Mt. Vernon Township High School

Course Catalog
2026-2027



www.mvths.org

Mt. Vernon Township High School

Established: 1905 - Over 100 Years of Educational Success

11101 North Wells Bypass
Mt. Vernon, IL 62864
P: 618-244-3700
F: 618-246-1764

BOARD OF EDUCATION

President - Jonathan Ashby

Terry Knowles	Kathy Asbery	Crystal Hemby
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ROBERT GRIDER, Assistant Principal - Discipline

STEVEN SHIFFLET, Assistant Principal – East Campus

STUDENT SERVICES

Julie Littlefair - Assistant Principal, Student Services, Curriculum, Instruction & Assessment	jlittlefair@mvths.org
Kati Burns - Administrative Assistant, Student Services	kburns@mvths.org
Janna Foster - Administrative Assistant, Registrar	jfoster@mvths.org
Sarah Watts - Lead School Counselor, Class of 2030	swatts@mvths.org
Nealy Hamson - School Counselor, Class of 2029	nhamson@mvths.org
Annette Gullidge - School Counselor, Class of 2028	agullidge@mvths.org
Kim Lichtenfels - School Counselor, Class of 2027	klichtenfels@mvths.org
Kristina Black - School Social Worker, Class of 2030 & 2027	kblack@mvths.org
Lamanda Brookman - School Social Worker, Class of 2029	lbrookman@mvths.org
Vaness McGuire - School Social Worker, Class of 2028	vmcguire@mvths.org

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STUDENT SERVICES

A staff of specially trained personnel comprises the Student Services Department. Students may come to the Student Services Office before school, after school, during lunch or by appointment. The department is located in A Building. Parents are encouraged to visit the office and to seek assistance as needed.

School Counselors

The school counselors at Mt. Vernon Township High School are advocates who assist students in identifying and achieving academic, career, personal, social and emotional goals. Counselors promote and support the educational process by helping students explore their abilities, strengths, interests and talents while planning for life after high school. Counselors interact not only with students, but also with parents, teachers, administrators, and outside agencies and organizations in order to provide the best educational environment and opportunities for all students.

The primary role of the school counselor is to:

- Advocate for students
- Monitor and support academic progress
- Support student's social/emotional development
- Provide standardized test introduction and score interpretation
- Assist with college and career (post-high) planning

As a school that has aligned with the American School Counselor Association (ASCA) National Model for years, MVTHS is committed to delivering an effective, data-driven counseling program and creating an exemplary educational environment for its students.

School Social Workers

School Social Workers at MVTHS provide support for all students, while focusing on students who struggle with social-emotional needs within the school setting. The social workers assist staff with various concerns about students, as well as provide crisis services to students seeking support. The social workers serve as a link for students and families to outside community resources (outside counseling, low-income resources, and community connections. For additional resources, see our Student Services website.)

School Social Workers help students:

- achieve maximum benefit from their educational opportunities
- understand themselves and others
- improve interpersonal relationships
- cope with stress
- develop decision making skills
- help parents utilize school and community resources effectively
- utilize resources in meeting the educational, social and emotional needs of students
- promote a safe environment



ENROLLMENT

ENROLLMENT

Welcome to Mt. Vernon Township High School District #201. A student enrolling in the district must first contact the Student Services office to notify the school of their intent to enroll. Records will then be requested from the previous schools attended, and an online registration will need to be completed by the parent or guardian. Once a student is enrolled, the Student Services office will guide the student through the final steps of becoming a MVTHS Ram!

FORWARDING SCHOOL RECORDS

Upon written request, Mt. Vernon Township High School will forward a student's educational records to a school in which that student seeks or intends to enroll.

INSPECTION OF SCHOOL RECORDS

Students' written records are kept on file in the Student Services Office and are available to the students, parents, and/or legal guardian for inspection.

If information in a pupil's records is disputed by the parent, student, and/or legal guardian, the parent, student, and/ or legal guardian may meet with the Principal or Superintendent within a reasonable time after the review of the records to provide for the correction, deletion, or further explanation of such information.



Photo credit: McCarthy Construction

GRADUATION REQUIREMENTS

HIGH SCHOOL DIPLOMA

Mt. Vernon Township High School students must complete the following District 201 Board of Education graduation requirements and earn a minimum total of 23 credits in order to meet statewide graduation requirements and earn a MVTHS high school diploma.

College entrance requirements differ greatly and often exceed high school graduation requirements. For a complete explanation of requirements, students should contact their counselor.

Credit Requirements

CLASSES	REQUIRED CREDITS
ENGLISH	4
MATHEMATICS	3
SCIENCE	2
SOCIAL STUDIES	2
PE & HEALTH	2
CONSUMER EDUCATION	0.5 or 1.0
ELECTIVES	1+
TOTAL REQUIRED CREDITS	**23**

Illinois state law requires students to pass one (1) Consumer Education course in order to graduate. Courses that fulfill the Consumer Education requirement are: *Personal Finance (0.5), Resource Management (0.5), Business Technology A & B (1.0), and Agriculture Business Management (1.0).*

The Constitution Test covering the state and national constitutions is a major assessment in the Civics course and must be passed to fulfill graduation requirements. Failure to pass Civics will result in a student having to retake the course.

If third year Math class was failed the third year Math requirement for graduation may be fulfilled by completing one of the following: *Accounting I (1.0), Automotive Technician I (2.0), or Manufacturing I 2.0).*

HONOR GRADUATES

At graduation, students will be honored for academic success using the Latin Honor System which includes designations of:
Summa Cum Lade: 3.900 - 4.000+
Magna Cum Laude: 3.750 - 3.899
Cum Laude: 3.500 - 3.749

FAFSA

Illinois requires all public high school seniors to complete the Free Application for Federal Student Aid (FAFSA) or, if applicable, the Alternative Application for Illinois Financial Aid as a graduation requirement (Illinois School Code 105 ILCS 5/22-87, Sec. 22-87). In lieu of completing the FAFSA, students may complete a Nonparticipation Form, which satisfies the state requirement.

EARLY GRADUATION POLICY

Although the Board of Education of Mt. Vernon Township High School District #201 does not recommend that a student graduate prior to the graduation of his/her class, an exception may be made by the administration and/or Board of Education if the following requirements have been met:

- Students must meet all graduation requirements set by the State of Illinois and Mt. Vernon Township High School District #201
- Must submit the application to the Principal's Office by May 1 of student's junior year
- One of the following reasons:
  - Enrollment in the spring semester at a college or trade school
  - Enlistment in a branch of the military
  - Full time work or special circumstances

A Student who has met early graduation requirements may elect to receive a diploma and graduate with his/her class provided that the student has met all District No. 201 graduation requirements.

GRADING

SEMESTER CREDITS

In high school, the academic year is split into two semesters: fall and spring. Students earn final grades in each semester. It is important to understand how credits are earned. Students earn 0.5 credits for every semester class in which they earn a passing grade. A passing grade is a letter grade of at least a D or an earned percentage of 59.5 or better.

GRADING SCALE

A = 100-90
B = 89-80
C = 79-70
D = 69-60
E = 59 and below

GRADE POINT AVERAGE

In high school, students will earn points beginning with their first semester. These points accumulate throughout a student's time in high school. This is called a Grade Point Average (GPA). A student's grade point average is determined by dividing the total points earned by the number of classes taken. Only courses which are one semester in length will be calculated in the GPA. AP grade weight will be calculated as part of the GPA. Courses issued pass or fail grades are not calculated in the grade point average. Only final semester grades count towards a student's GPA, not progress report or quarter grades.

WEIGHTED GRADE POLICY

Students who complete the year long Advanced Placement courses will receive weighting when their class rank and GPA are computed. Any student who drops the class prior to the end of the year will not receive the intended benefit of the class and therefore will not receive a weighted grade. There is a fee of approximately $95 to take each AP exam. This fee is subject to change. Some students may be eligible for a fee waiver.

The list of AP classes can be found later under Advanced Placement in this course guide. AP Calculus and AP Chemistry are 2-hour courses and count for double AP weighted GPA.

Final class rank and GPA will be calculated as follows for students who have successfully completed AP courses:
Regular grade Points/Total number of credits + Number of AP Classes/Total possible credits in 4 years.

CLASS RANK

Students are ranked based on the weighted grade point average of all students in the class. Rank is calculated at the end of each semester.

Valedictorian (ranked 1st) and Salutatorian (ranked 2nd) are based on the 8th semester class rankings.

GRADE PROMOTION

To be promoted to the next grade level, the following minimum number of credits is needed by the beginning of a new school year:
Sophomore - 5.5 credits, To be classified as a Sophomore, a student must have earned a minimum of 5.5 credits by the end of the 2nd semester.
Junior - 11 credits, To be classified as a Junior, a student must have earned a minimum of 11 credits by the end of the 4th semester of high school.
Senior - 16 credits, To be classified as a Senior, a student must have earned a minimum of 16 credits by the end of the 6th semester of high school.

There may be additional requirements to promote to the next grade level based on board policy and/or state testing requirements. If students do not meet the minimum number of credits to promote to the next grade level during the school year, they may have the opportunity to earn additional credits through summer school or credit recovery. Students interested in these options should talk to their counselor.

REPORT CARDS

MVTHS does not issue or distribute paper report cards. Parents and guardians may access their student's current grades and academic progress at any time through Skyward Family Access. Parents and guardians are encouraged to regularly review Skyward to monitor their student's grades, attendance, and overall academic progress.

Any problems concerning grades by either student or parent should first be brought to the attention of the teacher. If a problem still exists, then contact the school counselor or the principal. Parents/students should not contact board members or the Superintendent concerning grades.

ADVANCED PLACEMENT

Advanced Placement classes are college-level courses taught in high school that offer a high degree of rigor designed to prepare students for success in college. Any Sophomore, Junior or Senior who meets the prerequisites is encouraged to take AP classes. Students earn weighted high school credit for the class, and have the ability to take the AP Exam in the spring in order to earn college credit. College credit may be awarded based on AP exam scores. Colleges and universities typically give credit for scores of 3-5, while some only give credit for scores of 4 or 5. The AP exam rate is charged by the College Board.

- AP Precalculus
- AP Calculus
- AP Statistics
- AP Biology
- AP Chemistry
- AP Language & Composition
- AP Literature & Composition
- AP American History
- AP Government & Politics
- AP Art History (available to Soph. GPA 3.5)
- AP African American Studies
- AP Studio Art

DUAL CREDIT

Dual Credit classes are high school courses that align with Rend Lake College courses, that are taught by a MVTHS teacher and earns credit both in high school and at the college. They are available to Juniors and Seniors who meet the Accuplacer test scores and entrance requirements. Upon completion of the class with a C or better, students receive non-weighted high school credit along with college credit for the class. Illinois public colleges and universities will accept most college credit earned from RLC. Private schools have the option to accept the credit, as do out of state schools.

- College English
- Contemporary College Algebra
- College Algebra / Trigonometry
- AP Precalculus
- AP Calculus
- AP Statistics
- Creating Entrepreneurial Opportunities (CEO)
- Interrelated Cooperative Education (ICE)
- Ag. Business Management
- Ag. Leadership & Communication
- Horticulture Production & Management
- Childcare I & II
- Medical Terminology
- Basic Nursing Assistant
- Manufacturing I & II
- Automotive Technician I & II

DRIVER EDUCATON POLICY

A student eligible for the Driver Education course at MVTHS must receive a passing grade in at least eight courses during the two semesters prior to taking Driver Education.

CREDIT RECOVERY

Students who are not on track to graduate have the opportunity to take credit recovery courses through an online platform with a course facilitator. If needed, these courses will be recommended by their school counselor. Credit recovery is offered during the school year and as part of Summer School. Students are allowed to make up three credits in Credit Recovery per semester, unless Administrative approval has been given for more.

SUMMER SCHOOL

Summer school information and registration forms are available to parents and students in the Student Services office in the spring semester. A limited number of courses are offered and are typically courses required for graduation. Enrollment in summer school allows students the opportunity to enroll in Credit Recovery classes. The deadline for registration is early spring. An email will be sent to guardians and a letter will be delivered to students who are needing to take summer school.

SCHEDULE CORRECTION POLICY

Students will have the first 3 days of each semester to make a schedule correction. Students will have 5 additional school days to change a class to a Study Hall. Changes in course requests will not be made for the following reasons: to change teachers, to change lunch or study halls, to be with friends, etc. No schedule corrections will be made after the deadlines, other than those that are administrative in nature. An automatic failing grade will be issued if a course is dropped after day 9 of the semester. Occasionally, conflicts develop, such as conflicts between classes or actual scheduling errors. These types of schedule corrections, being administrative in nature, will be made, and need to be addressed as soon as possible in writing, over the phone or in person with your school counselor.

SPECIAL PROGRAMS

STUDENTS WITH DISABILITES

Mt. Vernon Township High School offers a wide continuum of services for students with disabilities. Students who have a medical diagnosis (e.g. Epilepsy, Anxiety, Diabetes, etc.) may be eligible to receive educational accommodations through a Section 504 Plan. To be protected under Section 504, a student must be determined to: have a physical or mental impairment that substantially limits one or more major life activities; or have a record of such an impairment; or be regarded as having such an impairment. To make a referral to determine Section 504 Plan eligibility, please contact your child's School Counselor. Students who are determined eligible for Special Education services will have and Individualized Education Program (IEP). Each and every IEP is unique for each child. Meetings are held annually to review the IEP in a meeting called an Annual Review. At that time, the team will discuss the students present level of performance, review progress, set new goals and objectives, review accommodations, determine educational services and placement, review their Transition Plan, and more. Educational services can look very different for each student and may include one of or any combination of the following:

GENERAL EDUCATION WITH SUPPORT

Students receive instruction in the general education classroom with their IEP accommodations and receive instruction from only a general education teacher. A paraprofessional may be available in this setting to help provide support for the students and help implement IEP accommodations.

CO-TEACHING

Students receive instruction in the general education classroom with IEP accommodations and receive instruction from two teachers, one who is a content specialist and the other who is an instructional specialist.

ACADEMIC SUPPORT / STUDY SKILLS

This course is similar to a structured study hall in which the students are eligible to receive course credit because they will be honing their executive functioning skills in this setting. Students are taught how to monitor their grades and missing assignments in Skyward, along with learning how to prioritize homework completion and develop study skills. The goal is to instill independence and self advocacy skills for students to be able to utilize in their postsecondary settings. Students may also receive IEP accommodations in this setting if they are allowed extended time, alternate setting, and more.

DEPARTMENTALIZED PROGRAMMING

Students receiving specialized instruction for certain classes based upon their deficit areas. Instruction is provided by a Special Education teacher and often a paraprofessional is available to help offer support. This is a smaller group setting and instruction is designed to help the students make progress and decrease the educational gap.

SELF-CONTAINED PROGRAMMING

Students may have one or more classes in this small-group setting to receive structure and support for instructional and behavioral needs. This setting is beneficial for students who struggle with transitioning between classes and who may benefit from having one teacher for multiple classes. Students in this setting may be interested in participating in Special Olympics Traditional and/or Unified Sports.

MT. VERNON EAST

This educational setting is designed to offer a consistent and structured small-group learning environment for students to develop self-control and coping mechanisms as they learn good decision making strategies. This is done in conjunction with receiving individualized academic instruction and making educational progress towards meeting graduation requirements in a focused learning environment.

LIFE SKILLS ACADEMIC PROGRAMMING (9TH-12TH GRADE)

Students will receive small-group academic instruction at their individual level with an emphasis on applying academics to real-life situations. Students will begin to develop vocational and independent living skills. Students in this setting may be interested in participating in Special Olympics Traditional and/or Unified Sports.

READYING ADULTS TO MAXIMIZE SUCCESS (R.A.M.S.) PROGRAM/LIFE SKILLS TRANSITION PROGRAMMING (18-21 year-old students)

Students will receive small-group vocational and independent living skills instruction and training in real life settings within the community to help the young adults successfully transition into sheltered, supportive, or competitive post-secondary outcomes. Students in this setting may be interested in participating in Special Olympics Traditional and/or Unified Sports.

SECONDARY TRANSITIONAL EXPERIENCE PROGRAM OR S.T.E.P. WORK PROGRAM

This is a grant-funded program designed to allow students with disabilities an opportunity to develop independent vocational skills. Students may work on campus, at other local schools, or in a competitive work setting in the community. Students attend a partial day of school and may work during one or more periods of school. They will receive course credit and receive a paycheck for their work. Priority is given to Seniors and Juniors and is based upon recommendations made by the students' IEP Case Managers who examine students' attendance, grades, and behavior. Students on the STEP Work Program become automatic clients of the Division of Rehabilitation Services (DRS) and will meet with a DRS counselor to help students make a seamless transition into their post-secondary settings (work or college).

RELATED SERVICES

Some students may receive Physical Therapy, Occupational Therapy, Speech-Language, Vision, Hearing, and/or Orientation and Mobility services as determined by the IEP Team.

CHILD ABUSE AND NEGLECT

Since July 1, 1975, certified school employees have been required to report suspected cases of child abuse.

The 81st General Assemble amended the Illinois School Code (21-23) to provide a penalty for certified school employees who fail to report a case of suspected child abuse and/or neglect. Hereafter, certified employees who fail to report suspected child abuse or neglect face the possibility of having their state teaching certificate suspended for a period of one year. Suspension is to be done by the Regional or State Superintendent of Education, with hearing rights afforded the teacher and with rights of appeal to the State Certification Board also available.

Any questions about Special Education programming can be directed to the
Mt. Vernon Township High School Special Education Office
Phone 618-246-2100

COLLEGE AND CAREER READINESS

CAREER PLANNING

Mt. Vernon Township High School provides students with many opportunities to prepare themselves for entrance into specific careers. Students are encouraged to discuss with their counselors the sequence of courses that will provide them with the training needed for preparation for their desired career.

COLLEGE PLANNING

In order to provide more options, students should carefully plan a four-year program. Admissions requirements vary from college to college and, in some cases, these will vary by department even within a college. Students who plan to attend college should take as many academic courses as possible in high school as this will enable them to be prepared for college work and to compete with other college students.

CLASSES	Recommended for College Admissions
ENGLISH	4
MATHEMATICS	3
SCIENCE	3
SOCIAL STUDIES	3
FOREIGN LANGUAGE	2
FINE ARTS	1

College-bound students should plan their schedules accordingly. Students who are planning to apply to highly selective colleges and universities should follow the above guidelines and consider four years of mathematics, science, and world language.

PSAT/NMSQT

The National Merit Scholarship Program is an annual academic competition among high school students for recognition and college scholarships. High school students enter the National Merit Scholarship Program by taking the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT®), which serves as an initial screen of over 1.3 million entrants each year, and by meeting published program entry and participation requirements. Students typically take the PSAT test during the Fall of their Junior year.

AUDITING A CLASS

A student that has successfully completed a class, but has not mastered the skills necessary for the next level, may elect to audit the class. A student electing to audit a class must be enrolled in six other classes. The grade earned while auditing a class will not be calculated in the student's cumulative grade point average. A student may be removed from the class if satisfactory progress and/or appropriate classroom behavior is not maintained. The teacher will be notified if a student is auditing his/her class.

TESTING

All students are required to comply with all State of Illinois Testing Laws in order to graduate. The State of Illinois requires that all students be tested in English/ Reading, Math, and Science one time during high school in order to graduate. All high school students must take the ACT college-entrance exam on the state testing date in the spring of their junior year. The ACT assesses English, Reading, Math, and Science. The US Constitution Test is a graduation requirement. All students will take and must pass the US Constitution Test in their American Government & Civics class.

1. Students who are absent on the date(s) the tests are given, a make up test is given on an alternative scheduled date.
2. Transfer students who enroll in the School District after the last available alternative scheduled date(s) shall not be required to take such tests during the school year of their initial enrollment.
3. Special education students shall be required to take standardized achievement tests and school-wide assessments only if required by the Illinois State Board of Education, or if the same is part of their Individualized Educational Program (IEP).
4. The Principal or the Assistant Principal may excuse a student from taking the tests on an individual basis if extenuating circumstances warrant the same.

Completion of standardized achievement tests and school wide assessments, except as provided hereinabove, are required. Failure to complete such tests, except as provided hereinabove, can result in disciplinary action.

SCHOLARSHIP AWARDS PROGRAM

A special program is presented near the end of the school year for recognition of all senior students who have won scholarship(s) during the year. At this time certain awards and several scholarships are given.

COLLEGE LEVEL SPORT PARTICIPATION (NCAA, NCAIA)

Many of our high school athletes are interested in continuing with their sport into their college career. In order to participate in college, most colleges require students to register with a collegiate level sport organization, such as the NCAA/NAIA. These organizations recommend registering at the beginning of junior year to ensure that the athlete will meet the requirements needed to play college level sports within their organization. Please be aware that this will be a task that needs to be completed, it is often overlooked and athletes may miss an opportunity due to not meeting all of the requirements. MVTHS Student Services recommends that all student athletes planning to participate in college athletics complete the following course sequence: *English (4 credits), Math (4 credits), Science (4 credits), Social Studies (4 credits).*

NCAA Registration: www.eligibilitycenter.org **NAIA Registration:** www.playnaia.org/eligibility-center

Core-Course Requirement

Complete 16 core courses in the following areas:



English

English I A/B (Honors
English II A/B (Honors)
Performance Studies
English III A/B
English IV A/B
AP Language & Composition
College English
Creative Writing
Mass Communication/Media
Studies I & II

Foreign Language

Spanish I, II, III, IV
Russian I, II, III

Math

Comprehensive Algebra 1.1
Comprehensive Algebra 1.2
Comprehensive Algebra 2
Integrated Algebra I A/B
Advanced Int. Algebra I A/B
Integrated Geometry
Integrated Algebra II A/B
Advanced Algebra II A/B
Contemporary College Math
College Algebra
Trigonometry
AP Precalculus
AP Calculus
AP Statistics

Social science

American History A/B
AP American History
AP Government & Politics
AP African American Studies
Civics
Economics
Law Studies
Modern History
Political Science
Psychology
Sociology
World Geography
World History A/B

Science

Principles of Science
Biology I
Biopsychology
Chemistry I
Earth Science
Physical Science
Physics
Flesh & Bone
Human Physiology
AP Chemistry
AP Biology
PLTW Principles of Biomedical Science
PLTW Human Body Systems
PLTW Medical Interventions
PLTW Biomedical Innovations

HIGH SCHOOL COURSE PLANNING

Mt. Vernon Township High School provides students with many opportunities to prepare themselves for entrance into specific careers. Students are encouraged to discuss with their counselors the sequence of courses that will provide them with the training needed for preparation for their desired career.

Students are also encouraged consider the following:

- *Graduation Requirements*
- *Postsecondary Admissions Requirements*
- *NCAA Eligibility Requirements*
- *Scholarship Requirements*

SAMPLE 4 YEAR PLAN				
	FRESHMAN YEAR	**SOPHOMORE YEAR**	**JUNIOR YEAR**	**SENIOR YEAR**
English	English I or Honors English I	English II, Honors English II	English III or AP Language	English IV, College English, or AP Literature
Math	Comp. Algebra 1.1, Integrated Algebra I, or Advanced Algebra I	Comp. Algebra 1.2, Integrated Algebra II, Advanced Algebra II, or Geometry	3rd year math credit from continuation of Math flowchart	Not required, but may take math elective
Science	Biology I or Honors Biology I	Biology II, Chemistry, or Earth Science	Not required, but may take science elective	Not required, but may take science elective
Social Studies	World Geography & Civics	Not required, but may take social studies elective	American History or AP American History	Not required, but may take social studies elective
PE/Health	PE & Health Dr. Ed *(based on DOB)*	PE and/or Driver Ed.	PE *(unless exempt)*	PE *(unless exempt)*
Consumer Education			Personal Finance, Resource Management, Business Tech A & B, or Agriculture Business Management	
Elective	Electives from Art, Music, Foreign Language, CTE courses	Electives from Art, Music, Foreign Language, CTE courses	Electives from Art, Music, Foreign Language, CTE courses	Electives from Art, Music, Foreign Language, CTE courses

MVTHS MASTER COURSE LIST 2026-2027

ENGLISH

English I (1.0) (09)
Honors English I (1.0) (09)
English II (1.0) (10)
Honors English II (1.0) (10)
Performance Studies (0.5) (11,12)
English III (1.0) (11)
AP Language & Composition (1.0) (11, 12)
Poetry Appreciation (0.5) (11, 12)
Mass Communication/Media Studies I (0.5) (09, 10, 11, 12)
Mass Communication/Media Studies II (0.5) (09, 10, 11, 12)
AP English Literature & Composition (1.0) (11, 12)
English IV (1.0) (12)
Creative Writing (0.5) (11, 12)
^College English (1.0) (12) **Dual Credit - RLC**
~Yearbook (1.0) (09, 10, 11, 12)
~Vernois News (1.0) (10, 11, 12)

MATH

Comprehensive Algebra 1.1 (1.0) (09)
Integrated Algebra I (1.0) (09)
Advanced Integrated Algebra I (1.0) (09)
Comprehensive Algebra 1.2 (1.0) (10)
Integrated Geometry (1.0) (09, 10, 11, 12)
Comprehensive Algebra II (1.0) (11)
Integrated Algebra II (1.0) (10, 11, 12)
Advanced Algebra II/Trigonometry (1.0) (10, 11, 12)
^College Algebra (0.5) (11,12) **Dual Credit - RLC**
^Trigonometry (0.5) (11,12) **Dual Credit - RLC**
STEM Transitional Math (1.0) (11, 12)
^Contemp. College Math (0.5) (11,12) **Dual Credit - RLC**
AP Precalculus (1.0) (11,12)
^AP Statistics (1.0) (11, 12) **Dual Credit - RLC**
^AP Calculus (2.0) (12) **Dual Credit - RLC**

SCIENCE

Freshman Biology I (1.0) (9)
Honors Biology I (1.0) (9)
Biology I (1.0) (10, 11, 12)
Biology II (1.0) (10, 11, 12)
Flesh & Bone (1.0) (11, 12)
Earth Science (1.0) (10, 11)
Chemistry I (1.0) (10, 11, 12)
Biopsychology (1.0) (11, 12)
AP Biology (1.0) (11, 12)
Human Physiology (1.0) (11, 12)
Physics (1.0) (11, 12)
AP Chemistry (2.0) (11, 12)

SOCIAL STUDIES

Civics (0.5) (09)
World Geography (0.5) (09)
World History A, (0.5) (09, 10, 11, 12)
World History B (0.5) (09, 10, 11, 12)
Law Studies (0.5) (09, 10, 11, 12)
American History (1.0) (11, 12)
AP American History (1.0) (11, 12)
AP Government & Politics (1.0) (11, 12)
Modern History Since 1918 (1.0) (11, 12)
Economics (0.5) (11, 12)
Political Science (0.5) (11, 12)
Sociology (0.5) (11, 12)
Psychology (0.5) (11, 12)

PE & DRIVER ED

Health (0.5) (09, 10)
Basic PE (0.5) (09, 10, 11, 12)
Driver Education (1.0) (09, 10, 11, 12)
Unified PE (0.5) (09, 10, 11, 12) **Requires Application**
Yoga & Pilates (0.5) (09, 10, 11, 12)
Strength & Conditioning (.5) (09, 10, 11, 12)

ART

Introduction to Ceramics (0.5) (09, 10, 11, 12)
Intermediate Ceramics (0.5) (09, 10, 11, 12)
Advanced Ceramics (0.5) (10, 11, 12)
Sculpture (0.5) (09, 10, 11, 12)
Introduction to Drawing (0.5) (09, 10, 11, 12)
Intermediate Drawing (0.5) (09, 10, 11, 12)
Advanced Drawing (0.5) (10, 11, 12)
Digital Photography & Video Prod. (1.0) (10, 11, 12)
Introduction to Painting (0.5) (09, 10, 11, 12)
Intermediate Painting (0.5) (09, 10, 11, 12)
3D Modeling & Animation (1.0) (10, 11, 12)
Drama IA (0.5) (11,12)
Drama IB (0.5) (11,12)
AP Art & Design (1.0) (11,12)
AP Art History (1.0) (10, 11, 12)
AP African American Studies (1.0) (10, 11, 12)

MVTHS MASTER COURSE LIST 2026-2027

FOREIGN LANGUAGE

Spanish I (1.0) (09, 10, 11, 12)
Spanish II (1.0) (10, 11, 12)
Spanish III (1.0) (11, 12)
Spanish IV (1.0) (12)
Russian I (1.0) (09, 10, 11, 12)
Russian II (1.0) (10, 11, 12)
Russian III (1.0) (11, 12)

MUSIC

Cadet Band (1.0) (09, 10, 11, 12)
Beginning Band (1.0) (09, 10, 11, 12)
Varsity Orchestra (1.0) (09, 10, 11, 12)
Symphonic Band (1.0) (10, 11, 12)
Symphonic Orchestra (1.0) (10, 11, 12)
Intro Piano (0.5) (09, 10, 11, 12)
Intermediate Piano (0.5) (09, 10, 11, 12)
Advanced Piano (0.5) (10, 11, 12)
Beginning Choir (1.0) (09, 10, 11, 12)
Beginning Guitar (0.5) (09, 10, 11, 12)
Intermediate Guitar (0.5) (09, 10, 11, 12)
Advanced Guitar (0.5) (10, 11, 12)
Treble Choir (1.0) (10, 11, 12)
Chamber Choir (1.0) (10, 11, 12)
Music Recording & Production (0.5) (10, 11, 12)
Songwriting 101 (0.5) (10, 11, 12)
AP Music Theory (1.0) (10, 11, 12)

AGRICULTURE

Intro to Agriculture Industry A (0.5) (09, 10)
Intro to Agriculture Industry B (0.5) (09, 10)
Horticultural Science A (1.0) (10, 11, 12)
Horticultural Science B (1.0) (10, 11, 12)
Plant & Soil Science (0.5) (10, 11)
Animal Science (0.5) (10, 11)
Ag. Mechanics & Technology (1.0) (11, 12)
*Ag. Business Mgmt. (1.0) (11, 12)
Dual Credit - RLC
Ag. Leadership Comm. (1.0) (11, 12)
Dual Credit - RLC
Wildlife Management (1.0) (11, 12)
Hort. Prod. & Mgmt. (0.5) (11, 12) **Dual Credit - RLC**
Floral Design & Marketing (0.5) (11, 12)
Veterinary Technology (1.0) (11, 12)
SAE Super. Ag. Ed. (FFA Record book) (.25) (11, 12)

BUSINESS, MARKETING, & COMPUTER EDUCATION

*Business & Tech. Concepts A (0.5) (09, 10, 11, 12)
*Business & Tech. Concepts B (0.5) (09, 10, 11, 12)
Accounting I (1.0) (10, 11, 12)
Business Law (1.0) (10, 11, 12)
Investing 101 (0.5) (10, 11, 12)
Accounting II (1.0) (11, 12)
*Personal Finance (0.5) (11, 12)
Marketing & Advertising (1.0) (10, 11, 12)
Business Management (0.5) (10, 11, 12)
Interrelated Cooperative Ed (3.0) (12)
Dual Credit - RLC, Requires Application
CEO (2.0) (12) **Dual Credit - RLC, Requires Application**

FAMILY & CONSUMER SCIENCES

Intro to Family & Consumer Science (0.5) (9,10)
Food & Nutrition I (0.5) (10, 11)
Food & Nutrition II (0.5) (10, 11, 12)
Child Development (0.5) (10, 11, 12)
Child Care I (1.0) (11, 12)
Dual Credit - RLC, Requires Application
Child Care II (2.0) (12) **Dual Credit - RLC**
Culinary Arts I (2.0) (11, 12) **Requires Application**
Culinary Arts II (2.0) (12)
*Resource Management (0.5) (11, 12)
Parenting (0.5) (11, 12)
Adult Living (0.5) (11, 12)

HEALTH SCIENCE TECHNOLOGY

Orientation to Health Occupations (0.5) (09, 10, 11, 12)
Principles of Biomedical Sci.-PLTW (1.0) (09, 10, 11, 12)
Human Body Systems-PLTW (1.0) (10, 11, 12)
Medical Terminology (0.5) (11, 12) **Dual Credit - RLC**
Phlebotomy (0.5) (11, 12) **Dual Credit - RLC**
Medical Intervention-PLTW (1.0) (11, 12)
^Basic Nursing Assistant (2.0) (11, 12)
Dual Credit - RLC, Requires Application

MVTHS MASTER COURSE LIST 2026-2027

TECHNOLOGY & ENGINEERING

Industry Basics AW (Auto/Welding) (0.5) (09, 10, 11, 12)
Industry Basics CE (Constr./Electricity) (0.5) (09, 10, 11, 12)
Intro to Engineering Design-PLTW (1.0) (09, 10, 11, 12)
Principles of Engineering-PLTW (1.0) (10, 11, 12)
Digital Electronics-PLTW (1.0) (11, 12)
Intro to Computer Programming (0.5) (09, 10, 11, 12)
Orientation to Manufacturing I (0.5) (10, 11, 12)
Orientation to Manufacturing II (0.5) (10, 11, 12)
Intro to Electricity (0.5) (10, 11, 12)
Intro to Construction (0.5) (10, 11, 12)
Intro to Auto (0.5) (10, 11, 12)
Building Trades I (1.0) (11, 12)
Building Trades II (1.0) (12)
Automotive Technician I (2.0) (11, 12)
Dual Credit - RLC, Requires Application
Robotics I (1.0) (10, 11, 12)
Robotics II (1.0) (11, 12)
Manufacturing I (2.0) (11, 12) **Dual Credit - RLC**
Industrial Maintenance I (1.0) (11, 12)
Automotive Technician II (2.0) (12) **Dual Credit - RLC**
Manufacturing II (2.0) (12) **Dual Credit - RLC**
Industrial Maintenance II (1.0) (12)

KEY
0.5 One semester length class
1.0 Full year class
2.0 Full year, two period class
*** Satisfies Consumer Education Requirement, must complete Business & Tech. Concepts A & B or Ag. Business Management if either of these options are chosen**
**** Must earn a 3 on the AP Exam to count as Dual Credit**
~ Does not satisfy graduation requirement
^ Must meet RLC Testing requirement
A 1st semester class only
B 2nd semester class only
PLTW A Project Lead the Way class
09, 10, 11, 12 Grade level course is offered
I, II, III, IV Courses taught in sequence
Students must be enrolled in at least 6 subjects each semester

English I EN100

Credit: 1 **Grade: 09**

English I includes the four strands of English (reading, writing, speaking, and listening). The focus of the reading is literature including fiction (short stories and novels), non-fiction, poetry, and drama. The fall semester features The Odyssey and the spring semester focuses on Romeo and Juliet. Students will use the writing process to write essays (pre-writing strategies, drafting, revising and rewriting, editing, and final copy). All incoming freshmen are required to take English I. The course will include ACT preparation, with an emphasis on grammar skills, reading comprehension strategies, and logical expression.

Honors English I EN101

Credit: 1 **Grade: 09**

Prerequisites: *Entry Reading Map score of at least a 226, recommendation from 8th grade English teacher, and enrolled in other higher core classes their freshman year such as Advanced Algebra I and/or Biology*

Honors English I focuses on the study of various types of literature and writing, speaking, and listening for a variety of purposes. The course incorporates the appropriate use of technology. The literature includes fiction, poetry, non-fiction, the epic, drama, and the novel representative of different cultures, eras, and ideas. Writing assignments include major multi draft essays and informal types of writing such as journals. The course activities include listening and speaking skills through oral instruction, class and peer discussions, cooperative learning, performance and role playing, and formal speaking. Grammar will be taught in isolation as well as through writing.

Honors English I will have a "similar" base curriculum as the traditional English I course, but with some slight differences to challenge students with an emphasis on building the essential skills for college readiness that will support student success in high school and project pathways to higher education.

English IIA EN200A

Credit: 1 **Grade: 10**

English IIA combines the study of writing and literature with a variety of speaking and listening activities. The literature includes fiction, poetry, non-fiction, and drama. The writing assignments include expository, narrative, and persuasive compositions. Teachers may assign additional kinds of writing. The course will include ACT preparation, with an emphasis on grammar skills, reading comprehension strategies, and logical expression.

Honors English II EN201

Credit: 1 **Grade: 10**

Honors English II focuses on the study of literature, in particular the use of author purpose, tone, and occasion to develop ideas. The course incorporates the appropriate use of technology. The literature includes fiction, poetry, non-fiction, drama (plays), and creative writing. Writing assignments include major multi draft essays and informal types of writing such as journals. The course activities include listening and speaking skills through oral instruction, class and peer discussions, cooperative learning, performance and role playing, and formal speaking. Grammar will be taught in isolation as well as through writing. An intense focus is annotation and ACT preparation.

Honors English II will have a "similar" base curriculum as the traditional English II course, but with some slight differences to challenge students with an emphasis on building the essential skills for college readiness that will support student success in high school and project pathways to higher education. Honors English II will be treated as a PRE AP course.

Performance Studies EN210

Credit: 0.5 **Grade: 11,12**

This is a one semester elective. It is designed to give students opportunities to explore advanced forms of communication. Through assignments in impromptu, informative, persuasive and various other areas of performance and public speaking, students will improve their abilities to think logically, organize ideas, and present information effectively.

English III EN300

Credit: 1 **Grade: 11**

English III is a requirement for junior students not enrolled in Advanced Placement Language and Composition. The first semester focuses on short stories and Arthur Miller's play The Crucible is the major drama text. English III writing will have an emphasis on citing textual evidence. Students will also write expressively in notebooks and journals and work collaboratively in groups on projects and presentations. The course will include ACT preparation, with an emphasis on grammar skills, reading comprehension strategies, nonfiction texts, and logical expression.

The second semester of this course focuses on novels, poetry, and research. It will include the reading of an American novel and will also include a research paper with instruction on MLA formatting. Students will write expressively in notebooks and journals and work collaboratively in groups on projects and presentations. The course will include ACT preparation, with an emphasis on grammar skills, reading comprehension strategies, nonfiction texts, and logical expression.

AP English Language & Composition EN310

Credit: 1 **Grade: 11,12**

Advanced Placement

Prerequisites: *Spring MAP reading score of >221; or grade of A or B in English I/II*

AP English and Language Composition will enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. Students will write in both informal and formal contexts in multiple drafts to gain authority and learn to take risks in writing. In addition, the informed use of research materials and the ability to synthesize varied sources (to evaluate, use, and cite sources) are integral parts of the AP English and Language Composition course. Students will develop a set of skills which will allow them to formulate and defend positions in various contexts, and to read critically, realizing the validity of the texts presented. Goals of the AP English and Language Composition class include development of skills needed to use language and vocabulary needed to achieve rhetorical competence, critical reading of primarily non-fiction and some fiction texts to reinforce analytical skills, and development of an awareness for non-print and visual texts. AP English Language and Composition students are expected to take the AP English and Language Composition Exam at the conclusion of the year. The course may be taken instead of English III. Weighted grade awarded upon completion of the AP English and Language Composition exam.

Poetry Appreciation EN320

Credit:0.5 **Grade: 11,12**

Poetry Appreciation focuses on the study of poetry and the poetic devices used in literature, in particular though the use of literary techniques (alliterative devices, figurative language, ect). The course incorporates the appropriate use of technology. The literature includes poetry, articles analyzing poetry, and fiction that alludes to poetry/devices. Writing assignments include creative poetic writing, literary analysis, and a research paper that is college-level. The course activities include listening and speaking skills through oral instructions, class and peer discussions, cooperative, performance and role playing, and reading original works in class.

This class will have college-level applications as often as possible, with a special focus on using this analysis to connect to broader ideas and current events that relate to poetry.

Mass Communication/ Media Studies I EN400A

Credit:0.5 **Grade: 09, 10, 11, 12**

Mass Communication/Media Studies I is a semester course that will focus on journalistic writing, research and photojournalism for use in MVTHS publications Vernois News, Vernois News Online, and Vernois yearbook, print and online media management and public relations, and advertising and sales. Each area of instruction will also include an emphasis on media career connection and development. MC/MS will offer a practical preparation for various media careers, alongside opportunities to analyze and evaluate quality media in today's world. This course is an elective course open to freshman, sophomore, junior, and senior students interested in journalism, radio, TV, film, and multimedia areas of study

Mass Communication/ Media Studies II EN400B

Credit:0.5 **Grade: 09, 10, 11, 12**

Prerequisites: *EN400A–Mass Comm./Media Studies (MC/MS) I*

Mass Communication/Media Studies II is a semester course that will focus on the development of leadership opportunities in MVTHS publications Vernois News, Vernois News Online, and Vernois yearbook, journalistic writing, research and photojournalism for use in print and online media management and public relations, and advertising and sales.Each area of instruction will also include an emphasis on media career connection and development. MC/MS will offer a practical preparation for various media careers, alongside opportunities to analyze and evaluate quality media in today's world. This course is an elective course open to freshman, sophomore, junior, and senior students interested in journalism, radio, TV, film, and multimedia areas of study.

AP English Literature & Composition — EN410

Credit: 1 **Grade: 11,12**
Advanced Placement
Prerequisites: *Spring MAP reading score of >221; or grade of A or B in English I/II*
This course offers college-bound juniors and seniors experience in analyzing works of poetry and literary prose for stylistic elements in the manner of the College Board Advanced Placement Examinations in "English: Literature and Composition." The course will prepare students to take the Advanced Placement examinations in English. AP English Literature and Composition students are expected to take the AP English Literature and Composition Exam at the conclusion of the year. Weighted grade awarded upon completion of the AP Exam.

English IV — EN415

Credit: 1 **Grade: 12**
Regular: *RLC, ENGL 1411 - Accelerated Learning Program (not dual-credit)*
English IV is a course for seniors that focuses on literature analysis, critical thinking, and advanced writing. Students will study different types of literature and learn to interpret and evaluate texts critically. They will also improve their writing skills, including research, argumentation, and composition. The course emphasizes language skills, oral communication, and critical thinking. It prepares students for college-level reading, writing, and analysis, and helps them become confident and thoughtful communicators.

Creative Writing — EN420

Credit:0.5 **Grade: 11,12**
This is a one semester elective for juniors and seniors. It provides students with opportunities to write creatively and produce documents such as fictional short stories, autobiographical narratives, poetry, tall tales, and fairy tales.

College English — EN460

Credit: 1 **Grade: 12**
Dual Credit: *RLC, ENGL 1101 - Rhetoric and Composition I (3 credit hours) and ENGL 1102 - Rhetoric and Composition II (3 credit hours)*
Prerequisites: *Must pass Accuplacer Testing requirements for Reading and Writing*
Students may receive high school and an Illinois college credit for this course (Illinois community colleges and state universities), provided they earn at least a C for a final grade. This course will be taught as a freshman college course. Students will use the library, learn to read more closely and effectively, and to write good expository prose based on personal observations and readings. Students are required to take the Rend Lake College departmental final examination.

Yearbook — EN900

Credit: 1 **Grade: 09,10,11,12**
Prerequisites: *Must pass 1st semester to advance to 2nd semester*
Yearbook is a two-semester course that will focus on the design and development of the MVTHS yearbook, Vernois, an annual publication that documents the school year. The course will include a focus in four areas: Technology and Design, Photography, Business and Management, and Research and Writing. Students will be actively involved in the day to day operation of all aspects of Vernois yearbook; students will engage in the complete process of creating the 168+ page publication. All Yearbook students will be staff members of Vernois yearbook; all Yearbook students will also be expected to complete end-of-year production tasks after the school year ends (usually within 2-3 weeks). This course is an elective course open to freshman, sophomore, junior, and senior students interested in journalism, radio, TV, film, ad sales, marketing, and multimedia areas of study. Yearbook Class may be taken multiple years, with credit each year.

Vernois News — EN920

Credit: 1 **Grade: 10,11,12**
Prerequisite: *EN400 – Mass Communication/Media Studies (MC/MS) I and II*
Vernois News is a two-semester course that will focus on serving in leadership opportunities (Editor in Chief, Managing Editor, News, A&E, Opinion, Feature, Sports Editor, Business Manager, Social Media Director, Advertising Director) in MVTHS publications Vernois News and Vernois News Online. Students will utilize journalistic writing, research and photojournalism for use in print and online media management, public relations, advertising, and sales. Production of both Vernois News and Vernois News Online will be the primary focus of the course. Each area of instruction will also include an emphasis on media career connection and development. Vernois News will offer a practical preparation for various media careers, alongside daily opportunities to analyze, evaluate and produce quality media at the high school level for a large school and community audience. This course is an elective course open to sophomore, junior, and senior students interested in journalism, radio, TV, film, and multimedia areas of study.

Comprehensive Algebra 1.1 MA115

Credit: 1 **Grade: 09**

This course serves as one of the Freshmen Academy's introductory mathematics courses at MVTHS. Students are enrolled in this course following successful completion of 8th grade mathematics. Students will need to successfully complete Comprehensive Algebra 1.1 and 1.2 to meet the Algebra 1 graduation requirement. Common core mathematics standards include topics/concepts related to: solving single-variable equations/inequalities, linear equations and inequalities, systems of linear equations/inequalities, evaluating functions, linear and exponential functions. Successful completion of Comprehensive Algebra 1.1 prepares students for enrollment in Comprehensive Algebra 1.2

Integrated Algebra I MA122

Credit: 1 **Grade: 09**

This course serves as one of the Freshmen Academy's introductory mathematics courses at MVTHS. Placement in this course is based in part upon 8th grade MAP Test Scores, teacher recommendations, successful completion of 8th grade mathematics, and other math-related factors. This course, in contrast to Comprehensive Algebra 1.1, starts at a more advanced set of lessons, progresses at a faster pace, and covers additional advanced lessons. In comparison to Comprehensive Algebra 1.1, common core mathematics standards include topics/concepts related to: solving single-variable equations/inequalities, linear equations and inequalities, systems of linear equations/inequalities, evaluating functions, linear and exponential functions, arithmetic with polynomials, solving quadratic equations, quadratic functions, and univariate statistics. Successful completion of Integrated Algebra I prepares students for enrollment in Integrated Algebra II.

Comprehensive Algebra 1.2 MA175

Credit: 1 **Grade: 10**

Prerequisite: *Comprehensive Algebra 1.1*

This year-long course builds on the concepts presented and taught in Comprehensive Algebra 1.1. Topics include: Linear Functions, Systems of Equations, Polynomials, Factoring, Graphing and Solving Quadratic Equations, Geometry Basics, Radicals and Statistics.

Integrated Geometry MA190

Credit: 1 **Grade: 09,10,11,12**

Prerequisite: *Integrated Algebra 1 equivalent or concurrent enrollment*

The first semester of Geometry includes the study of points, lines and planes, deductive reasoning, parallel lines, and congruent triangles. Algebra concepts and skills are also interwoven with the geometric concepts. The second semester of Geometry includes the study of quadrilaterals, similar polygons, right triangles, and the inequalities in geometry.

Advanced Integrated Algebra I MA130

Credit: 1 **Grade: 09**

Prerequisite: *MAP Score of 240 or higher and/or teacher recommendation*

This course serves as one of the Freshmen Academy's introductory mathematics courses at MVTHS. Placement in this course is based in part upon 8th grade MAP Test Scores, teacher recommendations, successful completion of 8th grade mathematics, and other math-related factors. Advanced Algebra 1 reflects the Illinois learning standards at the high school level and is designed to give students the requisite skills for all future mathematics courses through real world problem solving. Students will explore writing, solving and graphing linear equations and inequalities, powers and exponents, quadratic equations, polynomials, factoring and statistics. Teachers will also pace assessments at an accelerated rate throughout this course as appropriate to student readiness. Advanced Algebra I provides the logic and modeling skills necessary to solve real world situations and scenarios vital to success in our continually changing global society. Advanced Algebra I offers the foundation for success in future, higher-level math courses. Students will develop an understanding of and appreciation for using mathematics to analyze patterns and explain solutions to complex real world problems in precise and logical detail, using modern technology where appropriate. Special Note: Instruction will be more rigorous in this class than the entry level Algebra I course. Students can concurrently enroll in Geometry. Successful completion of Advanced Algebra 1 prepares students for enrollment in Advanced Algebra 2.

Comprehensive Algebra II MA205

Credit: 1 **Grade: 11**

Prerequisite: *Comprehensive Algebra 1.1 and 1.2 or Integrated Algebra I with recommendation*

Comprehensive Algebra II is a continuation of the algebraic processes begun in Comprehensive Algebra 1.1 and 1.2. This course includes solving equations, inequalities, graphing, functions, powers, roots, logarithms, complex numbers, polynomials, and quadratic relations.

Integrated Algebra II MA290

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

Prerequisite: *Integrated Algebra 1*

Integrated Algebra II is a one-year course that includes a review of Integrated Algebra I topics and the study of more advanced topics in Algebra. The first semester includes the study of equations and inequalities, linear equations and functions, systems of equations and inequalities, and quadratic functions. The second semester includes the study of polynomial functions, powers and radicals, and exponential and logarithmic functions.

Advanced Algebra II/ Trigonometry MA310

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

Prerequisite: *Algebra I with grade of B or above*

Advanced Algebra II/Trigonometry will begin with a quick review of all the topics of Algebra I. Advanced Algebra II/Trigonometry will also include the study of advanced factoring, systems of linear equations, graphing linear and quadratic functions, linear inequalities, exponents, radicals, complex numbers, absolute values inequalities, and solving word problems.

College Algebra MA320A

Credit:0.5 **Grade: 11,12**

Dual Credit: *RLC, MATH 1108 - College Algebra (3 credit hours)*

Prerequisite: *Integrated Algebra II; Must pass Accuplacer Testing requirements for QAS*

College Algebra is a one-semester course that includes a study of solutions and graphs of linear and quadratic equations and inequalities, analysis of functions, and their graphs. Also covered are conic sections, solution and graphing of systems of equations and inequalities, matrices and determinants. Graphing calculators and real-life applications will be used throughout the course. Students may receive high school credit and Illinois college credit.

Trigonometry MA320B

Credit:0.5 **Grade: 11,12**

Dual Credit: *RLC, MATH 1109 - Trigonometry (3 credit hours)*

Prerequisite: *Algebra II and must pass College Algebra with 70% or higher*

Trigonometry is a one-semester course that includes a study of radian and degree measures, trigonometric functions and identities and their use in solving triangles and practical problems. Also included are graphical methods, graphing calculators, solving trigonometric equations, and vectors. Students may receive high school credit and Illinois college credit.

STEM Transitional Math MA380

Credit: 1 **Grade: 11,12**

Math course framework built around essential algebraic competencies designed to prepare students for college and career pathways in areas such as: Science, Technology, Engineering, and Math or STEM which require advanced algebraic skills or calculus. Course design will enable students to transition directly into credit bearing college-level algebra courses. Students will engage in deepening conceptual understanding using algebra and mathematical applications of algebra and functions and how functions naturally arise using authentic modeling situations. The function families (linear, polynomial, rational, radical, and exponential) will be emphasized. Additionally, the course shall emphasize the eight mathematical practices, particularly modeling within the setting of authentic and contextualized applications, and upon completion, the student should be able to: demonstrate and justify both orally and in writing conceptual understanding of functions combined with advanced algebraic knowledge to solve complex, contextualized, multi-step problems in authentic settings.

Contemporary College Math MA390

Credit:0.5 **Grade: 11,12**

Dual Credit: *RLC, MATH 1107 - Contemporary College Math (3 credit hours)*

Prerequisite: *Algebra II, Intro to Integrated Algebra III (MA 1407) or Accuplacer placement*

This course is traditionally taken opposite of successful completion of Integrated Algebra III. Topics covered may include set/logic, graph theory, probability, statistics, geometry, and other selected topics. Three to four of the above are studied in depth. This course can be taken for Rend Lake College dual credit (MA 1107) and is designed to fulfill the general education math requirements for the Rend Lake College for the Associate of Arts degree.

AP Precalculus MA401

Credit: 1 **Grade: 11,12**
Advanced Placement
Prerequisite: *Algebra II, Integrated Algebra III (MA 1407) or Accuplacer placement*

In AP Precalculus, students explore everyday situations and phenomena using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. AP Precalculus prepares students for other college-level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. Students study each function type through their graphical, numerical, verbal, and analytical representations and their applications in a variety of contexts. Furthermore, students apply their understanding of functions by interpret, and apply information from a function model for a given context or data set, subject to assumptions and limitations related to the context. Through the course, students strengthen their procedural and symbolic fluency skills needed for higher level mathematics. While studying each function type, students solve equations and construct equivalent analytic representations in both contextual and purely mathematical settings. constructing and validating appropriate function models for scenarios, sets of conditions, and data sets, thereby gaining a deeper understanding of the nature and behavior of each function type. Modeling is also a key feature of the course. Students select, construct, and validate function models using transformations of functions and regressions. Students learn to select mathematical models-based characteristics of a bivariate data set; characteristics of covarying quantities and their relative rates of change; or a set of characteristics such as zeros, asymptotes, and extrema.

AP Statistics MA405

Credit: 1 **Grade: 11,12**
Advanced Placement
Dual Credit: *RLC, MATH 1111 - Statistics (4 credit hours)*
Prerequisite: *AP Precalculus or College Algebra and Trigonometry; Must pass Accuplacer Testing requirements for Elementary Algebra*

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: Describing patterns and departures from patterns; Sampling and Experimentation: Planning and conducting a study; Anticipating Patterns: Exploring random phenomena using probability and simulation; Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course.

AP Calculus MA410

Credit: 2 **Grade: 12**
Advanced Placement
Dual Credit: *RLC, MATH 1121 - Calculus & Analytic Geometry (5 credit hours)*
Prerequisite: *AP Precalculus or College Algebra and Trigonometry; Must pass Accuplacer Testing requirements for Elementary Algebra*

The first semester of AP Calculus will include the study of elementary functions, properties of functions, and limits. It will also cover the study of differential calculus including the first and second derivative and applications of the derivative.

The second semester of AP Calculus will cover the study of integral calculus. This will include ant derivatives, applications of ant derivatives techniques of integration, the definite integral and applications of the integral. Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester college calculus course devoted to topics in differential and integral calculus.

Freshman Biology I SC190

Credit: 1 **Grade: 09**

This is a laboratory-based course focused on life processes, biodiversity and adaptations, and biological interactions for freshman students. Topics covered and explored during this course are organism growth and development, energy and matter in biological systems, molecular and classical genetics, natural selection and evolution, biodiversity and human impacts, and more. The course emphasizes scientific inquiry, critical thinking, problem solving, experimental design, and scientific communication.

Honors Biology SC195

Credit: 1 **Grade: 09**

Prerequisite: *Meet or exceed in Illinois Assessment, Entry Reading Map scores of at least a 226, recommendation form 8th grade English teacher, and concurrently enrolled in Integrated Algebra I or Advanced Integrated Algebra I.*

Honors Biology is an advanced laboratory-based course focused on life processes, biodiversity and adaptation, and biological interactions for freshman students. Topics covered during this course include scientific inquiry, biochemistry, central dogma, molecular biology, and heredity, natural selection, cellular metabolism, homeostasis, and ecology. The course emphasizes scientific inquiry, critical thinking, problem solving, experimental design, and scientific communication.

Biology I SC200

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

Biology is a laboratory-based course focused on life processes, biodiversity and adaptations, and biological interactions. Topics covered during this course include scientific inquiry, biochemistry, central dogma, molecular genetics and heredity, natural selection, cellular metabolism, homeostasis, and ecology. The course emphasizes scientific inquiry, critical thinking, problem solving, experimental design, and scientific communication (i.e. scientific writing).

Biology II SC310

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

Prerequisite: Successful completion of Biology I

Biology II is a laboratory-based course focused on life processes, biodiversity and adaptation, and biological interactions discussed in depth for those inquiring about a career in Biological Science . Topics covered during this course include scientific inquiry, biochemistry, central dogma, molecular biology, and heredity, natural selection and evolution, cellular metabolism, homeostasis, human impacts on the environment, and ecology. The course emphasizes scientific inquiry, critical thinking, problem solving, experimental design, and scientific communication while focusing on data-driven analysis and conclusions.

Flesh and Bone SC205

Credit: 1 **Grade: 11,12**

Prerequisite: *Biology I*

This course is designed for those who wish to seek a career in forensics, with a focus in either medicine or criminal justice. Forensic anthropologists have been known to work closely with police officers, lawyers, doctors, and medical examiners. Students in this course will explore the anatomy of the skeletal system, the process of decomposition, the identification of unknown human remains, analysis of skeletal trauma, and the reconstruction of biological profiles of skeletal remains. Throughout the year, students will practice critical thinking and be given the opportunity to engage in many problem-solving scenarios. Furthermore, this course will utilize group collaboration and will foster independent thinking through class discussions and hands-on lab activities.

Earth Science SC210

Credit: 1 **Grade: 10,11**

Earth Science is the branch of Science which studies planet Earth and its setting in the universe. Areas to be explored include astronomy, geology, and meteorology. Course content is presented through lectures, discussions, video programs, demonstrations, and some lab experiences.

Chemistry I SC300

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

Prerequisite: *Biology and successful completion of Integrated Algebra I*

Chemistry is the science which investigates the structure and properties of matter from the individual atom to the most complex compound. Through lecture, class discussion, and much actual laboratory experience, students are encouraged to wonder, think, and learn about the "makeup" of the interesting world in which they live.

Biopsychology SC305

Credit: 1 **Grade: 11,12**

Prerequisite: *Biology*

This course is designed for those who wish to go into the medical field, become a clinician, or major in psychology in college. Using basic principles of neuroanatomy, neurophysiology, and neurochemistry, we will examine how genes and the body's internal and external environment act upon the brain to produce perceptions, control body functions, and generate behavior. Specific topics will include learning and memory, sleep, hunger, thirst, neuronal function, synaptic transmission, sensory processing, emotions, recovery of function after brain damage, and neurological and neuropsychiatric disorders. This course will also help students learn to think as scientists through the critique/criticism of current scientific literature through a unique lens as we blend both the physical and social sciences.

AP Biology SC320

Credit: 1 **Grade: 11,12**

Advanced Placement

Prerequisite: *Biology I and Chemistry I with a grade of B in both courses*

This course will emphasize problem solving while employing science process skills. It is a rigorous science-based course, with a strong laboratory component from AP Biology College Board Labs. It is intended for students who have demonstrated a willingness to commit considerable time to studying and completing assignments outside of class, The following topics will be discussed: 1) The Chemistry of Life 2) The Cell 3) Cell Processes: Energy and Communication 4)From Gene to Protein 5) Evolution 6)Biodiversity and Ecology Review of all discussed subjects with sample practice exams throughout the year prior to taking the AP test.

Human Physiology SC330

Credit: 1 **Grade: 11,12**

Prerequisite: *Biology I and Chemistry I with a grade of B in both courses*

Human Anatomy and Physiology students study the structure and the function of the human body. This course includes a detailed study of the major organ systems found in the human body—aided by the dissection of the fetal pig. Human Anatomy and Physiology is designed for students interested in becoming a medical doctor, nurse, medical technician, physical therapist, P. E. teacher, coach or any student interested in this field of science.

Physics SC400

Credit: 1 **Grade: 11,12**

Prerequisite: *Biology and successful completion of Algebra I*

This is a two-semester college preparatory course which consists of lectures, demonstrations, and laboratory work. Students who are interested in knowing more about the physical world in which they live will study basic physics topics such as Kinematics, Newton's Laws, Vectors, Momentum, Work, Energy, Power, Circular Motion, Thermodynamics, Waves, and Flight.

AP Chemistry SC410

Credit: 2 **Grade: 11,12**

Advanced Placement

Prerequisite: *Spring MAP reading score of <221; SC300 - Chemistry I*

AP Chemistry is an advanced placement course designed to prepare the student for the AP Chemistry exam and covers the equivalent of one 2 Semesters of college level General Chemistry. It is a rigorous math-based course, with a strong laboratory component. It is intended for students who have demonstrated a willingness to commit considerable time to studying and completing assignments outside of class, and who have successfully completed a prior course in Chemistry during high school. The primary goal of the course is for students to understand the basic principles of modern chemistry- including Stoichiometry, reactions, kinetics, equilibrium, thermodynamics and electrochemistry- while also demonstrating the ability to use that understanding in the solution of meaningful communication of mathematically based laboratory and textbook problems.

Civics SO100

Credit: 0.5 **Grade: 09**

This course focuses on students gaining an understanding of the world's physical features, how they blend with social systems and how they affect economies, politics and human interaction. Students will learn the broad concepts of spatial patterns, mapping, population and physical systems (land, air, water). The combination of geographic facts and broad concepts will provide a deeper understanding of geography and its effects on individuals and societies.

World Geography SO110

Credit: 0.5 **Grade: 09**

Civics, a one-semester course required at the freshmen level, is a study of national, state and local government with special emphasis on both the U.S. and Illinois Constitutions. Underlying the course of study, there is an attempt to make the student aware of the rights, duties, and responsibilities of the individual in a democratic society. Students completing Civics with a passing grade will have fulfilled graduation requirements for passage of the U.S. Constitution and Illinois Constitution tests.

World History A SO120A

Credit: 0.5 **Grade: 09,10,11,12**

World History A—very early times to 1100 A.D.— is a first semester course which presents a general view of the development of mankind from early man through the middle ages. Early Incas and Aztecs in America, and Civilizations in India and China are included.

World History B SO120B

Credit: 0.5 **Grade: 09,10,11,12**

World History B—after 1500 A.D.— is a second semester course which presents a general view of man in modern civilization since the middle ages. This course includes the time of the French Revolution, the rise of communism, World War I, the rise of Hitler, and World War II. If time permits, the post-World War II era is included.

Law Studies SO205

Credit: 0.5 **Grade: 09,10,11,12**

Law Studies courses examine the history and philosophy of law as part of U.S. society and include the study of the major substantive areas of both criminal and civil law, such as constitutional rights, torts, contracts, property, criminal law, family law, and equity. Although these courses emphasize the study of law, they may also cover the workings of the legal system

American History SO300

Credit: 1 **Grade: 11,12**

This is a required course for juniors or seniors. The first semester will survey our nation's history from its beginnings to the end of the Civil War in 1865. Emphasis is given to the development of democratic representative government, territorial expansion, and the development of our nation. The second semester will survey our nation's history from 1865 to the present. Special emphasis is given to the settlement of the west, the economic changes making the United States a major power, the forces influencing Americans, and the role of the U.S. in world affairs.

AP American History SO310

Credit: 1 **Grade: 11,12**

Advanced Placement

Prerequisite: *Spring MAP reading score of <221*

This course is important for college bound juniors and seniors as it replaces American History for advanced students. While it covers traditional subjects from the Colonial Era through the Twentieth Century and satisfies the requirement for proficiency in the U. S. Constitution, it also exposes students to a variety of topics, concepts, and issues not ordinarily covered in the regular curriculum. In addition, students are encouraged to investigate historical problems, develop opinions, and defend positions – thus developing critical thinking skills they will use in college and later careers. AP American History students are expected to take the AP American History Exam at the conclusion of the year. Weighted grade upon completion of the AP American History exam.

AP Government & Politics SO315

Credit: 1 **Grade: 11,12**

Prerequisite: *World History A&B, American History, or AP American History*

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis.

Modern History Since 1918 SO400

Credit: 1 **Grade: 11,12**

This course, available to seniors and those juniors with a C average or above, is designed to help develop an understanding of today's world by the study of recent history since World War I. It covers topics such as the Roaring 20's, Depression and New Deal, World War II, Cold War and various social, political and economic changes of the 20th century. There is a heavy emphasis on cause and effect and higher order thinking skills. In addition, students will be expected to become familiar with basic current events that shape the world around us.

Economics SO410

Credit: 0.5 **Grade: 11,12**

A one-semester course open to juniors and seniors. A very vital course to a better understanding of the American free enterprise system as it relates to the other economic systems of the world. Units of study include: consumption, production, exchange, money, credit and banking, distribution of personal income, the stock market, government and the economy, major economic problems, and recent trends in economics.

Political Science SO420

Credit: 0.5 **Grade: 11,12**

A one-semester course, open to juniors and seniors This course is the study of how our Federal government works and how the various levels of government relate to our everyday lives. It includes a background study of our democratic form of government, the powers of its three branches, the relationship of federal to state and local government, nomination and elections, and our obligations as citizens in a democracy.

Sociology SO430

Credit: 0.5 **Grade: 11,12**

A one-semester course, open to juniors and seniors, which studies the way men behave in their culture which is usually determined by their relations to each other and by their membership in groups. Family problems, marriage and divorce, education, minority groups, religion, crime, and delinquency are also studied from a social point of view.

Psychology SO440

Credit: 0.5 **Grade: 11,12**

A one-semester course, open to juniors and seniors. A study is made of the activities of the normal adult and his response to different situations. The development of personality, how to study effectively, and explanation of intelligence testing as well as situations common to everyday life are studied.

Health PH101

Credit: 0.5 **Grade: 09,10**

Health is a one-semester course required for graduation. Primary emphasis is directed toward current health issues critical to the adolescent. Special attention is focused upon understanding of family living, human reproduction, communicable disease, mental-emotional health, drug education, nutrition, weight control, as well as select other areas of interest. It is the purpose of the course to encourage and guide students to a better understanding of themselves and to make sound decisions regarding their own personal health. There are no prerequisites and all health classes are coeducational.

Basic PE PH200

Credit: 0.5 **Grade: 09,10,11,12**

Advanced team and individual sports, plus lifetime activities. Class will focus on fitness concepts and developing personal fitness goals addressing the health-related fitness components of flexibility, muscular strength, muscular endurance, cardiovascular endurance, and body composition. This class will concentrate on lifetime activities, strategy, problem solving, and team building.

Driver Education PH201

Credit: 0.5 **Grade: 09,10,11,12**

To meet State legal requirements, eligible students will be required to enroll in one semester of Driver Education. A student eligible for the Driver Education course at Mt. Vernon Township High School must receive a passing grade in at least eight courses during the two semesters prior to taking Driver Education. This course will include 30 hours of classroom instruction in Driver Education and 6 hours of behind-the-wheel instruction. In order to obtain a driver's license at sixteen years of age, a student must complete this course.

Fee: There is a $50.00 fee payable to Mt. Vernon Township High School. There is a $20.00 fee payable to the Secretary of State.

Unified Physical Education PH210

Credit: 0.5 **Grade: 09,10,11,12**

Prerequisite: *Application Required*

Unified Physical Education provides a unique opportunity for students with and without disabilities to work together through ongoing education to increase competence and confidence in a variety of lifetime activities, physical fitness, and sports. It is structured around the national physical education standards and grade-level outcomes. Additionally, the class supports the development of leadership skills for all students as well as the empowerment of ALL students to foster an inclusive class and school-wide environment. Students in Unified Physical Education may have the opportunity to participate in competitions with other schools and attend Special Olympics Unified Sports events.

Yoga and Fitness PH250

Credit: 0.5 **Grade: 09,10,11,12**

Yoga and Fitness will introduce students to various beginning Yoga and Pilates poses such as mountain, downward dog, camel, and warrior poses. This class will focus on increasing student's flexibility, strength, and balance while also promoting relaxation. Students will also learn basic anatomy of muscles and bones used during the poses. Walking will also be an integral part of this class to help improve the cardiovascular fitness of students.

Strength and Conditioning PH300

Credit: 0.5 **Grade: 09,10,11,12**

This section is a specialized course for, but not limited to, the high school athlete. The students will develop and implement an individualized weight-training program. This class emphasizes physical development and improvement through weight training, aerobic exercise, plyometric exercise, and a wide variety of sport-specific training techniques. Classes will concentrate on fitness concepts and developing personal fitness goals addressing the health-related fitness components of flexibility, muscular strength, muscular endurance, cardiovascular endurance, and body composition. In addition to the physical training aspect students will learn team-building skills, basic nutrition, anatomy, and physiology of exercise.

Exploratory Art Methods AR100

Credit: 1 **Grade: 09,10,11,12**

This course is designed for students who desire a year long art course that explores a variety of mediums, processes, techniques, and artistic experiences. It is a class for students that may not be ready nor interested in committing to a specific studio course but are looking to be creative and learn a variety of artistic methods.. It is not designed to be a prerequisite for any studio course and the course does not require a prerequisite.

Introduction to Ceramics

Credit: 0.5 **Grade: 09,10,11,12**

A semester course in which students are introduced to the functions of a ceramics studio, all six hand-building techniques, introduction to wheel throwing, and multiple finishing techniques such as underglazes and glazes. Students will learn and perform studio safety techniques and daily studio care & maintenance. Students will keep portfolios to record their artistic investigations and final artwork pieces. There is a $25 fee for required materials.

Intermediate Ceramics AR211

Credit: 0.5 **Grade: 09,10,11,12**

Prerequisite: *Introduction to Ceramics*

A semester course that continues the applications taught in Introduction to Ceramics by utilizing all the building methods learned to plan for and execute ceramics artwork. Utilizing the wheel and working with thrown objects is the majority focus at the Intermediate level as well as more refined hand building projects. Students will continue to keep and add to their portfolios to record their artistic investigations and final artwork pieces.

Advanced Ceramics AR212

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Intermediate Ceramics*

This advanced ceramics course is designed for serious art, specifically ceramic art students. Students will expand upon their knowledge from both Introduction to Ceramics and Intermediate Ceramics by choosing the building method in order to fulfill thematic assignments. Assignments are Problem Based and open to interpretation... Students will also have heightened expectations of studio maintenance by mixing clay, unloading kilns, and helping to mix glazes. Students will continue to keep and add to their portfolios to record their artistic investigations and final artwork pieces.

Sculpture AR220

Credit: 0.5 **Grade: 09,10,11,12**

A semester course that utilizes the elements and principles to build three dimensional, sculptural objects with a variety of materials. Students will learn an assortment of techniques with multiple mediums and explore the creation of artwork in space. Students will keep portfolios to record their artistic investigations and final artwork pieces.

Introduction to Drawing AR230

Credit: 0.5 **Grade: 09,10,11,12**

A semester course in which students are introduced to the fundamentals of drawing. Students will focus on building accuracy through observation as they progress through a variety of exercises and projects. Students will explore how line, value, shape, and texture are used to create visually interesting drawings with the use of a variety of drawing media.

Intermediate Drawing AR231

Credit: 0.5 **Grade: 09,10,11,12**

Prerequisite: *Introduction to Drawing*

A semester course in which students continue to explore a variety of drawing media. Student learning will focus on ways to utilize mixed drawing media and how to apply it to form dynamic compositions. Students will be expected to develop problem solving skills through exploration and investigation through research of artists and artwork.

Advanced Drawing AR232

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Intermediate Drawing*

A semester course designed for students who are serious about furthering their drawing skills. Students will expand upon knowledge from both Introduction to Drawing and Intermediate Drawing by fulfilling thematic based projects. Projects will require individualized research and exploration of knowledge, content, and media choices. Students will have heightened expectations of independent work ethic and expression.

Digital Photography & Video Production — AR240

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

A year long course in which students will be introduced to the fundamentals of digital photography and video production. Students will learn the process of digital photography from camera operation to editing work in Adobe Photoshop. Students will be exposed to the history of photography and its various genres from commercial to fine art. Students will gain an understanding of the process of audio/video production from basic camera operation, field work, video editing with Adobe Premier and studio production. Classwork will consist of tutorials and both solo and group projects.

Introduction to Painting — AR300

Credit: 0.5 **Grade: 09,10,11,12**

A semester course in which students explore color theory using a variety of painting media as well as technique and application. Students will use art terms and vocabulary to write critical evaluations of their own work.

Intermediate Painting — AR301

Credit: 0.5 **Grade: 09,10,11,12**

Prerequisite: *Introduction to Painting*

A continuation of application and mediums in Introduction to Painting but working with thematic assignments that begin to explore self-expressive endeavors. Students will build upon their knowledge and have opportunities to choose mediums to help create their desired effect and end result of an idea.

3D Modeling & Animation — AR375

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

This course teaches the skills necessary to create digital 3D art that incorporates animation. Students will learn the software for such practices. Students will be creating single images, gaming assets and video production.

Drama I A — AR360A

Credit: 0.5 **Grade: 11,12**

This course is a comprehensive theater class. The purpose of the curriculum is to give students an overview of theater in general. The super objective of this course is to have students “bring it all together” at the end in a culminating project. Students will perform in this class and be expected to demonstrate understanding and skills for audiences.

The essential questions for the semester:

- What are the most important tools for the actor?
- Who’s who in the theater?

The answer to the first question is mind, body, and voice. Each unit reflects one of those tools: pantomime - body improvisation - mind, etc. The answer to the second is explored throughout the curriculum. Every unit has padding to allow for games, warm-ups, cool downs, etc. Units include: Stage Movement, Pantomime, Ancient Greek Theatre, Improvisation, Commedia Dell’Arte, Elizabethan Theatre, Japanese Theatre, Front of House, and a Final Project.

Drama I B — AR360B

Credit: 0.5 **Grade: 11,12**

This course is a comprehensive theatre class. The purpose of the curriculum is to give students an overview of theatre in general. The super objective of this course is to have students “bring it all together” at the end in a culminating project. Students will perform in this class and be expected to demonstrate understanding and skills for audiences.

The essential questions for the semester:

- What are the most important tools for the actor?
- Who’s who in the theatre?

The answer to the first question is mind, body, and voice. Each unit reflects one of those tools: pantomime - body improvisation - mind, etc. The answer to the second is explored throughout the curriculum. Every unit has padding to allow for games, warm-ups, cool downs, etc. Units include: Stage Movement, Pantomime, Ancient Greek Theatre, Improvisation, Commedia Dell’Arte, Elizabethan Theatre, Japanese Theatre, Front of House, and a Final Project.

AP Art and Design AR400

Credit: 1 **Grade: 11,12**
Advanced Placement
Prerequisite: *A student must have completed 4 semesters of art with a grade of C or better*
AP Art and Design is an advanced studio class for junior and senior art students and meets standards for Advanced Placement, College Level Art. This class prepares serious art students for the assembly of a focused portfolio that is submitted to the National College Board for assessment and scoring. The finalized score can grant students college credit opportunities. A portfolio can be in the direction of Drawing, 2-D Design, or 3-D Design. Students will work closely with the instructor to prepare the necessary bodies of work for the concentration portion of the portfolio as well as the other sections of the portfolio for the submission to College Board. Weighted grade upon submittal of portfolio.

AP Art History AR410

Credit: 1 **Grade: 10,11,12**
Advanced Placement
Prerequisite: *Sophomores must have 3.5 GPA or higher*
AP Art History is a course designed for any college bound student wanting an opportunity to acquire a humanities credit from a college or university. Students who have been successful in humanities courses such as history and literature or studio art classes are especially encouraged to enroll. This AP course explores topics about art, its uses, its meanings, art making processes, and responses to art throughout history and cultures. Expect to write, compare, analyze, discuss, read, and engage in the viewing and responding of global art and architecture.

AP African American Studies AR415

Credit: 1 **Grade: 10,11,12**
Prerequisite: *Sophomores must have 3.5 GPA or higher*
This is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with authentic and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American studies, students in the course will develop skills across multiple fields, with an emphasis on developing visual, literary, historical, and data analysis skills. This course foregrounds a study of the diversity of Black communities in the US within the broader context of Africa and the African diaspora.

Spanish I FL110

Credit: 1 **Grade: 09,10,11,12**

Prerequisite: *Students must pass the first semester to take the second semester.*

Spanish I is a two-semester course that offers a rigorous study of basic, everyday Spanish. Emphasis will be placed on acquiring practical vocabulary, grammar, and conversational skills, and achieving a basic understanding of Hispanic culture and geography. Students will engage in basic writing, reading, listening, and speaking activities.

Spanish II FL210

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

Prerequisite: *FL110 - Spanish I with a passing grade, and students must pass the first semester to take the second semester.*

Spanish II is a two-semester course that offers a review of the essentials of the first year plus continued study of more advanced vocabulary, grammar, and conversational skills, as well as some Spanish history and geography. Students will engage in more advanced reading, writing, listening, and speaking activities. Students planning to further their education, increase their job options, or travel would benefit from this course.

Spanish III FL310

Credit: 1 **Grade: 11,12**

Prerequisite: *FL210 - Spanish II, Students must pass the first semester to take the second semester.*

Spanish III is a two-semester course that offers an accelerated review of basic grammar and vocabulary from the first two years plus a more intensive study of advanced vocabulary, grammar, and conversational skills. Students will engage in more complex reading, writing, listening, and speaking activities, including hear and speaking primarily Spanish during class time. Students planning to further their education, increase their job options, or travel would benefit from this course.

Spanish IV FL410

Credit: 1 **Grade: 12**

Prerequisite: FL310 - *Spanish III with a passing grade, and students must pass the first semester to take the second semester.*

Spanish IV is a two-semester course that reinforces the basics of the other three years plus offers an intensive study of advanced vocabulary, grammar, and conversational skills. Students will engage in complex reading, writing, listening, and speaking activities, including constant use of Spanish in class and exposure to Hispanic art and literature. Students planning to further their education, increase their job options, or travel would benefit from this course.

Russian I FL500

Credit: 1 **Grade: 09,10,11,12**

Prerequisite: *Students must pass the first semester to take the second semester.*

Russian I is a two-semester course that offers an introduction to modern standard Russian for students without previous experience in Russian. Students will learn the cyrillic alphabet, fundamentals of grammar and syntax, vocabulary, how to read and write in Russian, and to have and understand spoken conversations. Topics will include those which would enable students to function in Russian in everyday situations, such as leisure activities, transportation, music, sports, school, eating, holidays, and daily life. The course will include cultural components of Russian geography and culture. The textbook will be supplemented with the wealth of Russian-language content available on the web, as well as contemporary Russian media including music, video, and written word.

Russian II FL510

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

Prerequisite: *FL500 - Russian I with a passing grade, and students must pass the first semester to take the second semester.*

Russian II is a two-semester course that is a continuation in modern standard Russian. Students will learn grammar, syntax, vocabulary, how to read and write in Russian, and to have and understand spoken conversations. Topics will include those which would enable studies to function in Russian in everyday situations: leisure activities, transportation, music, sports, school, eating, holidays, and daily life. The course will include a cultural component, including Russian geography and culture. The textbook will be supplemented with the wealth of Russian-language content available on the web, as well as contemporary Russian media including music, video and written word.

Russian III FL520

Credit: 1 **Grade: 11,12**

Prerequisite: *FL510 - Russian II with a passing grade, and students must pass the first semester to take the second semester***.**

Russian III is a two-semester course that is a deeper exposure to modern standard Russian. Students will enhance their reading, writing, speaking and listening skills to achieve a higher level of proficiency. They will expand their vocabularies, learn advanced grammatical structures, and improve their pronunciation and intonation. By the end of Russian III, students will be able to engage in detailed conversation, comprehend authentic Russian texts, and create original written compositions The course will include components in Russian culture, history and current events. The textbook will be supplemented with internet-based resources including the wealth of Russian-language content available on the web, as well as contemporary Russian media including music, video and written word.

Cadet Band MU100

Credit: 1 **Grade: 09,10,11,12**

Prerequisite: *At least one year of prior experience on a band instrument*

Cadet Band, intended to pick up where 8th grade left off, serves students with prior experience on a woodwind or brass instrument. Students will learn the necessary skills to perform high quality music and will also perform alongside the symphonic band and learn from top MVTHS musicians in a variety of settings.

Beginning Band MU105

Credit: 1 **Grade: 09,10,11,12**

Students who have not had the opportunity to study woodwinds, brass, or classical percussion can join a beginning band to get started. Over the year, participants will learn the hard, yet rewarding, work in playing a musical instrument. The students and instructor will select an appropriate instrument from the following: flute, clarinet, saxophone, trumpet, trombone, euphonium, or classical percussion. Over the year, students will learn musicianship and performance in the context of their own instrument.

Varsity Orchestra MU120

Credit: 1 **Grade: 09,10,11,12**

Prerequisite: *One year prior of instrument lessons and performance*

Varsity Orchestra is composed of first year students. Emphasis is placed on the fundamentals of music and string playing. Students will participate in a variety of concerts, for example, the Fall Concert, the Christmas Musicale, the Music in Our Schools Concert, D201 Concert, as well as a solo-ensemble contest.

Symphonic Band MU130

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

Prerequisite: *Audition*

The premier wind ensemble; All students in Symphonic Band must audition to be part of this ensemble. Students will study a major woodwind or brass instrument throughout the year through performance of a variety of advanced music literature. Additionally, students will gain mastery of technical skills on their instrument in preparation for college level music ensembles. Additional requirements for Symphonic Band include Summer Marching Band Camp, Marching Rams, and a variety of concerts and performances throughout the school year.

Symphonic Orchestra MU140

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

Prerequisite: *Audition*

Symphonic Orchestra members are those strings which have completed the curricular requirements of the Varsity group. Members are usually sophomores, juniors, and seniors (and wind and percussion players are select members of the top chairs of the Symphonic Band). The operetta, Christmas program concerts, tours, solos and ensembles, all state activities, the honors program, and other activities constitute the opportunities for performance of this group. This group meets daily for one unit of credit for strings and service points for wind-percussion players.

Introduction to Piano MU160

Credit: 0.5 **Grade: 09,10,11,12**

This course is designed for students who wish to develop basic piano playing skills and composition skills, or expand on their existing skills. Students will learn the principles of piano playing, beginning with score reading and basic music theory. It progresses next to composing melodies and accompaniment and then to harmonization and improvisation. Students may also learn about sight reading, technical exercise to aid in the development of skills used in the playing of the instrument, and ultimately, the addition of beginning piano repertoire, depending on individual advancement. Time in class will be spent both on and off the keyboards. While playing, students will be working individually and in small groups to master the techniques of playing and to learn pieces. There will also be time spent in group instruction on musical notation for composition. Participation in this course will also allow students to explore career options in the music field, use creating and critical thinking skills, and develop leadership skills.

Intermediate Piano MU165

Credit: 0.5 **Grade: 09,10,11,12**

Prerequisite: *Intro to Piano & Composition, or Written and Playing Audition*

This course is designed for students who wish to expand on their piano playing skills and composition skills. Students will reinforce and advance the principles of piano playing, beginning with score reading and intermediate music theory, then progress with harmonic composition and full accompaniments. Students will also develop their sight reading, and technical abilities to aid in the development of skills used in the playing of the instrument. Depending on the level of each player, students may also be asked to accompany other instruments, such as band or chorus members during class time. Like the Introduction course, time in class will be spent both on and off the keyboards. While playing, students will be working individually and in small groups to master the techniques of playing and to learn repertoire. There will also be time spent in group instruction on musical notation for composition. Participation in this course will also allow students to explore career options in the music field, use creating and critical thinking skills, and develop leadership skills.

Advanced Piano MU175

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Intro to Piano & Composition, Intermediate Piano & Composition, or Written and Playing Audition*

This course is designed for students who wish to expand on their intermediate piano playing skills and composition skills with a focus on performance. Students will advance the principles of piano playing and music theory with a summative goal of a piano performance recital AND accompanying another performer. Students will also advance their sight reading, and technical abilities to aid in the development of skills used in the playing of the instrument. Like the Intermediate course, time in class will be spent both on and off the keyboards. While playing, students will be working individually and in small groups to master the techniques of playing and to learn repertoire. There will also be time spent in group instruction on musical notation for composition. Participation in this course will also allow students to explore career options in the music field, use creating and critical thinking skills, and develop leadership skills.

Beginning Choir MU180

Credit: 1 **Grade: 09,10,11,12**

A non-auditioned mixed ensemble, open to students in grade 9-12. All incoming freshmen sing in this choir. This course emphasizes fundamentals of vocal technique, music reading, music theory, and the basic elements of performing choral music. This mixed SATB choir is designed for all students to like to sing and want to improve their voices and musical skills. This choir participates in public performances, and is a prerequisite to Treble Choir and Chamber Choir. Rehearsals are almost all during the school day.

Beginning Guitar MU190

Credit: 0.5 **Grade: 09,10,11,12**

Beginning Guitar is designed for students who wish to learn to play the guitar, or for students who already play but want to learn the fundamentals of music notation and tablature. The course will cover basic chord shapes, reading first position notes, and the fundamentals of tablature. Students will also learn the basics of playing in a group with other musicians.

Intermediate Guitar MU195

Credit: 0.5 **Grade: 09,10,11,12**

Prerequisite: *Beginning Guitar, or Written and Playing Audition*

Students will continue to learn intermediate to advanced techniques on the guitar. This course picks up where Beginning Guitar left off. Students will learn how to read melodies written in standard notation on the guitar. They will also learn the tablature style of music notation. Additionally, they will learn how to transpose the chords they learned in Beginning Guitar using Barre chords. Student assessments will be through proficiency exams and in class recitals. Students will also participate in a performance project tailored to their future goals on guitar. All styles are welcome, blues, jazz, classical, rock, country…etc.

Advanced Guitar MU200

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Intermediate Guitar OR demonstration of prior knowledge of music through entrance exam*

Ready to take your guitar skills to the next level? Feeling comfortable with your playing and want to get into the side of guitar that all the greatest performers know about? Advanced guitar is intended to take the knowledge and skills learned from Beginning and Intermediate guitar and expand upon it in a much more practical application. Where the Beginning and Intermediate Guitar classes lay the foundation for great guitar playing, Advanced Guitar will go a step further into the mind of a gigging musician. In addition, this class will explore electric guitar playing and how various amplifiers work and how different settings can affect your sound.

Treble Choir MU250

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

Prerequisite: *Vocal and Theory Audition*

The Treble Choir is an auditioned ensemble, and the second step in the vocal music sequence for Sopranos and Altos, grade 10-12. Continuation of the work started in the Beginning Choir is furthered to explore the intermediate and advanced level of SSAA literature. A greater emphasis on music theory, solo performance, and public group performance.

Chamber Choir MU260

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

Prerequisite: *Vocal and Theory Audition*

Chamber Choir is the highest-level choir auditioned ensemble for advanced students 11-12, with exception to few auditioned Tenor and Bass Sophomores. The choir uses SATB voices to perform advanced literature and therefore must demonstrate proficiency in vocal technique and music reading skills during their auditions. The Chamber Choir will continue to develop advanced vocal technique and music reading skills, music theory, with an emphasis on solo and public performance.

Music Recording & Production MU300

Credit: 0.5 **Grade: 10,11,12**

This course is designed for students who wish to be introduced to the many different careers that stem from the Music Industry, along with recording and producing music of their own. Students will learn the history of sound technology, how to record and manipulate sound to create medley mixes, and explore the digital world of music. MRP students will learn studio etiquette, as well as the basics of making beats and music patterns that are commonly used in music production. Keyboard skills are helpful but not necessary. Copyright law is also taught so students can publish their music safely. The Recording aspect exposes a full spectrum of audio: The current and future landscape of the music industry, general concepts of sound, microphones and placement, recording and mixing techniques, digital audio interfaces, MIDI production, live sound, studio maintenance, and mastering. The recording studio and midi lab will be utilized to give students hands-on recording experience in live time. This course is an introduction to the previously mentioned areas.

Songwriting 101 MU305

Credit: 0.5 **Grade: 10,11,12**

Unleash your musical creativity! Tired of playing songs by other people? Want to make your own summer hit? Itching to write down that tune that's been stuck in your head all week? Songwriting 101 is your introduction to the world of songwriting in the modern context. Learn the ins and outs of musical forms, basic music theory, melody writing, lyric writing, and much more. Students will engage with the music around them, their own musical talents and ideas, and other students, as they work to create their very own musical "masterpiece" in a final class project.

AP Music Theory MU470

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

Advanced Placement

Prerequisite: *Sophomore GPA 3.5 or higher*

AP Music Theory is designed for students interested in understanding the processes and concepts behind composing and writing music. Students will learn the basics of music notation, composing melodies, chord construction, and harmony. Students will have the opportunity to compose and arrange their own music. No previous music experience is required. This course is highly recommended for students considering a career in music or who may study music at the college level.

Introduction to Agriculture Industry A AG100A

Credit: 0.5 **Grade: 09,10**

This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in plant science, agribusiness management, natural resources, food science, food science technology, environmental science and parliamentary procedures will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Introduction to Agriculture Industry B AG100B

Credit: 0.5 **Grade: 09,10**

This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science including small and large animal production, and animal wellness and management will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Horticultural Science A AG110A

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

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. *(Satisfies MVTHS Science Credit Requirement)*

Horticultural Science B AG110B

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

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include, horticultural research, seed germination, plant propagation, landscape design, growing media, pest management, identifying horticultural plants, growing greenhouse crops, and floral design. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. The first semester of Basic Horticulture Science A is recommended before entering this course unless an agreement is made by the Agriculture Instructor. *(Satisfies MVTHS Science Credit Requirement)*

Plant and Soil Science AG200A

Credit: 0.5 **Grade: 10,11**

This orientation course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, plant science on many plant characteristics, health care and fertilizers to help plants in the fields and gardens also, biotechnology, advanced animal science. Many applied science and math skills and concepts will be stressed throughout the course as they relate to each area of soil and plants. Improving computer and workplace skills will be a focus in this course for many of the 300 agriculture careers. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts to teach careers and pay for college. *(Satisfies MVTHS Science Credit Requirement)*

Animal Science AG200B

Credit: 0.5 **Grade: 10,11**

This orientation course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include animal sciences in cattle, swine, sheep, horses, meat science, advanced plant science, biotechnology, advanced animal science. Many applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus in this course. Your participation in the FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts to prepare you for over 300 agriculture careers. (*Satisfies MVTHS Science Credit Requirement)*

Agricultural Mechanics and Technology AG300

Credit: 1 **Grade: 11,12**

Prerequisite: *Industry Basics Auto/Welding*

This course will concentrate on expanding students' knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics, and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Agricultural Business and Management AG310

Credit: 1 **Grade: 11,12**

Dual Credit: *RLC, AGRI –1141 Agricultural Economics (3 credit hour)*

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, sales and marketing, economic principles, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. (Satisfies Consumer Education Requirement)

Agriculture Leadership & Communication AG310

Credit: 1 **Grade: 11,12**

Dual Credit: *RLC, AGRI 1221 - Intro To Ag. Occupations (1 credit hour)*

This course is designed to provide students with communication and leadership skills that will help them to work with others, make career advancements, and prepare for success in local, state, national, and international agriculture. Students will analyze current agricultural issues and determine how they affect people on all sides of the issue. The students then learn and enhance their written and oral communication skills by presenting their views and opinions to the class. Students learn how to arrange and present debates, speeches, and interviews to be effective leaders in today's society. Students will further enhance their potential for leadership development, personal growth, and career success through leadership development and experiences. Participation in FFA student organization activities and Supervised Agricultural Experiences (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. Odd School Years only.

Wildlife Management AG905

Credit: 1 **Grade: 11,12**
Prerequisite: *Animal Science*
Often with an emphasis on the conservation of natural resources and frequently including outdoor recreation topics. Wildlife Management courses provide students with the opportunity to understand and appreciate the importance of maintaining the land and ecological systems that enable non-domesticated animals to thrive. Wildlife Management courses emphasize how humans and animals may both take advantage of the same land or how to gain economic benefits from the land while not degrading its natural resources or depleting plant or animal populations. Participation in FFA student organizations activities and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration, and reinforcement of academic concepts. Even school years only.

Horticultural Production & Management AG340

Credit: 0.5 **Grade: 11,12**
Dual Credit: *RLC, HORT 1201 - Intro to Horticulture (3 credit hours)*
Prerequisite: *Horticulture Science*
This advanced course offers instruction in both the greenhouse production and landscape areas of horticulture. Units of study include plant identification, greenhouse management, growing greenhouse crops, landscape design, installation, and maintenance, horticulture mechanics, nursery management, and turf production. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Floral Design & Marketing AG335

Credit: 0.5 **Grade: 11,12**
Prerequisite: *Horticulture*
Floral Design and Marketing covers principles of floral art with an emphasis on commercial design. Topics include basic design styles and color harmonies; identification, use, and care of processing of cut flowers and foliage; mechanical aids and containers; personal flowers; holiday designs; and plant identification and care. The student will demonstrate the ability to identify floral design styles and color harmonies; identify cut flowers and foliage and the care and processing methods for extended vase life; select containers and mechanical aids; and create basic floral arrangements. The study of the general principles of plants, and their life processes and morphology, with emphasis on major floral crops are also covered. Students will also learn about marketing strategies and floral shop setup. Students will develop a bill of materials and look at other key factors in running a floral shop like overhead cost. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Veterinary Technology AG350

Credit: 1 **Grade: 11,12**
Prerequisite: *Intro to Ag B or Animal Science*
This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Supervised Ag Education (SAE) AGSAE

Credit: 0.25 **Grade: 11,12**

This course is designed to establish knowledge and skills in various agricultural careers. Students will gain credit by establishing a project at their home, at a local business, or at their school usually after normal school hours. Example projects may include, but are not limited to: salesmanship, turf grass management, recycling and environmental management, landscaping, outdoor recreation, working at a garden center, raising vegetables/grain/livestock, conducting agriscience experiments in a greenhouse, and training horses at a stable. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation, and net worth. Instructor supervision will be conducted to the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated in each agricultural course. SAE participation can lead to full time employment, scholarships, and awards through the FFA. Offered to students who have Ag Departmental approval. 1/4 credit each year. (1.0 credit maximum)

Business and Technology Concepts A — BU100A

Credit: 0.5 **Grade: 09,10,11,12**

In this first semester course, students will be provided with an overview of all aspects of business, marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration and production). *(Satisfies Consumer Education Requirement after completion of BU100A and BU100B.)*

Business and Technology Concepts B — BU100B

Credit: 0.5 **Grade: 09,10,11,12**

In this second semester course, students will be introduced to a wide range of careers in fields such as accounting, financial services, information technology, marketing, and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics, as well as other workplace skills, will be taught and integrated within this course. *(Satisfies Consumer Education Requirement after completion of BU100A and BU100B.)*

Accounting I — BU200

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

Accounting I is a course that is of value to all students pursuing a strong background in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Accounting computer applications should be integrated throughout the course where applicable. In addition to stressing basic fundamentals and terminology of accounting, instruction should provide initial understanding of the preparation of budgets and financial reports, operation of related business machines and equipment, and career opportunities in the accounting field. Processing employee benefits may also be included. Practice sets with business papers will be used to emphasize actual business records management.

Mathematics Credit: If the third year Math class was failed, the third year Math requirement for graduation may be fulfilled by completing this course.

Business Law — BU206

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

This course is designed to acquaint students with the basic legal principles common to all aspects of business and personal law. Business topics include contract law, business ownership including intellectual property, financial law, and national and international laws. Personal topics include marriage and divorce law, purchasing appropriate insurance, renting and owning real estate, employment law, and consumer protection laws.

Investing 101 — BU206

Credit: 0.5 **Grade: 10,11,12**

This course provides an overview of personal investing. Students will learn how to make informed decisions about investing in common stock, fixed-income securities (bonds), mutual funds, exchange-traded funds (ETFs), and retirement plans. Other topics include measuring risk & return, modern portfolio concepts, market efficiency, behavioral finance, and managing a portfolio.

Accounting II BU300

Credit: 1 **Grade: 11,12**

Prerequisite: *Accounting I*

Accounting II is a skill-level course that builds upon the foundation established in Accounting I. This course is planned to help students develop a deeper knowledge of the principles of accounting. More emphasis will be placed on cost accounting, tax accounting, accounting for corporations, and computer automated accounting. The student gains practical knowledge of accounting through the use of computerized practice sets. This course will provide additional background for the college bound business student as well as the student who desires to go directly into the business world.

Personal Finance BU305

Credit: 0.5 **Grade: 11,12**

This course is designed to provide students with an understanding of the concepts and principles involved in managing one's personal finances. Topics will include savings, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. *(Satisfies Consumer Education Requirement)*

Marketing & Advertising BU310

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

Principles of Marketing courses offer students insight into the processes affecting the flow of goods and services from the producer to the consumer. Course content ranges considerably as general marketing principles such as purchasing, distribution, and sales are covered; however, a major emphasis is often placed on kinds of markets; market identification; product planning, packaging, and pricing; and business management.

Business Management BU335

Credit: 0.5 **Grade: 10,11,12**

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

Interrelated Cooperative Education (Work Co-op) BU500

Credit: 3 **Grade: 12**

Dual Credit: *RLC, BUSI 1202 - Work Ethics (1 hour each)*

Prerequisite: *Application required*

This course is designed for senior students interested in pursuing careers in CTE occupations. Students are released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills, career exploration skills related to the job, as well as improving students' abilities to interact positively with others.

The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. Worksite instruction is based on the tasks in an occupation. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator. The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. Worksite instruction is based on the tasks in an occupation. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator.

Creating Entrepreneurial Opportunities (CEO) * BU600

Credit: 2 **Grade: 12**

Dual Credit: *RLC, BUSI 1202 - Work Ethics (1 credit hour), BUSI 1203 - Entrepreneurial Skills (4 credit hours), BUSI 1204 - Business Functions (5 credit hours), MGMT 2201 - Principles of Management (3 credit hours)*

Prerequisite: *Application required*

This entrepreneurship course seeks to prepare students to be responsible, enterprising individuals who become entrepreneurs or entrepreneurial thinkers and contribute to economic development and sustainable communities. The CEO program is much more than a textbook course. Rather, students are immersed in real life learning experiences with the opportunity to take risks, manage the results, and learn from the outcomes.

Intro to Family and Consumer Science — FA103

Credit: 0.5 **Grade: 09,10**

This course introduces students to the field of family and consumer sciences and the many career opportunities available in this broad field. The course includes theory and laboratory experiences in the following content areas: Nutrition and culinary arts; textiles and design; family, career, and community leadership development; resource management; human development and lifelong learning; facility design, care, and management; and interpersonal relationships and life management skills.

Food & Nutrition I — FA100A

Credit: 0.5 **Grade: 10,11**

This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompass': food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning/preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

Food & Nutrition II — FA102B

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Food and Nutrition I with C or better*

Provides principles of application into the hospitality industry, including nutrition, culinary, and entrepreneurial opportunities. Course content includes the following: selection, purchase, preparation, and conservation of food, dietary needs and trends, regional & international cuisine, safety and sanitation, and careers in food service industries. All of these concepts can be interpreted through laboratory experiences.

Child Development — FA110

Credit: 0.5 **Grade: 10,11,12**

Child Development addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. The focus is on research–based nurturing and parenting practices and skills, including brain development research, that support positive development of children. Students will explore opportunities in human services and education-related careers and develop a career portfolio.

Child Care I — FA200

Credit: 1 **Grade: 11,12**

Dual Credit: *RLC, ECE 1202 – Introduction to Early Childhood Education (3 credit hours)*

Prerequisite: *Application required*

This course provides students with information and practical experiences needed for the development of competencies related to child care, day care, and other education services occupations. Laboratory experiences, either in a school-based or worksite learning facility, are included throughout the class. Students meet standards in developing programs and assisting with children's activities. Classroom study includes the philosophy and management of care centers and the state and local regulations governing care-giving operations. The learning experiences will involve working with children simulating those found in business and industry, as well as preparation for developing and facilitating these activities.

Culinary Arts I — FA300

Credit: 2 **Grade: 11,12**

Prerequisite: *Application Required, and completion of Food and Nutrition I and Food and Nutrition II with a B or better.*

This course provides terminology, culinary math, and practical experiences needed for the development of culinary competencies and workplace skills. Safety and sanitation instruction and classroom application will prepare students for an industry recognized sanitation exam. Classroom experiences will develop skills to work in the front of the house, back of the house, and workstations. Additional content may include: event planning, customer service and relations, food service styles, baking and pastry arts, hors d'oeuvres, and breakfast cookery. Students will be provided opportunity training experiences on commercial equipment. The course provides students with the necessary information and experience to prepare them for the Department of Public Health sanitation examination. The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. Worksite instruction is based on the tasks in an occupation. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator. The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. Worksite instruction is based on the tasks in an occupation. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator.

Culinary Arts II FA310

Credit: 2 **Grade: 12**

Prerequisite: *Culinary Arts I with B or better*

Culinary Arts II places special emphasis for students to develop operational management skills -including design and organization of food service systems in a variety of settings, human relations, and personnel training and supervision. Additional topics include: food cost accounting; taking inventory; advertising; monitoring consumer and industry trends; and individualized mastery of culinary techniques. Training experiences involve equipment and facilities simulating those found in business and industry.

Resource Management FA320

Credit: 0.5 **Grade: 11,12**

This course focuses on the identification and management of personal and family resources to meet the needs, values, and wants of individuals and families throughout the life cycle. The course utilizes a variety of project -based experiences and service learning opportunities to gain knowledge and expertise in understanding and applying management skills, with consideration to diverse social, economic, technological, environmental, and cultural characteristics of individuals and families. Topics include: consumer rights and responsibilities in the marketplace; financial responsibility and decision making; planning and money management; credit and debt; risk management and insurance; saving and investment; homeownership; state and federal taxes; electronic banking; and current issues in the economy. (*Satisfies consumer education requirement)*

Parenting FA330

Credit: 0.5 **Grade: 11,12**

This course helps students understand the responsibilities, satisfactions and stresses of parenthood. Course content includes the following: managing and organizing parenting by applying decision -making and goal-setting skills; applying the basic principles of the parenting process; practicing health and safety standards as related to parenting; providing experiences which encourage parents and children to maximize resources; encouraging human relations skills in children /adolescents; community resource agencies and services; and evaluating impact on parenting of family and career changes.

Adult Living FA340

Credit: 0.5 **Grade: 11,12**

This course is designed to focus on the knowledge, attitudes, and behaviors needed to participate in positive, caring, and respectful relationships in the family, community, and workplace. This project -based course uses communication, leadership and management methods to develop knowledge and behaviors necessary for individuals to become independent, contributing, and responsible participants in family, community, and career settings. Emphasis is placed on the development of techniques and strategies to assist individuals in responding to situations presented in family relationships and the workplace. The course content includes: managing responsibilities, satisfactions and stresses of work and family life; analyzing personal standards, needs, aptitudes and goals; roles and responsibilities of living independently and as a family member; demonstrating goal-setting and decision-making skills; identifying and utilizing community resources; and developing effective relationships to promote communication with others. The course provides students content to identify resources that will assist them in managing life situations.

Child Care II FA350

Credit: 2 **Grade: 12**

Dual Credit: *RLC, ECE 1208 – Family/Community/Staff Relations (3 credit hours)*

Prerequisite: *Childcare I with a B or better*

This course emphasizes the skills associated with the administration of the infant, child and adult care facilities and education centers. Skills, strategies and issues related to caring for infants and special needs children and adults, where applicable, are included. Emphasis is placed on career opportunities, communication skills, human relations and the service needs of clients in the occupational area. The major learning experiences will involve actual work with children and /or adults in facilities simulating those found in the workplace/industry, and discussion of the situations and problems that arise during the learning experiences. State licensing and certification requirements and regulations related to all-aspects of care and education are stressed throughout the course. Careers in the occupational area will be investigated, including entrepreneurship. The major learning experiences will consist of practicum in the on-site preschool at Mt. Vernon Township High School. State licensing regulations related to all aspects of caregiving are stressed throughout the course.

Orientation to Health Occupations HE100

Credit: 0.5 **Grade: 09,10,11,12**

The course will expose students to the variety of opportunities available within the healthcare industry (e.g., such as nursing, therapy, vision and dental care, administrative services, and lab technology) which include classroom and community-based activities. The main purpose of this course is to assist students in further development of their self-concept and in matching personal abilities and interest to a tentative career choice. Course content will provide in-depth information into health occupations careers and trends, the occupational and educational opportunities and the educational, physical, emotional and attitudinal requirements. Basic first aid and CPR are also taught.

Principles of Biomedical Science (PBS) HE160

Credit: 1 **Grade: 09,10,11,12**

Students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. This course is designed to provide an overview of all the courses in the Biomedical Sciences Program and lay the scientific foundation for subsequent courses.

Students can earn College Credit through Missouri S&T with successful scores in 2 or more PLTW-Biomedical Science classes. Additional fees apply.

Project Lead the Way (PLTW) Foundation Course

Human Body System (HBS) HE260

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

Prerequisite: *Principles of Biomedical Science*

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Students can earn College Credit through Missouri S&T with successful scores in 2 or more PLTW-Biomedical Science classes. Additional fees apply.

Project Lead the Way (PLTW)Foundation Course

Medical Terminology HE300A

Credit: 0.5 **Grade: 11,12**

Dual Credit: *RLC, HECO 1202 – Health Care Terminology (3 credit hours)*

This course is open to junior and senior students who have an interest in the health field. The course includes affective, cognitive, and psychomotor skills which are common to most Health Occupations. Students spend time in the classroom learning basic medical terminology, body structure and function, and mastering tasks for various medical occupations. Second semester students will be certified in CPR/First Aid/AED.

Phelbotomy HE300B

Credit: 0.5 **Grade: 12**

Dual Credit: *RLC, waiting on course code for 26/27 school year*

The Phlebotomy program is designed to teach the knowledge in technical and procedural aspects of basic phlebotomy including: collection of blood specimens & venipuncture required to become a Phlebotomy Technician. The program includes theory & hands-on instruction and will teach students the concepts of introduction to phlebotomy & infection control, legal issues in healthcare, overview of the human body, blood collection procedures, equipment, and proper procedures and techniques for collecting venipuncture and capillary specimens based on the latest CLSI standards, as well as special blood and non-blood specimen collections and describes the latest in point-of-care instruments and testing. This program is designed for learner's who are interested in starting a career in the medical field to become a phlebotomy technician.

Medical Interventions (MI) HE360

Credit: 1 **Grade: 11,12**

Prerequisite: *Human Body Systems (HBS)*

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Students can earn College Credit through Missouri S&T with successful scores in 2 or more PLTW-Biomedical Science classes. Additional fees apply.

Project Lead the Way (PLTW)Foundation Course

Basic Nursing Assistant Training HE400

Credit: 2 **Grade: 11,12**

Dual Credit: *RLC, CNA 1201 – Certified Nurse Assistant (7 credit hours) Note -- ACCUPLACER Test requirement in Reading is required to earn dual credit from Rend Lake College.*

Prerequisite: *Application Required, Medical Terminology Recommended*

The course is composed of a combination of subject matter and experiences designed to perform tasks of individuals receiving nursing services. The student learns those competencies needed to perform as a nurse assistant under the direction of the registered nurse. The units of instruction should include the role of the nurse assistant while covering general health care topics; medical terminology; patients/clients and their environment; special feeding techniques; psychological support and, in long term and terminal illness, death and dying and all other basic nursing skills. Topics covered typically include normal growth and development; feeding, transporting patients, hygiene, and disease prevention; first aid and CPR; observing and reporting; care of equipment and supplies; doctor, nurse, and patient relationships and roles; procedure policies; medical and professional ethics; and care of various kinds of patients – including long-term care residents. Students will receive a certificate of completion in Basic Nurse Assistant Training upon successful completion of the course. Students may then apply to take the Nurse Assistant Training examination for certification. Passing this exam is necessary in order to be placed on the registry for the Illinois Department of Public Health as a Certified Nurse Assistant (C.N.A.). The cost of the C.N.A. examination is to be paid by the student. Supplies needed for this course are a watch with second hand, transfer belt, stethoscope, blood pressure cuff, uniform, and white shoes. Students are also required to submit to medical screening and criminal background checks.

A shop safety test must be passed prior to earning shop privileges in each industrial and agriculture course requiring shop work. Be advised that failure to pass the shop safety test, misconduct thereafter in the shop and/or repeated failure to have the required safety glasses, etc. will result in student removal from the course.

Industry Basics AW (Automotive / Welding) IN100

Credit: 0.5 **Grade: 09,10,11,12**

This course includes 2, 9-week segments, with the two courses being Automotive and Welding. (A shop safety test must be passed in order to earn shop privileges. Be advised: misconduct in the shop can result in removal from the course.) Successful completion of this two-segment course provides the orientation needed to enter into the Intro to Automotive and/or Orientation to Manufacturing courses.

Industry Basics CE (Construction / Electricity) IN101

Credit: 0.5 **Grade: 09,10,11,12**

This course includes 2, 9-week segments, with the two sections being Construction/Drafting & Electricity. Each segment will cover the resources, technical processes, industrial applications, technological impact and occupations encompassed by that system. (A shop safety test must be passed in order to earn shop privileges. Be advised: misconduct in the shop can result in removal from the course.) Successful completion of this two segment course provides the orientation needed to enter into the Intro to Construction, Intro to Drafting and/or Intro to Electricity courses.

Intro to Engineering Design (IED) IN150

Credit: 1 **Grade: 09,10,11,12**

This class is for anyone who wants to create. Designers, artists, fabricators, and engineers are all welcome. Students learn how to think like designers and engineers through the design process. They learn to communicate like designers and engineers through CAD and 3d Printing. Projects include 3-d printed phone stands and lamps.

Students can earn College Credit through Missouri S&T with successful scores in 2 or more PLTW-Engineering classes. Additional fees apply.

Project Lead the Way (PLTW) Foundation Course
Continental Tire (Industrial Maintenance and Mechanics Strand)

Principles of Engineering (POE) IN153

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

POE supercharges a student's ability to create anything they want by adding mechanical, electrical, structural, and programming knowledge to the design process. Students demonstrate their knowledge of simple machines by building Halloween props. They show their understanding of electricity by racing student-designed solar cars and they demonstrate their programming prowess by creating a mini-automated factory.

Students can earn College Credit through Missouri S&T with successful scores in 2 or more PLTW-Engineering classes. Additional fees apply.

Project Lead the Way (PLTW)Foundation Course. Continental Tire (Industrial Maintenance and Mechanics Strand)

Digital Electronics (DE) IN155

Credit: 1 **Grade: 11,12**

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

Project Lead the Way (PLTW) Specialization

Introduction to Computer Programming IN170

Credit: 0.5 **Grade: 09,10,11,12**

This course is an introduction to the principles and practices of computer science and programming, designed to give students a foundational understanding of how computers work, think, and solve problems. Through hands-on projects, engaging lessons, and real-world applications, students will explore the building blocks of computer science, including algorithms, data analysis, programming, and the ethical implications of technology.
Throughout the course, students will develop their skills in logical reasoning and creative problem-solving by learning to code in a high-level programming language. Starting with the basics of programming structure and syntax, students will progress to more complex projects, creating interactive applications, games, and animations.

Orientation to Manufacturing I IN200A

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Industry Basics AW with a C or better*

This introductory course is designed to allow students to develop knowledge of concepts in manufacturing in a global society and its impact on our lives and our environment. This course will emphasize the laboratory approach. Class activities will include demonstrations and applications of manufacturing systems, materials, tools, and machines. Students will apply mathematics and technical knowledge to problem solving.

Orientation to Manufacturing II IN200B

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Orientation to Manufacturing I*

This introductory course is designed to allow students to become aware of the role that welding and cutting of materials play in manufacturing technology. General knowledge and understanding will be developed in arc and wire feed welding, oxyacetylene welding and cutting, manual, semi-automatic, and plasma cutting. The laboratory approach will be emphasized. Students will apply mathematics and technical knowledge to problem solving.

Intro to Electricity IN220

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Industry Basics CE with C or better*

Areas of study will include electrical fundamentals; conservation of energy, residential application in receptacles, single pole 3-way/4-way light switches, 120 volt power distribution & breaker boxes. Students will use laboratory experiences to become familiar with current energy technologies. (A shop safety test must be passed in order to earn shop privileges. Be advised: misconduct in the shop can result in removal from the course.)

Intro to Construction IN230

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Industry Basics CE with C or better*

This course is designed to foster an awareness and understanding of construction technology. Through a variety of learning activities, students are exposed to many career opportunities in the production field. Students will be exposed to product design, materials and processes, tools and equipment, procedures, site preparation, foundations, building structures, installing utilities, and finishing and servicing structures. (A shop safety test must be passed in order to earn shop privileges. Be advised: misconduct in the shop can result in removal from the course.)

Intro to Auto IN236

Credit: 0.5 **Grade: 10,11,12**

Prerequisite: *Industry Basics AW with a C or better*

This course is an instructional program that prepares individuals to troubleshoot, service, and repair a variety of internal-combustion engines. Safety will be a key component of this class. Students will also be exposed to career opportunities related to automotive fields.

Building Trades I IN309

Credit: 1 **Grade: 11,12**

Prerequisite: *Pass Intro to Construction with a C or better*

This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to all aspects of construction. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, cost estimating, and blueprint reading.

Building Trades II IN311

Credit: 1 **Grade: 12**

Prerequisite: *Pass Building Trades I with a C or better*

This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. Student technical skill experiences include instruction and activities in safety principles and practices and advanced building and construction methods and codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge.

Automotive Technician I IN310

Credit: 2 **Grade: 11,12**

Dual Credit: *RLC, AUTO 1231—Intro to Automotive Technology (3 credit hours) / AUTO 1232--Auto Electrical Systems A (3 credit hours)*

Prerequisite: *Application required Intro to Auto with B or better*

This course introduces students to the basic skills needed to inspect, maintain, and repair automobiles and light trucks that run on gasoline, electricity, or alternative fuels. Instructional units include engine performance, automotive electrical system, integrated computer systems, lubrication, exhaust and emission control, steering and suspension, fuel systems, cooling system, braking, and powertrain.

Mathematics Credit: If the third year Math class was failed, the third year Math requirement for graduation may be fulfilled by completing this course.

Robotics I IN335

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

During the first semester students form a team of four to design, build, and program a robot to compete in the VEX robotics competition. Through this process, students learn mechanical design principles, problem-solving, and programming. The second semester introduces students to pneumatics and circuit design as well as soldering.

Continental Tire (Industrial Maintenance and Mechanics Strand)

Robotics II IN336

Credit: 1 **Grade: 11,12**

Prerequisite: *Robotics I*

This course expands upon students' knowledge of electromechanical systems to offer a more technical, industry-integrated curriculum. Programming topics expand to include PID structures and vision algorithms. Mechanical design integrates physics and computer modeling. Students will use the knowledge and skills acquired in the course to design and build a world-class VEX Competition robot. Two teams in the past have qualified for the world championships in Dallas. Lastly, students with an interest in unmanned aerial vehicles will have the chance to learn how to fly a DJI Phantom UAV and learn how to apply their skills to other industries such as agriculture and real estate.

Manufacturing I IN340

Credit: 2 **Grade: 11,12**

Dual Credit: *RLC, MACH 1201—Machining Technology I (4 credit hours) and WELD 1270—Introduction to Welding Processes (4 credit hours)*

Prerequisite: *Orientation to Manufacturing I & II with a grade of B or better*

This course offers a planned sequence of learning experiences which provide students with the opportunities to develop competencies needed for employment in a variety of manufacturing-related occupations. Course content will emphasize competencies common to many occupations such as applying safety practices, selecting materials, metal fabrication, performing bench work operations, performing precision measurement, performing layouts, performing housekeeping activities and setting and operating a variety of tools used for separating, machining, forming and combining materials. Units of instruction include arc, TIG and MIG welding, metallurgy, cutting metal using arc, plasma, and oxy-gas. In addition, students learn the basics of blueprint reading, precision measuring, layout, and production process planning.

Mathematics Credit: If the third year Math class was failed, the third year Math requirement for graduation may be fulfilled by completing this course.

Industrial Maintenance I IN363

Credit: 1 **Grade: 11,12**

Prerequisite: *Intro to Construction, Electricity, or Orientation to Manufacturing I & II with a grade of C or better*

This course is intended to provide students with planned learning experiences and activities that include safety, basic hand and power tools, mathematics, precision measurement, blueprint reading, introduction to electricity, basic carpentry, scaffolding and rigging, and basic welding and cutting. In addition, students are introduced to robotics and other automated manufacturing procedures.

Automotive Technician II IN410

Credit: 2 **Grade: 12**

Dual Credit: *RLC, AUTO 2230—Auto Electrical Systems B (3 credit hours)*

Prerequisite: *Automotive Technician I with a grade of B or better & recommendation of instructor*

This course is a continuation of and builds on the skills and concepts introduced in Automotive Technician I. This course includes instructional units in alternative fuel systems, computerized diagnostics, new vehicle servicing, automotive heating and air conditioning, transmissions, testing and diagnostics, drivetrain and overall automobile performance. Students in this course become class apprentices, as they may be asked to assist with Auto I students. These students display a high level of skill, responsibility & ability to work independently in the shop setting, thereby must have instructor recommendation to take the course.

Manufacturing II IN440

Credit: 2 **Grade: 12**

Dual Credit: *RLC, MACH 1202—Machining Technology II (4 credit hours) and WELD 1272—Structural Shielded Metal Arc Welding (4 credit hours)*

Prerequisite: *Manufacturing I with a grade of B or better & recommendation of instructor*

This second training level course should offer experiences, which expand upon competencies achieved during Manufacturing I. This course will begin to offer students the opportunity to specialize in specific areas of manufacturing such as machine tool set-up and operation, welding, quality control, automated machine set-up and operation and metal fabrication. Course content might include the following areas: metallurgy and heat treatment of metal, advanced machine set-up and operation, numerical control/computer, numerical control machining, performing supervisory functions and installation, and maintenance and repair of machinery, blueprint reading and related math. Students in this course become class apprentices, as they may be asked to assist with Manufacturing I students. These students display a high level of skill, responsibility & ability to work independently in the shop setting, thereby must have instructor recommendation to take the course.

Industrial Maintenance II IN463

Credit: 1 **Grade: 12**

Prerequisite: *Industrial Maintenance I with grade of B or better & recommendation of instructor*

This course builds on the skills and concepts introduced in Industrial Maintenance I. This course provides planned learning experiences and activities in safety, advanced mathematics, precision measurement, and blueprint reading. The program also includes instruction in preventative maintenance, automated control systems, automated manufacturing, hydraulic/pneumatic equipment, metal lathe operations, drill press and metal sawing operations, rotating equipment, pipe fitting, and insulation. Students in this course become class apprentices, as they may be asked to assist with Industrial Maintenance I students. These students display a high level of skill, responsibility & ability to work independently in the shop setting, thereby must have instructor recommendation to take the course.

CLUBS, ACTIVITIES & ATHLETICS

Mt Vernon Township High School offers a wide variety of clubs, activities & athletics. Students should choose an activity that suits their interests and will help prepare them for the future.

CLUBS & ACTIVITIES

ACES (Academic Challenge, formerly WYSE)
AV Club
Black Student Union
Bass Fishing
Chess Team
Children's Theater
Club America
Creative Writing Club
Family, Career, & Community Leaders of America (FCCLA)
Fellowship of Christian Athletes
Future Business Leaders of America (FBLA)
Health Occupations Students of America (HOSA)
Hi-Tri
JAVA Art and Literary Magazine
Jazz Band
Lifesavers
Marching Band
Math Team
Mock Trial
National FFA Organization
National Honor Society
Operetta (auditions in December)
Prom Planning Committee
ROBORAMS
Scholar Bowl
SkillsUSA
Spanish Club
Special Olympics
Speech and Acting Team
Student Council
Students Against Destructive Decisions (SADD)
Tabletop Gaming Club
Unified E-Sports
Vernois Publications Group (Newspaper & Yearbook)
YMCA Youth & Government

ATHLETICS

FALL	WINTER	SPRING
Cheerleading	Boys' & Girls' Basketball	Boys' & Girls' Track
Boys' & Girls' Cross Country	Boys' & Girls' Bowling	Girls' Soccer
Boys' & Girls' Golf	Boys' & Girls' Wrestling	Girls' Softball
Girls' Tennis	Cheerleading	Boys' Baseball
Boys' Football	Rockin' Rams	Boys' Tennis
Girls' Volleyball	Unified Basketball	
Boys' Soccer		
Unified Soccer		

IHSA

Policies are subject to change per ISHA and MVTHS school board policy. All official policies and regulations can be found on www.isha.org

ATTENDANCE

3.012 They shall have been enrolled and in attendance not later than the beginning of the eleventh school day of the semester. Exception may be considered only if written verification that delay in enrollment or attendance is caused by illness of the students or their immediate family or by other circumstances deemed acceptable by the Board of Directors which are submitted to the Executive Director for presentation to the Board of Directors.

3.013 Including a student's name on school attendance records for a period of ten (10) or more school days during any given semester, beginning with the date of the student's first physical attendance and ending with the date of the student's official withdrawal from school, shall constitute a semester of attendance for the student.

3.014 If a student does not attend school for ten (10) days in a semester, as defined in Section 3.013, but participates in any interscholastic athletic activity, the student shall be considered to have completed a semester of attendance, unless withdrawal from school occurs prior to completion of ten (10) days attendance and is necessitated by disabling illness or injury which is certified by a physician.

3.015 They shall not have any lapse of school connection during any given semester of greater than ten consecutive school days. Lapse of school connection for greater than ten consecutive school days shall render them ineligible for the remainder of the entire semester. Exceptions may be considered only if written verification that lapse in school connection is caused by illness of the students or their immediate family or by other circumstances deemed acceptable to the Board of Directors which are submitted to the Executive Director for presentation to the Board of Directors.

SCHOLASTIC STANDING

3.021 They shall be doing passing work in at least twenty-five (25) credit hours of high school work per week

3.022 They shall, unless they are entering high school for the first time, have credit on the school records for twenty-five (25) credit hours of high school work for the previous semester. Such work shall have been completed in the semester for which credit is granted or in a recognized summer school program which has been approved by the Board of Education and for which graduation credit is received

RESIDENCE

3.031 Public School Students: Students attending public member schools shall be eligible at the public high school in which they enroll, provided:

3.031.1 They reside full time with their parents, custodial parent or guardian appointed by a judge of a court having proper jurisdiction, or they currently and for at least the last two years prior to the student's enrolling in high school, have lived with another family member or relative who has provided full support and adult supervision for the student, as though they were the guardian, within the boundaries of the attendance area of the high school they attend; or -41-

3.031.2 They reside full time with their parents, custodial parent or guardian appointed by a judge of a court having proper jurisdiction, and have attended a minimum of the seventh and eighth grades as tuition-paying non- resident students in the district in which the high school they attend is located.

3.031.3 They reside full time with one birth or adoptive parent or other relative without assignment of custody or legal guardianship by the court, provided: (1) their residence is in the district in which the member school they attend is located; and (2) they attended that member school the previous school term. (3) if a freshman, they attended both seventh and eighth grade in the district.

3.031.4 In the cases where a Local Board Policy has been established for children of faculty members to attend the school tuition-free, the students shall have eligibility at the school where the parent teaches. In cases where a Local Board Policy has been established for children of faculty members in unit districts with one high school to attend the school tuition-free, the student(s) shall have eligibility in the district where the parent teaches.

3.031.5 In all other cases, students shall not participate until a ruling on their eligibility is made by the Executive Director.

3.034.3 International and Foreign Exchange Students: Students attending school in Illinois under the auspices of approved student exchange programs shall be considered eligible regarding residence and transfer for a maximum period of one calendar year, commencing with the date of their enrollment and beginning attendance at an IHSA member school. To be considered for approval, a foreign exchange program must be approved by the IHSA and the Council on Standards for International Educational Travel (CSIET).

IHSA

TRANSFER

The eligibility of a student who transfers attendance from one high school to another high school is subject to the following Sections 3.041-3.047 and their sub-sections. Such student must additionally be in compliance with the applicable residency provisions of By- laws 3.031-3.034 and their respective sub-sections after the transfer. Except as provided in Section 6.010 of these by-laws, a student who does not comply with the applicable provisions of Sections 3.041-3.047 of these by-laws and their sub-sections shall be ineligible for a period not to exceed 365 days.

3.041 In all transfer cases, both the principal of the school from which the student transfers and the school to which the student transfers must approve of the transfer and execute a form provided by the IHSA Office. This form is to be initiated and signed by the principal of the school to which the student transfers and provided to the principal of the school from which the student transfers for signature by that principal. The concurrence of the principals accepting a transfer shall not be determinative of eligibility or binding on the Executive Director and/or the Board of Directors who shall have the discretion to investigate the accuracy of such conclusion and to override the acceptance of a transfer if evidence of violation or avoidance of non- compliance with any by-law, or recruiting in connection with the transfer is found. A student is not eligible to participate in an interscholastic contest until the transfer form, fully executed by both principals, is on file in the offices of the school to which the student transfers.

3.042 After the official start date of an IHSA sport season for the current school year, if a student changes attendance from that high school to another high school, the student shall be ineligible for the remainder of the school year in any sport in which he/she participated or was participating in a practice or interscholastic contest in the current school year at the school from which the transfer occurs; or Once classes begin in a school for the current school year, if a student changes attendance from that high school to another high school, the student shall be ineligible for a period of thirty days, commencing on the first day of attendance at the new high school, in any sport in which he/she was not participating or had not participated during the current school year at the school from which the student transferred.

Homeschool Students

257) HOME SCHOOL STUDENT ELIGIBILITY

Q. May a student who is home schooled, participate on a high school team or in an interscholastic activity program?

A. Yes provided the student is enrolled at the member high school, the student is taking a minimum of twenty-five credit hours of work at the member school or in a program approved by the member school, and, the student must be granted credit for the work taken either at the member school or in a program it approved. (By-law 4.011)

SCHOOL HISTORY

HISTORY

The Mt. Vernon Township High School is the successor to the high school formerly maintained by the city of Mt. Vernon (District 80) in the old Franklin School Building which was razed in 1949. The High School was maintained in this building from September, 1880, until May, 1905, and its first graduating class in 1884 had 14 members.

Mt. Vernon Township High School began work in what was known as Building B in 1905 with a teaching staff of 7 members and an enrollment of 162. In 1906 the first graduating class from this building had 13 graduates.

Building C was added to the school in 1921, Building A, the auditorium and the gymnasium in 1936-37, and the Vocational Building in 1950. The school celebrated its fiftieth anniversary in October 1955. In 1963-64 Building G was completed, a new heating plant was installed, and Buildings B and C were remodeled. In the fall of 1964 the Community College moved into Building B.

In 1967 the Community College became Rend Lake College under a separate board of education and is now housed in its new campus located near Ina, Illinois.

The Career Education Center, Building H, was completed and occupied in 1979.

Voters approved a bond to build a new high school in April 2011. FGM Architects was the company that designed the campus.

In April 2012 the district announced it was obtaining 82 acres of land for a new campus, and on August 29, for $1.5 million, the district acquired the land. Groundbreaking occurred in August 2014, for the new 82-acre campus located at Wells Bypass and Ambassador Road on the southwest edge of Mt. Vernon. The former campus permanently closed in June 2016. The current Mt. Vernon Township High School campus at 11101 Wells Bypass opened August 19, 2016, with a ribbon cutting by Illinois governor Bruce Rauner.

IMPORTANT HONORS

State Basketball Champions 1920, 1949, 1950, 1954.

ICCA State Cheerleading Champions 1997, 2003, 2008, 2009

State Music Sweepstakes Champions 1949, 1951, 1956, 1957, 1961, 1962, 1963, all time high point record 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975 (867 points), 1979, 1980, 1981, 1984, 1985, 1986, 1987, and 1997 (second)

Vernois News - NSPA All-American 1947, 1948, 1949, 1950, 1951, 1953, 1954, 1956, 1969, Blue Banner Award 2010, 2011, 2012, 2013, 2014, 2017, 2024, 2025.

SISPA Blue Banner Award 2010, 2011.

Vernois Yearbook - SISPA Golden Dozen Award 2002, 2003, 2004, 2005, 2006, 2007, 2009, 2010, 2011
Southern Illinois School Press Association (SISPA) Golden Dozen Award 2002, 2003, 2004, 2005, 2006, 2007, 2009, 2010, 2011, 2012, 2014, 2024
Balfour Publishing Yearbook Yearbook National Award 2010, 2013, 2014

Automotive Troubleshooting (Plymouth - AAA) - National Finalist - 1972, 1973, 1976, 1978, 1979 (4th place), 1986 (4th place), 1987 (4th place)

Illinois Student Historians 1995, 1996

National Council of Teachers of English Achievement Awards in Writing 1995, 1997

Student Council - Little Egypt District of Student Councils (LEDSC) Board Member 1996-2024, 2026
Illinois Association of Student Councils (IASC) State Board Member 2015, 2016, 2018, 2019, 2020, 2022, 2023, 2024, 2025, 2026
LEAD National Leadership Conference Host 2011

Illinois English Bulletin; Best Student Poetry and Prose 1998.

Golden Apple Scholar of Illinois 1999.

International Special Olympics Student Athlete 2007.