, knowledge and confidence in Visual Basic programming. In this program, the student is taught how to perform technical tasks associated with programming and Internet topics such as forms, buttons, text, debugger basics, interface design issues, functions, procedures, subroutines, arrays and looping, designing a basic HTML page, Internet functions Telnet, FTP, & WWW, setup a basic firewall for security, establish Internet connection slaving and consumer-level Internet troubleshooting.
Prerequisite: Algebra with a “C” or higher
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Introduction to Graphic Design and Multimedia Literacy – 4220
This one-semester course 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. Through classroom and laboratory experiences, the student begins to develop skills in authoring software, motion graphics development, visual design principles and other related technical subjects. In this program, the student is taught how to perform technical tasks associated with the design and creation of interactive multimedia communication. Regardless of artistic ability or background, each student is led to investigate and recognize his or her creativity.
Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

Introduction to Game Programming and Design – 4225
Game Programming 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 using a drag-and-drop interface. The student will discover how to blend traditional problem-solving techniques with contemporary Hollywood-style storyboarding 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: Introduction to Programming and Internet Literacy with a “C” or higher or current teacher approval (Strongly recommended: Introduction to Graphic Design and Multimedia Literacy, Introduction to Web Design, or Computer Art Studio)
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
Introduction to Robotics – 4226
Introduction to Robotics is a one-semester course designed to challenge the student to plan the foundation, construction and programming of a personal and/or industrial service robot. The student will investigate the mechanics and propulsion of two different types of robotics and the electrical controls that accompany them.
Prerequisite: Introduction to Programming and Internet Literacy and Algebra I with a “C” or higher or current teacher approval
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)

A+ Computer Repair – 4230 (MHS only)
This one-semester course prepares the student for successful completion of the CompTIA A+ certification exam. It is the foundation course for all computer technicians. The student will gain knowledge and experience that will allow them to install, upgrade and repair personal computers and peripherals (printers, scanners and modems) through a series of forty-four different hands-on lab experiments. The theory and hands-on experiences are non-manufacturer specific. The student will have the option of taking the CompTIA A+ certification exam.
Prerequisite: Introduction to Computer and Network Literacy with a “C” or higher
Open to: 11, 12
Credit: 1 Unit – One Semester (Practical Arts)

Network+ Certification – 4240 (MHS only)
This one-semester course prepares the student for successful completion of the CompTIA Net+ certification exam. It is the second course in the CompTIA certification course sequence. The student will gain knowledge and experience that will allow them to setup, configure and troubleshoot local area networks and their components through a series of different hands-on lab experiments. The theory and hands-on experiences are non-manufacturer specific. The student will have the option of taking the CompTIA Net+ certification exam.
Prerequisite: A+ Computer Repair with a “C” or higher
Open to: 11, 12
Credit: 1/2 Unit – One Semester (Practical Arts)

Independent Study Technology (ITE) Seminar – 4350
This course is designed to provide the student an opportunity to pursue advanced study in technology beyond the normal curricular offerings. The student will produce a series of projects and/or activities, with agreement of the instructor, to investigate specific areas of interest based upon individual needs and interest. Student participation in this program is allowed only by instructor permission. This course is offered in one semester and two semester units.
Prerequisite: Application approval
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Practical Arts)
1 Unit – Two Semesters (Practical Arts)

Cadet Teaching – Industrial Technology – 4400
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
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<th>9th Grade</th>
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<td>Construction-Geometry (Y)</td>
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**Legend:**
- **S** = Semester
- **Y** = Year

**Note:** If the student’s goal is to reach a higher math course than what is demonstrated in a typical course sequence, the student needs to consult his/her math teacher to obtain departmental approval.
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).

Pre-Geometry – 2010
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)

Pre-Algebra – 2000
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, percent, operations with integers and graphing are also covered. The foundations for Algebra are introduced as problem-solving skills are stressed. This course is not generally open to the student earning “C’s” or better in 8th grade. Calculators will be used when appropriate.

Prerequisite: None
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Math)

Algebra IA – 2090 /Algebra IB – 2095
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 I – 2100
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)
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.
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)
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 – 2295
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)

Algebra II Accelerated – 2300
Algebra II Accelerated 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 use of technology will be used to enhance instruction.

Prerequisite: Any Algebra I Course
Open to: 10, 11, 12 (Required)
Credit: 1 Unit – Two Semesters (Math)

Honors Algebra II – 2315
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)
Geometry – 2195
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 II course

Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Math)

Honors Geometry – 2220
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: 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 II Course; Concurrent enrollment in Geometry in Construction-Construction**

Open to: 10, 11, 12
Credit: 1 Unit

Probability and Statistics – 2350
This course will teach the student to analyze data by using measures of central tendency (mean, median, and mode), measures of variation (variance, standard deviation), and their relationship to the normal distribution. Other statistical analysis will include percentile rank, z-scores, linear correlation and regression. The course also teaches probability, probability distributions, combinations, permutations, odds and mathematical expectation. Each student is required to have a scientific calculator (TI-83+ recommended).

**Prerequisite:** Concurrent or successful completion of any Geometry

Open to: 11, 12
Credit: 1 Unit – Two Semesters (Math)
Advanced Placement Statistics – 2365W
This course will teach the student to analyze data by using measures of central tendency (mean, median and mode), measures of variation (variance, standard deviation) and their relationship to the normal distribution. Other statistical analyses will include percentile rank, z-scores, linear correlation and regression. The course will teach probability, probability distributions, combinations, permutations, odds, confidence intervals, hypothesis testing and mathematical expectation. Each student is required to have a scientific calculator (TI-83+ recommended). Advanced Placement credit offered. See page 12 for more information about Advanced Placement credit fees.
Prerequisite: Concurrent or successful completion of Geometry Accelerated or Honors Geometry and current teacher approval
Open to: 11, 12
Credit: 1 Unit – Two Semesters (Math)
Weighted 1.0

College Prep Mathematics – 2382
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 sequences and series, conic sections, matrices and functions. 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 them to move directly into College Algebra. The student taking this course will not receive any additional increase to their GPA for this course. Calculators will be used when appropriate.
Prerequisite: Any Algebra II and Geometry
Open to: 11, 12
Credit: 1 Unit – Two Semesters (Math)

College Algebra – 2400W
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. Dual Credit offered. See page 11 for more information about Dual Credit fees.
Note: College Prep Mathematics (course number 2382) may not be taken after successful completion of College Algebra.
Prerequisite: Algebra II Accelerated or Honor Algebra II and Geometry Accelerated or Honors Geometry and current teacher approval
Open to: 11, 12
Credit: 1 Unit – Two Semesters (Math)
Weighted: 0.75

Pre-Calculus – 2405W
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. Dual Credit offered. Note: College Algebra and Trigonometry may not be taken after successful completion of Pre-Calculus. Pre-Calculus will meet both the college algebra and ½ unit trigonometry prerequisite components of Advanced Placement Calculus. Dual Credit offered. See page 11 for more information about Dual Credit fees.
Prerequisite: Honors Algebra II and Honors Geometry and current teacher approval
Open to: 11, 12
Credit: 1 Unit – Two Semesters (Math)
Weighted: 0.75
Advanced Placement Calculus – 2411W
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-83+ recommended). Dual Credit and Advanced Placement credit offered. See pages 11 and 12 for more information about Dual Credit and Advanced Placement fees.

Prerequisite: College Algebra and Pre-Calculus and current teacher approval
Open to: 12, or with department approval
Credit: 1 Unit – Two Semesters (Math)
Weighted: 1.0

Cadet Teaching – Mathematics – 2420
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)
## Music

### Non-Performing Music

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### Vocal Music

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**Legend:**

- **S** = Semester
- **Y** = Year
Music Appreciation – 7200
This course is a nonperformance-oriented class, designed to provide the student with information and experiences that will deepen their understanding and appreciation of all types of music. The fundamentals, history, aesthetics and critical analysis of music will be presented through the mediums of recordings, videos, class activities and lectures.
Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (OHS) (Fine Arts)
½ Unit or 1 Unit – One or Two Semesters (MHS) (Fine Arts)

Advanced Placement Music Theory – 7208W (OHS only)
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. The objectives for this course are based on the Advanced Placement Music Theory course description. It is designed to develop musical skills that will lead to a thorough understanding of musical composition and theory. Upon completion, the student will be prepared and encouraged to take the Advanced Placement Music Theory exam. This course is designed for the college-bound music student and the student who has a desire to increase their technical knowledge of music. Advanced Placement credit offered. See page 12 for more information about Advanced Placement credit fees.
Prerequisite: One Credit of Honor Band, Concert Choir, or current teacher approval
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)
Weighted: 1.0

Men’s Choir – 7210
This is a non-auditioned performing men’s ensemble that provides an aesthetic choral experience for the student who is interested in learning more about the workings of the voice and fundamentals of music. Through observing and listening to others, the student will compare and contrast exemplary works arranged for male voices. This class provides a choral experience that emphasizes a variety of vocal styles and historical periods. The student who wishes to sing in men’s chorus beyond one year must obtain teacher approval.
Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (MHS) (Fine Arts)
1 Unit – Two Semesters (MHS/OHS) (Fine Arts)

Women’s Choir – 7220
The women’s choir is a non-auditioned performing women’s ensemble that provides an aesthetic choral experience for the student who is interested in learning more about the workings of the vocal instrument and fundamentals of music. Through observing and listening to others, the student will compare and contrast exemplary works arranged for female voices, which provides a choral experience that emphasizes a variety of vocal styles and historical periods. The student who wishes to sing in women’s chorus beyond one year must obtain teacher approval.
Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ or 1 Unit – One or Two Semesters (Fine Arts)
Concert Choir Treble – 7230
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 female voices. The student studies vocal technique, music literacy and practices performance skills from a variety of musical periods. By observing and listening to others, the student will develop 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. The uniform is the financial responsibility of the student.

Prerequisite: Permission of instructor after audition
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

Concert Chorale – 7235
Concert Chorale is an auditioned performing ensemble for the student who is beginning to understand four-part singing beyond the beginning level. The course provides an aesthetic choral experience for the student who is interested in studying intermediate choral literature from various historical periods. The student studies vocal technique, music literacy and practices performance skills from a variety of musical periods. By observing and listening to others, the student will develop analytical and critical thinking skills. This choir participates in concerts, choral festivals and competitions. There is a uniform requirement for the members of this ensemble. The uniform is the financial responsibility of the student.

Prerequisite: Permission of instructor after audition
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

Concert Choir Mixed – 7240
Concert Choir Mixed is an auditioned performing ensemble for the student who wants an aesthetic choral experience that involves the study of a wide variety of advanced choral literature from various historical periods. The student studies advanced vocal technique, music literacy and practices performance skills. Through observing and listening to others, the student will develop 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. The uniform is the financial responsibility of the student.

Prerequisite: Permission of instructor after audition
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

Jazz Choir/Show Choir – 7250
Jazz Choir/Show Choir is an auditioned performing ensemble for the student who wants an aesthetic choral experience and is interested in studying vocal jazz literature. The student studies vocal technique, music literacy and practices performance skills with an emphasis on vocal jazz, musical theater and American popular music. Through observing and listening to others, the student will develop 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. The uniform is the financial responsibility of the student.

Prerequisite: Enrollment in Honor Band or Concert Choir must be fulfilled during the same year that the class is taken. Permission of instructor after audition
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)
Women's Chamber Choir – 7260
Women's Chamber Choir is an auditioned performing ensemble that provides an aesthetic choral experience for the student who is interested in studying a cappella choral literature specifically written for female voices. The student studies vocal technique, music literacy and practices performance skills with an emphasis on chamber music from various historical periods. By observing and listening to others, the student will develop 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. The uniform is the financial responsibility of the student.

Prerequisite: Permission of instructor after audition
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

Madrigal Singers – 7270
Madrigal Singers is an auditioned performing ensemble that provides an aesthetic choral experience for the student who is interested in studying a cappella choral literature specifically written for mixed voices. The student studies advanced vocal technique, music literacy and practices performance skills with an emphasis on chamber music from various historical periods. Through observing and listening to others, the student will develop analytical and critical thinking skills. This choir participates in concerts, choral festivals, competitions and performances in the community for civic organizations. This ensemble produces a medieval dinner theater during the holiday season. There is a uniform requirement for the members of this ensemble. The uniform is the financial responsibility of the student.

Prerequisite: Permission of instructor after audition
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

Beginning Band – 7300
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 skills in critical analysis and a basic knowledge of historical band styles.

Prerequisite: None
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

Concert Band – 7310
The Concert Band class is for the student advanced beyond the Beginning Band level. This class is designed to further develop the student’s technical skills and proficiencies through performance on individual instruments. Critical analysis, musical growth and aesthetic appreciation will be built through the study of band literature.

Prerequisite: Beginning Band (Middle or High School)
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)
Honor Band – 7320
The Honor Band continues the development of performance 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. This is the school’s performance band that plays at various functions throughout the year. From this large organization the following smaller groups are formed:

- Marching Band – performs at all home football games, parades and marching competitions
- Pep Band – Plays at home basketball games and various school rallies
- Symphonic Band – Performs advanced literature for band
- Wind Ensemble - Composed of the top musicians of the symphonic band

**Prerequisite: Permission of instructor after audition**
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

Jazz Band – 7330
The Jazz Band is a performance class that is designed to give concentrated instruction in various historical styles of jazz. This class is a fusion of the technique and knowledge learned in previous instrumental music courses. Jazz Band encourages the development of aesthetics and critical analysis through improvisation, ensemble performance and stylistic interpretation. This ensemble will participate in various school-related programs and festivals throughout the school year.

**Prerequisite: Enrollment in Honor Band or Concert Choir must be fulfilled during the same year that the class is taken. Permission of instructor after audition**
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

String Orchestra – 7340
String Orchestra continues the development of technique and knowledge learned in previous strings courses. This class is designed to further develop the student’s individual and ensemble technical skills and proficiencies. String literature, history, aesthetics, technical skills, critical analysis and musical growth will be built through the study and performance of string orchestra literature.

**Prerequisite: Completion of middle school string program and current teacher approval**
Open to: 9, 10, 11, 12
Credit: 1 Unit – Two Semesters (Fine Arts)

Independent Study – Music – 7350
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. The class is designed to further develop the student’s individual and ensemble technical skills, proficiencies, and understanding of music theory. Criticism analysis, musical growth, and aesthetic appreciation will be built through the study and performance of selected literature.

**Prerequisite: Permission of instructor after audition**
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)
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<th>9th Grade</th>
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<td>Health (S)</td>
<td>Team Sports/Fitness I for Boys (S)</td>
<td>Health (S)</td>
<td>Introduction to Sports Medicine (S)</td>
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<tr>
<td>Team Sports/Fitness I for Girls (S)</td>
<td>Team Sports/Fitness I for Girls (S)</td>
<td>Lifetime Sports/Fitness for Boys/Girls (S)</td>
<td>Team Sports/Fitness II for Boys (S)</td>
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<td>Strength/Conditioning I for Boys (OHS) (S)</td>
<td>Introduction to Sports Medicine (S)</td>
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<td>Strength/Conditioning II for Boys (OHS) (S) (must have completed two semesters of PE)</td>
<td>Strength/Conditioning II for Boys/Girls (MHS) (S) (must have completed two semesters of PE)</td>
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<td>Aerobics/Fitness for Boys/Girls (MHS) (S)</td>
<td>Team Sports/Fitness II for Boys (S)</td>
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<td>Strength/Conditioning II for Boys (OHS) (S)</td>
<td>Cadet Teaching (S)</td>
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<td>Aerobics/Fitness for Boys/Girls (MHS) (S)</td>
<td>Strength/Conditioning II for Girls (OHS) (S)</td>
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Legend:
S = Semester
Y = Year
Team Sports/Fitness I for Boys – 8000
The Team Sports curriculum will provide the student with a variety of games related to team sports and tournament play. This enables the student to demonstrate motor skills, knowledge of rules and game strategies for sports activities.

Prerequisite: None
Open to: 9, 10 (Boys only)
Credit: ½ Unit – One Semester (PE)

Team Sports/Fitness I for Girls – 8005
The Team Sports curriculum will provide the student with a variety of games related to team sports and tournament play. This enables the student to demonstrate motor skills, knowledge of rules and game strategies for sports activities.

Prerequisite: None
Open to: 9, 10 (Girls only)
Credit: ½ Unit – One Semester (PE)

Strength Training/Conditioning I for Boys – 8010 (OHS)
Strength Training/Conditioning I for Boys/Girls – 8010 (MHS)
This course is designed for the student who wants to obtain/maintain an advanced level of fitness. Weight training, cardiovascular fitness and safety are the areas of emphasis.

Prerequisite: None
Open to: 9, 10 (Boys/Girls) MHS
         9, 10 (Boys only) OHS
Credit: ½ Unit – One Semester (PE)

Strength Training/Conditioning Girls– 8015 (OHS only)
This course is designed for the student who wants to obtain/maintain an advanced level of fitness. Weight training, fitness and safety are the areas of emphasis.

Prerequisite: None
Open to: 9, 10, 11, 12 (Girls only) OHS
Credit: ½ Unit – One Semester (PE)

Team Sports/Fitness II for Boys – 8020
The Team Sports curriculum provides the student with a variety of games related to team sports and tournament play. This enables the student to demonstrate motor skills, knowledge of the rules and game strategies for sports activities.

Prerequisite: None
Open to: 10, 11, 12 (Boys only)
Credit: ½ Unit – One Semester (PE)

Team Sports/Fitness II for Girls – 8025
The Team Sports curriculum provides the student with a variety of games related to team sports and tournament play. This enables the student to demonstrate motor skills, knowledge of the rules and game strategies for sports activities.

Prerequisite: None
Open to: 10, 11, 12 (Girls only)
Credit: ½ Unit – One Semester (PE)

Lifetime Sports/Fitness for Boys/Girls – 8030
The Lifetime Sports activity class provides an emphasis on recreational and individual sports which have carry-over value for leisure time in later life.

Prerequisite: None
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (PE)
Strength Training/Conditioning II for Boys – 8035 (OHS)
Strength Training/Conditioning II for Boys/Girls – 8035 (MHS)
This course is designed for the student who wants to obtain/maintain an advanced level of fitness. Weight training, cardiovascular fitness and safety are the areas of emphasis.

Prerequisite: Strength Training/Conditioning I
Open to: 10, 11, 12 (Boys/Girls) MHS
10, 11, 12 (Boys only) OHS
Credit: ½ Unit – One Semester (PE)

Aerobics/Fitness for Girls – 8040 (OHS)
Aerobics/Fitness for Boys/Girls – 8040 (MHS)
This course is designed to tone muscles and improve the student’s figure through aerobic-type dancing, fitness, running and exercise.

Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (PE)

Cadet Teaching – Physical Education – 8045
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: Completed PE requirements
Open to: 12
Credit: ½ Unit – One Semester (elective)

Health – 8050
The High School Health Curriculum is designed to provide the student with the knowledge and skills to validate decisions which will affect their health and well-being. Topics covered in the course include: Body/Social Systems, Nutrition Principles and Practices, Consumer Health, Life Management Skills, Disease Prevention and Control, Injury Prevention and Safety, Substance Abuse, Personal Fitness and Wellness, Environmental Health and HIV/AIDS.

Prerequisite: None
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester

Introduction to Sports Medicine – 8055
The sports medicine curriculum provides the student with the skills and knowledge to validate decisions that will impact their health and well-being. Topics will include: evaluation of sports injuries, prevention, treatment and rehabilitation; taping and wrapping of injuries; first aid and CPR; emergency procedures; medical terminology; anatomy and physiology; fitness conditioning and strength programs and sports medicine careers. There is a $25 fee for CPR certification.

Prerequisite: Health with a “C” or higher
Open to: 10, 11, 12 or with teacher approval
Credit: ½ Unit – One Semester (elective)
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<td>Culture (Y)</td>
<td>Astronomy (S)</td>
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<td>Advanced Placement</td>
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<td>Honors Chemistry (Y)</td>
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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 8th Grade Teacher**
Open to: 9
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

Honors Biology – 3120
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, 8th 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

Biology Concepts – 3100
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

Biology – 3110
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

Chemistry – 3060
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
Honors Chemistry – 3070
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: Both semesters of Algebra II (H2300) with a “C” or higher
Open to: 10, 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

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

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 “C” or higher in Algebra II or equivalent.
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters

Geology – 3150
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

Astronomy – 3160
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
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

Fossils and the Story of Ancient Life – 3180
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

Ecology - 3195
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

Botany – 3200
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

Zoology – 3210
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

Credit: ½ Unit – One Semester
Forensics – 3220
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

Advanced Placement Biology – 3235W
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. See pages 11 and 12 for more information about Dual Credit and Advanced Placement fees.

Prerequisite: Biology or Honors Biology with a “B” or higher in both semesters and Chemistry or Honors Chemistry with a “C” or higher in both semesters or current teacher approval
Open to: 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 1.0

Anatomy and Physiology – 3241W
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. See page 11 for more information about Dual Credit fees.

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

Advanced Placement Physics – 3270W
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. See pages 11 and 12 for more information about Dual Credit and Advanced Placement fees.

Prerequisite: Two years of high school science with a "B" or higher in both classes. Algebra II (H2300) with a "B" or higher or equivalent.
Open to: 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 1.0
Advanced Placement Chemistry – 3281W
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. See pages 11 and 12 for more information about Dual Credit and Advanced Placement fees.

**Prerequisite:** Concurrently enrolled in College Algebra, Pre-Calculus or Calculus and current teacher approval

Open to: 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 1.0

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

Cadet Teaching – Science – 3310
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)
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<td>World History (Y)</td>
<td>American Government (Y)</td>
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<td>AP World History (Y)</td>
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<td>AP Macroeconomics (S)</td>
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<td>Independent Study (S)</td>
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**Legend:**

S = Semester
Y = Year
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

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)

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)

World History: 1450 – Present Day – 1100  
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)

Honors World History: 1450 – Present Day – 1105  
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)
Advanced Placement World History – 1135W
This course seeks to engender among the student a thorough understanding of the human condition. Particular emphasis is placed on the analysis of continuity and change within and between civilizations. Major developments in the areas of technological change, cultural institutions, political and social systems and geography form the building blocks of the course. Considerable emphasis is placed on thinking and writing like a historian through an analysis of source documents, change over time and cross-civilization comparisons. Major periods studied include broad historical developments during Foundations (8000 B.C.E. to 600 C.E.)/The Post-Classical Era (600-1450 C.E.)/Interaction of World Cultures (1450-1750 C.E.)/Western Global Hegemony (1750-1914 C.E.)/The 20th Century in World History (1914-Present). The course includes pre-history prior to 8000 B.C.E. Advanced Placement credit offered. See page 12 for more information about Advanced Placement credit fees.
Prerequisite: 3.0 overall GPA or teacher approval
Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters (World Studies)
Weighted: 1.0

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

American Government – 1000
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)

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: 3.0 GPA or teacher approval
Open to: 11, 12
Credit: 1 Unit – Two Semesters (American Government)
Weighted: 1.0
Advanced Placement U.S. History – 1231W
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 to 11 and 12. See pages 11 and 12 for more information about Dual Credit and Advanced Placement credit fees.

Prerequisite: 3.0 overall GPA or teacher approval
Open to: 11, 12
Credit: 1 Unit – Two Semesters (American Studies)
Weighted: 1.0

Introduction to Psychology – 1320
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)

Psychological Inquiry – 1330
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)

Advanced Placement Psychology – 1335W
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: 3.0 overall GPA or teacher approval. (Introduction to Psychology recommended but not required).
Open to: 11, 12
Credit: 1 Unit – Two Semesters (Independent Elective)
Weighted: 1.0

Sociology – 1340
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)
Advanced Placement Human Geography – 1345W
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: *Open to 9th grade with teacher approval***
Open to: 9 (with middle school Principal recommendation and high school Social Studies Department Chair consent) 10, 11, 12
Credit: 1 Unit – Two Semesters (Social Studies Elective)
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)

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)

Economics – 1350
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)
**Advanced Placement Macroeconomics – 1355W (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: Algebra I, and 3.0 GPA or current teacher approval*

Open to: 11, 12
Credit: ½ Unit – First Semester (Independent Elective)
Weighted: 1.0

**Advanced Placement Microeconomics – 1357W (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: Algebra I, and 3.0 GPA or current teacher approval*

Open to: 11, 12
Credit: ½ Unit – Second Semester (Independent Elective)
Weighted: 1.0

**Contemporary Issues – 1360W – (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

**Modern America – 1365**
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)
Independent Study – Social Studies – 1380
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)

Cadet Teaching – Social Studies – 1390
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)
## Special Education Programs

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<td>Everyday Social Skills</td>
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<td>English Lab</td>
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Mathematics course sequence may be changed to meet IEP goals.

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<td>Principles of Algebra 1A/1B Team</td>
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<td>Principles of Geometry Team</td>
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Legend:
S = Semester  
Y = Year
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.

**Reading Lab – 0125**
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
**Personal Finance Foundations – 9066**

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)

**Exploring Teen Issues – 9069**

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

**Study Skills – 9070**

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

**Self-Advocacy – 9071**

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

**Transition Study Skills – 9072**

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
Cooperative Education (Co-Op) Program – 9080
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)

Community Based Vocational Instruction (CBVI)
CBVI Schnucks – 9078SC
CBVI In-House – 9080
CBVI Nazareth – 9082
CBVI St. Anthony’s – 9080SA
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)

Transition to Work – 9083
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)

Everyday Living Courses
Everyday English – 9085
Everyday Math – 9087
Everyday Social Studies – 9092
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 – 9085
Credit: 1 Unit - Two Semesters
Everyday Social Studies – 9092
Credit: 1 Unit – Two Semesters
Everyday Math – 9087
Credit: 1 Unit – Two Semesters
Everyday Science/Health – 9068
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

Math I Foundations – 90891
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 – 9089
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 – 9090
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)

Algebra Foundations – 9091
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.

English I Foundations – Literary Genres and Composition – 9095
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 – 9096
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 – 90961
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 – 9098
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)
### STEM - (Science Technology Engineering Mathematics)

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<th>9th Grade</th>
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<td><strong>Biomedical Science</strong></td>
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<tr>
<td>Principles of Biomedical Sciences (Y)</td>
<td>Human Body Systems (Y)</td>
<td>Medical Interventions (Y)</td>
<td>Biomedical Innovation (Y)</td>
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<td><strong>Computer Science</strong></td>
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<td>Introduction to Engineering Design (Y)</td>
<td>Principles of Engineering (Y)</td>
<td>Digital Electronics (Y)</td>
<td>Engineering Design And Development (Y)</td>
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<td>Aerospace Engineering (Y)</td>
<td>Civil Engineering And Architecture (Y)</td>
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**Principles of Biomedical Science – HSTEM06**

The student explores the concepts of human medicine and is introduced to research processes and bio-informatics. 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. Dual credit offered. See page 11 for more information about Dual Credit fees.

**Prerequisite:** Concurrent enrollment in appropriate grade-level science course

Open to: 9, 10, 11, 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. Dual credit is available for this course. See page 11 for more information about Dual Credit fees.

Prerequisite: Principles of Biomedical Science with a “C” or higher and concurrent enrollment in appropriate grade level science course

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. See page 11 for more information about Dual Credit fees.

Prerequisite: Human Body Systems with a “C” or higher and concurrent enrollment in appropriate grade level science course

Open to: 11, 12
Credit: 1 Unit – Two Semesters
Weighted: 0.75

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 for this course. See page 11 for more information about Dual Credit fees.

Prerequisite: Medical Interventions with a “C” or higher OR teacher approval and concurrent enrollment in appropriate grade level science course

Open to: 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

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

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:** Computer Science Principles
Open to: 11, 12
Credit: 1 Unit – Two Semesters
**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, sketchings, digital pictures, film clips and computer files to record and illustrate their design process. Concepts of careers, design, techniques, forms and shapes, geometry, graphing, adaptions, quality control, packaging and cost analysis are taught in a logical fashion and applied in this hands-on curriculum. Dual credit offered. See page 11 for dual credit fees and page 13 for PLTW fees.

**Prerequisite:** Concurrently enrolled in Algebra or higher
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. See page 11 for dual credit fees and page 13 for PLTW fees.
Prerequisite: Introduction to Engineering Design (IED) with a “C” or higher or current teacher approval and concurrently enrolled in Algebra I or higher
Open to: 10, 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

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
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

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. See page 11 for dual credit fees and page 13 for PLTW fees.
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
## Theatre

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<tbody>
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<td>Acting (S)</td>
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<td>Advanced Acting (S)</td>
<td>Theatre Stagecraft (S)</td>
<td>Theatre Workshop (S)</td>
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**Legend:**
- **S** = Semester
- **Y** = Year

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**Acting – 7155**
The student will study acting through improvisation, actor training techniques and scene work. Course work covers a wide range of theatrical trends and acting styles. The student is introduced to theatrical terminology, theatrical history, play production and script analysis.

**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

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**Advanced Acting – 7160W**
This advanced course in Acting will continue to expose the student to and develop a personal understanding of diverse cultures and communication. These include order, self-discipline, balance, aesthetics, self-expression and self-confidence. 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. Dual Credit offered. See page 11 for more information about Dual Credit fees.

**Prerequisite:** Completion of one semester of Acting with a “B” or higher and current teacher approval

**Open to:** 11, 12

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

**Weighted:** .75

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**Theatre Stagecraft – 7165**
The student will gain experience in set construction, theatrical lighting and instruments, costumes construction, prop procurement, makeup application and publicity as they work on the Theatre Department’s current theatrical production. In addition, the student will be able to explore model making, painting techniques and technology use in the theatre.

**Prerequisite:** None

**Open to:** 11, 12 (10 with instructor permission)

**Credit:** ½ Unit – One Semester (Fine Arts)
Theatre Workshop – 7175
The student who has already taken Acting or Theatre Stagecraft will gain further experience in acting and theatrical production. The student will also have opportunities to direct their own productions. The student may be involved in the school’s major theatrical production, as well as producing their own show.

**Prerequisite: Acting or Theatre Stagecraft**
Open to: 11, 12
Credit: ½ Unit – One Semester (Fine Arts)

Cadet Teaching – Theatre – 7186
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)
Two-Dimensional Art Foundations – 7000
Two-Dimensional Art Foundations is an introductory-level course that provides a solid foundation in the fundamentals of 2-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 2-D art forms such as drawing, design 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, Printmaking, Applied Design and Computer Art Studio. 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 9th graders take both 2-D Art Foundations and 3-D Art Foundations)

Three-Dimensional Art Foundations – 7005
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 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 9th graders take both 2-D Art Foundations and 3-D Art Foundations)

Drawing I – 7010
This course extends the drawing instruction that was given in Two-Dimensional Art Foundations. It examines more closely and makes use of graphic elements such as line, form, value and texture. The student will explore areas such as figure drawing, nature and still life using pencil, charcoal, pen and ink, conté and pastels. In addition, the student will be involved in art discussions, research and written assignments. They will also increase their awareness of and knowledge about significant works of art, both contemporary and past. This course has a $5.00 lab fee.

Prerequisite: 2-D Art Foundations
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)

Honors Drawing II – 7020
This course is designed to continue the student’s instruction and experience in developing drawing skills and most effectively using drawing tools and techniques. This will be done through the areas of contour, gesture and figure drawing with still life, perspective and design problems. Media will include pencil, charcoal, conté, pen and ink and pastels. The student will have opportunities for creative and imaginative work, and will develop more fully their powers of observation, perception and visual problem solving. In addition, the student will be involved in art criticism, research and written assignments. They also will study past and contemporary artwork and its significance to their lives. This course has a $5.00 lab fee.

Prerequisite: 2-D Art Foundations and Drawing I
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)
Painting I – 7030
This course builds on foundational painting skills with an emphasis on techniques in watercolors, 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, the student will be involved in research and written assignments. Drawing skills are recommended. This course has a $5.00 lab fee.
Prerequisite: 2-D Art Foundations
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)

Honors Painting II – 7040
Honors Painting II presents new challenges to the student who has succeeded in Painting I by exploration of broader media. Painting techniques used by artists for hundreds of years will be investigated as the student produces their own images. Further exploration of acrylic painting and other contemporary painting media will be included in this course. The study of some famous painters and the paintings they created will help the student recognize the important role of artists in cultures throughout history. This course has a $5.00 lab fee.
Prerequisite: 2-D Art Foundations and Painting I
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)

Ceramics I – 7050
Ceramics I is designed to expose the student 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 tests. An exposure to ceramics provides the student exploration with pinch, coil and slab construction, as the student addresses and synthesizes the issues of function, decoration and beauty. In addition, the student will critically analyze, in written form, works of art they view outside the classroom. This course has a $5.00 lab fee.
Prerequisite: 3-D Art Foundations
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)

Honors Ceramics II– 7060
Honors 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 $5.00 lab fee.
Prerequisite: 3-D Art Foundations and Ceramics I
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)

Photography I – 7070
Photography provides us with a record of the present and insight into the past. 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. Textbook reading and tests are given regularly. Digital camera with manual program modes recommended. This course has a $6.00 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)
Honors Photography II – 7080
The student will learn advanced picture taking techniques using digital cameras. They will study photo law and the ethics involved with the manipulation of images. With the aid of current photographic image software or in the darkroom using traditional techniques, the student will make high contrast graphic art images, tone and hand-color their photos. Emphasis will be on producing expressive, creative display prints. The student will research the history of famous photographers and write a critique of their artwork. Digital camera with manual programming modes recommended. This course has a $6.00 lab fee.
Prerequisite: 2-D Art Foundations or 3-D Art Foundations and Photography I
Open to: 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)

Applied Design – 7090
This course provides a practical application of a variety of hands-on design projects using many mixed media techniques. The student will apply the elements and principles of art by creating decorative, fiber and printed designs. Through vessel making and the use of mixed media, the student will demonstrate knowledge of the design principles. Research and written assignments will be required. It is beneficial to have both 2-D and 3-D Art Foundations prior to taking this course. This course has a $5.00 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)

Sculpture – 7100
Sculpture is a studio-emphasis art course enriched with content from art history, art criticism and aesthetics. A number of units will be explored, beginning with an investigation of 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 (carving, casting, modeling, construction and assemblage) and techniques used to form low relief, high relief and sculpture-in-the-round. This course has a $5.00 lab fee.
Prerequisite: 3-D Art Foundations
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)

Printmaking – 7110
Printmaking will afford the student the opportunity to use their own designs to experience classic art print processes such as relief printing, paper-litho, monoprint, collagraph, intaglio and serigraphy. The history of printmaking will explore its transition from a once practical art to fine art, along with significant artists and individual works. The student will also explore the role of printmaking in contemporary societies and the value of prints as an art form; research and written assignments will be required. Drawing skills recommended. This course has a $5.00 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)

Computer Art Studio – 7115
This course is designed for the student who is interested in the areas of computer-generated art and related digital media. It provides practical applications for a variety of projects to explore computer-generated design. The student will be introduced to professional graphic design software similar to Adobe Photoshop, Adobe Illustrator and Adobe InDesign. Some handwork will be required. Drawing skills and an interest in design layout will be helpful. This course has a $5.00 lab fee.
Prerequisite: 2-D or 3-D Art Foundations
Open to: 9, 10, 11, 12
Credit: ½ Unit – One Semester (Fine Arts)
Advanced Placement Studio Art – 7125W
Advanced Placement Studio Art is designed for the serious art student who plans to enroll in college for an art-related career. It is recommended that the student take as many art courses as he/she can before applying for AP Studio Art. The student must have a 3.5 GPA in their prior advanced art classes, be highly motivated, and submit a portfolio to be reviewed by the Visual Arts Department. The student will produce artwork for their specific portfolio to be used for Advanced Placement credit at various universities and potential scholarship opportunities in the visual arts. This course has a $10.00 lab fee per semester.

The student in AP Studio Art will choose from one of the following three-course options:

**AP Drawing**
The student will expand their drawing and two-dimensional design skills and advance their visual communication skills by exploring a variety of design processes and techniques, and compositional and aesthetic concepts.

**AP 2-D Art and Design**
The student will expand their two-dimensional design skills and advance their visual communications skills by exploring a variety of design processes and techniques, and compositional and aesthetic concepts.

**AP 3-D Art and Design**
The student will expand their three-dimensional design skills and advance their visual communications skills by exploring a variety of design processes and techniques, and compositional and aesthetic concepts.

Advanced Placement credit offered. See page 12 for more information about Advanced Placement fees.

**Prerequisite:** 2-D or 3-D Art Foundations, a 3.5 GPA in art courses, portfolio submission and signed permission from Visual Arts Department Chair after portfolio review.

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

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Advanced Placement Art History – 7126W
The Advanced Placement Art History course is designed to function as a college-level art history course and to prepare the student for the AP Art History exam. This course examines major forms of artistic expression from pre-history and ancient to the present from a variety of cultures. The student will learn how to look at works of art critically, describe and interpret artworks with intelligence and sensitivity, and trace artistic influences and evaluate art from various aesthetic perspectives. Major periods to be studied include: Pre-history and Ancient through Medieval, Renaissance to the present and beyond the European artistic traditions such as those in, but not limited to, Africa, Asia and Oceania. No prior experience in art or art history is needed, but the course requires a strong commitment to academic work. Advanced Placement credit offered. See page 12 for more information about Advanced Placement fees.

**Prerequisite:** 3.0 overall GPA and AP Art History teacher approval

Open to: 10, 11, 12
Credit: 1 Unit – Two Semesters consecutive in the same year (Fine Art or elective credit)

**Weighted:** 1.0

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Cadet Teaching – Visual Arts – 7130
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 Visual Art 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 or 1 Unit – One or Two Semesters (elective)
### The Mehlville School District Curriculum Department

<table>
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<th>Title and Title Details</th>
<th>Phone Number</th>
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The Mehlville School District Curriculum Department coordinates the revisions of the 2019-2020 Career and Course Planning Guide with assistance from High School Department Chairs, Counselors and Administrators.