



2024-2025
Career Planning
Guide

Mathematics

Algebra I (1)
Algebra 1A (1)
Algebra 1B (1)
Geometry (1)
Advanced Geometry (1)
Algebra II (1)
Advanced Algebra II (1)
Dual Credit College Algebra (.5)
Statistics (.5)
Trigonometry (.5)
Pre-Calculus (.5)
Calculus (1)
Math for Everyday (1)

English

English I (1)
English II (1)
English III (1)
English IV (1)
English College Prep (1)
Practical English (1)
Film & Literature (1)
Creative Writing (.5)
Professional Writing (.5)

Science

Biology (1)
Physical Science (1)
Biology II (1)
Anatomy and Physiology (1)
Ecology (1)
Chemistry (1)
Physics (1)

Social Studies

American History (1)
American Government (1)
Contemporary Issue (.5)
World History (1)
World Geography (1)
Current Events (1)
Psychology (.5)
Sociology (.5)

Foreign Language

Introduction to Spanish (.5)
Spanish I (1)
Spanish II (1)
Advanced Spanish (1)

Health and Physical Education

Health (.5)
Advanced Weights (1)
Freshmen P.E. (1)
Lifetime Sports (1)

Fine Art

Art and Design (1)
Painting (1)
Drawing (1)
Ceramics (1)
Advanced Art (1)
Marching/Concert/Pep (1)
Jazz (.5)
Drumline (.5)
Concert Choir (1)
Treble Choir (1)
Chamber Choir (1)

Business, Technology, & Marketing

Computer Science I (.5)
Computer Science II (.5)
Introduction to Graphic Design (.5)
Introduction to Business (.5)
Entrepreneurship (1)
Business Communication (.5)
Business Law (.5)
Emerging Business Technology (.5)

Family & Consumer Sciences

Career and Family Leadership Skills (1)
Foods I (.5)
Foods II (.5)
Creative foods (.5)
Child Development (.5)
Child Development II (.5)
Fashion Design and Construction (.5)
Housing and Interiors (.5)

Agriculture

Agriculture Science I (1)

Agriculture Science II (1)
Agriculture Business and Communication (1)
Agriculture Construction (1)
Agriculture Power (1)
Agriculture Structures (1)
Animal Science (1)
Greenhouse Operation and Management (.5)
Floriculture (.5)
Introduction to Mechanics (1)

Other Electives

Dual Credit Intro to Teaching (.5)
Dual Credit Intro to Field Experience (.5)
Yearbook (1)
Mentoring (1)

HOLDEN HIGH SCHOOL CONTACT INFORMATION

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Central

Central Office

NOTICE OF NONDISCRIMINATION POLICY

In accordance with the provisions of the Americans With Disabilities Act of 1990, Title VI of the Civil Rights Act of 1964 (as amended), Title IX of the Educational Amendments of 1972, P.L. 93-112, and Section 504 of the Rehabilitation Act of 1973 and the regulations thereunder, it is the policy of the Holden R-III School District that no person shall, because of age, sex, race, disability, or national origin be excluded from participation in, be denied the benefits of, or subjected to discrimination under any education program or activity of the District, including the employment of staff personnel. Written district policies concerning the rights and responsibilities of employees and students are available at the Holden R-III School District's Central Office, located at 1612 South Main Street. Inquiries by persons about their protection against discrimination under The Americans With Disabilities Act, Title IX, Title VI, or P.L. 93-112 and the Section 504 may be directed to:

Holden R-III School District

Attn: Director of Special Services

1612 South Main Street, Holden, MO 64040

(816) 850-4444

bmconville@holdenschools.org

GRADUATION REQUIREMENTS

Core Area	Credits	Courses
Language Arts	4	English I-Grade 9 English III-Grade 10 English III, College Prep English-Grade 11 English IV, College Prep English, DC English Composition 1 & 2, Creative Writing, Professional Writing, Film and Literature-Grade 12
Mathematics	4	Algebra A/B/I*, Geometry, Algebra II, Trigonometry & Pre-Calculus, Math for Everyday, DC College Algebra, Calculus, Statistics
Science	3	Biology-Grade 9 Physical Science, Biology II-Grade 10 Chemistry/DC Chemistry, Ecology, Biology II, Physics, Anatomy & Physiology -Grade 11 &12
Social Studies	3	American History-Grade 9 World History, World Geography, Current Events, Psychology, Sociology, DC History-Grade 10 &12 American Government-Grade 11
Personal Finance	½	Personal Finance, DC Personal Finance -Grade 11
Physical Education	1	Lifetime Sport, Advanced Fitness- Grades 9-12
Health	½	Health-Grade 9
Fine Arts	1	Band, Choir, Music, Art
Practical Arts	1	Agriculture, Business, Family and Consumer Science
Electives	10	Additional courses taken in any of the above areas
Total Credits	28	

American Civics Test: All graduates must take and pass an American Civics test produced by the United States Citizenship and Immigration Service.

U.S. and Missouri Constitution Tests: Students must pass the U.S. Constitution test and the Missouri Constitution test in order to graduate.

CPR Requirement: All graduates shall be required to have completed 30 minutes of CPR training.

End of Course (EOC) Exams: Students are required to complete state assessments EOCs in Algebra I, Algebra II (only if taken 8th grade Alg I EOC), English II, Biology and American Government.

Warrensburg Area Career Center: Please note ½ of a Math credit, ½ of an English credit, and 3 elective credits will be awarded to students who pass their classes at WACC for the school year.

*Algebra 1 course taken in 8th grade will be awarded as high school credit.

POST HIGH SCHOOL EDUCATION ADMISSION REQUIREMENTS

Curricular Areas	Entering Freshman University of Missouri System Credit Requirements	Missouri Public 4 year Colleges (UCM, MSU) Credit Requirements	Community & Technical Colleges (Metropolitan Community College)	Military Careers	Apprenticeships
Language Arts	4 credits	4 credits	High School Diploma, GED or a Certificate of Completion of Home School Program	High School Diploma, GED or a Certificate of Completion of Home School Program; Qualifying score on ASVAB exam	High School Diploma, or GED and must be at least 18 years of age
Mathematics	4 credits Alg I & Higher	3 credits Alg I & Higher			
Science	3 credits No General Science 1 must be a lab class	3 credits No General Science 1 must be a lab class			
Social Studies	3 credits ½ Government	3 credits ½ Government			
Fine Arts	1 credit	1 credit			
Foreign Language/ Additional Electives	2 credits 2 years of the same foreign language	3 credits Selected from foreign language &/or core courses			
Other Requirements	Plus appropriate class rank and ACT score	Plus appropriate class rank and ACT score			

The above chart is for informational purposes only. Please check with each college or university for their exact admission requirements, including ACT scores and GPA requirements.

A+ PROGRAM INFORMATION

What is the A+ Program?

In an effort to make college or vocational education available to every Missouri high school graduate, the Missouri General Assembly established the A+ schools program as a part of the Outstanding Schools Act of 1993. Graduates of designated A+ schools who successfully complete the requirements of the program may be eligible to receive two years of tuition benefits to a designated public community college, vocational or technical institution in Missouri. Beginning with spring 2022, students have the opportunity to use A+ funds to cover dual credit tuition costs based on application and financial need. All funds are subject to Missouri General Assembly allocating monies for the A+ Program.

The goals of the A+ program are:

- All Students will graduate from high school
- All students will complete high school studies that are challenging and that have identified learning expectations.
- All students will proceed from high school graduation to college, post-secondary vocational or technical school or a high wage job with opportunities for workplace skill development.

What are the program requirements?

- Attend an A+ School for 2 years prior to graduation
- Complete an A+ agreement form prior to February 1st of senior year.
- Graduate with an **unweighted** cumulative GPA of 2.5 or higher on a 4.0 scale
- Graduate with at least a 95% cumulative attendance record for grades 9-12
- Perform 50 hours of unpaid tutoring
- Score of Proficient or Advanced on a state level math EOC exams or meet the approved math ACT subscore.
- Maintain a record of good citizenship and avoid the use of alcohol and unlawful drugs
- Apply for non-pay back scholarships by completing a FAFSA (Free Application for Federal Student Aid)
- Male students must register with the Selective Service

How do I become an A+ student?

It is easy to become part of the A+ Schools Program. Simply complete the A+ Schools Program Agreement and return to the A+ Coordinator. It is recommended that students sign up early in their high school careers. This allows students to receive correspondence from the A+ Coordinator regarding their eligibility status and any program updates.

It is also recommended that students enroll in the A+ Program even if they plan to attend a four-year college or enter the workforce rather than attend college. The A+ Program is an opportunity for students to access additional education after high school; it does not obligate them to use the A+ tuition reimbursement. The A+ benefits are available to A+ graduates up to 48 months after high school graduation.

For any further information please contact Melissa Kackley , A+ Coordinator.

ASSESSMENT INFORMATION

Standardized tests are designed to give a common measure of students' performance. These assessments help compare an individual's performance with the performance of a group of students from a given class, school, or school system. Standardized achievement tests measure how much students have already learned about school subjects such as reading, math, language skills, spelling, or science. On the other hand, standardized aptitude tests measure your student's ability to learn in school. They measure verbal ability, mechanical ability, creativity, clerical ability, or abstract reasoning.

ACT (American College Test): The ACT is a battery of four examinations in English, math, reading, and science reasoning, each of which yield separate scores measuring developed abilities. The ACT is required by many colleges as part of the application process for admission, scholarship determination, dual credit eligibility for some courses, and NCAA athletic eligibility determination. It is recommended students register to take the ACT multiple times beginning their sophomore or junior year. The ACT is administered at HHS on the national test dates. Visit www.actstudent.org for more information.

ASVAB (Armed Services Vocational Aptitude Battery): The ASVAB is a multiple-aptitude battery that measures development of academic skills. The ASVAB also provides career information for various civilian and military occupations and is an indicator for success in future endeavors including college, vocational school and/or a military career. The ASVAB is administered to all students during their junior or senior year as a part of our District Assessment Program.

End of Course Assessments (EOC): End of Course assessments are required by the Missouri Department of Elementary and Secondary Education for various high school level classes including English II, Biology, Algebra I, Algebra II (only for students who took Algebra I EOC during 8th grade year) and Government.

PSAT/NMSQT (Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test): The PSAT/NMSQT measures verbal mathematics reasoning skills important for academic success in college. It serves three purposes: gives the student writing practice for the SAT I; is the first step in qualifying for scholarships sponsored by the National Merit Scholarship Corporation and other scholarship programs; gives the student the opportunity to participate in the Student Search Service. This is offered to students during their junior year for NMSQT qualification.

SAT (Scholastic Aptitude Test): The SAT is a test used to predict student performance in college. Required by some schools as part of the application process and scholarship determination, this three-hour test has three main sections—reading, math and writing. Students must register for one of the off-site test dates by visiting www.collegeboard.org.

TSA (Technical Skills Attainment) & IRC (Industry Recognized Credentials): Technical Skills Attainment exams are used to measure a student's competency level on a skill assessment aligned with industry-recognized certifications in Career and Technical Education (CTE) programs. It is a requirement under The Perkins Act of 2006. Industry recognized credentialing tests are assessments that are subject specific nationally recognized certificates and/or licensure tests.

ATHLETIC ELIGIBILITY

Missouri State High School Activities Association (MSHSAA) Eligibility: Knowing and following all MSHSAA standards will enable a student to protect his/her eligibility for MSHSAA interscholastic competition. Activity participation should be for all students making appropriate progress toward graduation and otherwise in good standing.

For students in grades 9-12: Grades received the preceding semester will determine eligibility to participate in interscholastic activities.

- The student shall have earned, the preceding semester, a minimum of 3.0 units of credit. This means students must pass 6 of 7 classes the previous semester. This includes in-seat and virtual courses.
- The student shall currently be enrolled in and regularly attending courses that offer 3.0 units of credit. (Note: A+ tutoring is a non-credit class)
- A beginning ninth grade student shall have been promoted from the eighth grade to the ninth grade for the first semester of eligibility.
- A student must be making satisfactory progress towards graduation as determined by local school policies. There is a maximum age limit for participation.

Collegiate Athletic Eligibility: Student-athletes wishing to continue playing sports in college must register with the eligibility organization that is appropriate for the collegiate level that they are pursuing. Student-athletes must complete a full profile in each system, pay a registration fee (waivers are available for students eligible for free/reduced lunch), request their transcript be sent to the organization, submit test scores directly for ACT/SAT to the eligibility center, and verify they meet all requirements. Student-athletes should begin this process by their junior year. For more specific information please see the information below regarding both organizations.

National Association of Intercollegiate Athletics (NAIA): Please visit www.playnaia.org for information about eligibility to play NAIA athletics and to complete your profile.

National Collegiate Athletic Association (NCAA): The NCAA Clearinghouse Eligibility Center must certify any student before they can play at the NCAA Division I, Division II or Division III level. Part of that certification process includes making sure that the student has successfully taken the required number of core courses. Please visit <http://web3.ncaa.org/ecwr3> to register for your profile.

MISSOURI COURSE ACCESS PROGRAM (MOCAP)

MOCAP allows eligible students the opportunity to take additional courses through a virtual platform that may or may not be available at their home district. All MOCAP enrollments must be approved through the sending district and must align with a student's ICAP and graduation plan. Interested students should speak with their Counselor for more information. Holden is not responsible for enrolling students in the MOCAP platform that they choose. Once a student is withdrawn from Holden, Holden is no longer responsible for providing educational needs.

CAREER PLANNING INFORMATION

Students have several options to choose from for their post-high school plans. Whether they are looking at joining the workforce, enrolling in a college or vocational school, or enlisting in the military, a strong foundation of coursework is important. The OHS Counseling office works with students during the year to complete activities to help them identify areas of interests they may lead to a career plan which will assist them when selecting courses. The following pages provide many tools to help our students choose the courses and activities that are most relevant to their post-high school plans.

Missouri Connections: This is a comprehensive online platform that provides students, parents, and educators with educational planning resources and is sponsored by the Missouri Department of Elementary and Secondary Education. Each student has their own login information for this system and will complete several career exploration activities including interest surveys, skill assessments, evaluation of job trends, resume building, and a course planner to help them map out their high school coursework. Visit www.missouriconnections.org for more information.

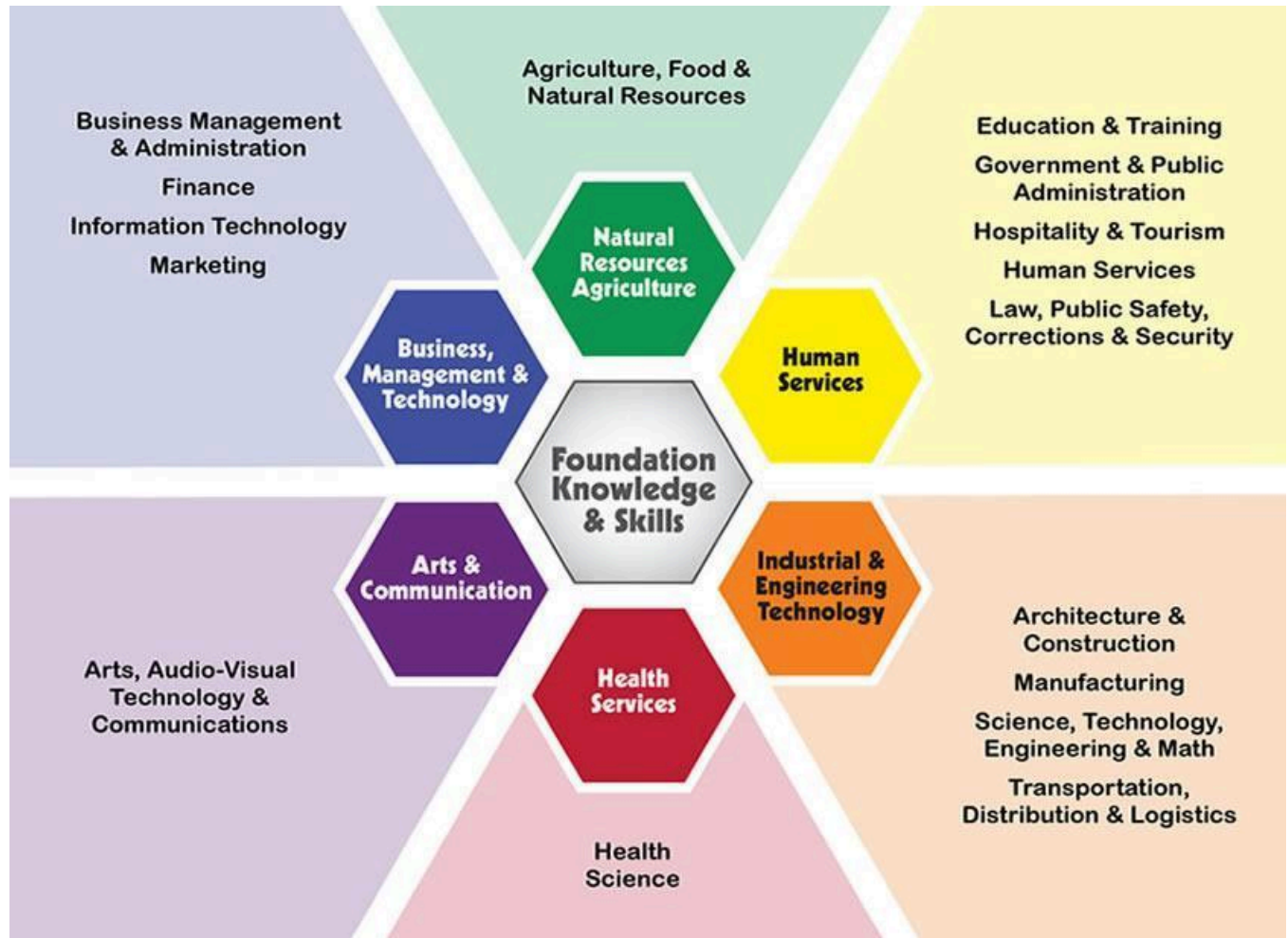
Career Paths: Career paths are six (6) different areas of occupations/careers grouped according to participants' interests and talents or skills. All paths include a variety of occupations that require different levels of education and training. Selecting a career path provides a student with an area of FOCUS, along with FLEXIBILITY and a VARIETY of ideas to pursue. The focus of career paths is on helping students choose a career path, not a specific occupation. Selecting a career path is not a lifelong commitment; it is a place to begin focusing one's energies. As students take different courses and learn more about themselves and careers, they will probably change career paths. Students who understand the career paths concept will be aware that there are a variety of other related possibilities if the first path no longer fits them. If different career paths become more interesting, the students can reevaluate plans, make appropriate decisions, and revise their high school plans as necessary.

Career Clusters: Missouri further expands the career paths into 16 Career Clusters. It is recommended that students select a Career Cluster of interest before or during high school to shape their plans for coursework. The Career Clusters framework recommends rigorous academic coursework for all students, so changing their mind won't put them behind. As a high school student, choosing a Career Cluster is about selecting an area for deeper exploration, not locking in a life-long career plan. The Career Clusters framework creates a direct link between what students are learning today and what they will do for a living tomorrow. Students are more motivated because they can see the relevance of their education and their education involves rigorous academics applied to real world situations.

Programs of Study: Programs of Study are designed to help students choose coursework and activities based on their selected Career Cluster. Each Program of Study includes course recommendations, opportunities at Area Career Centers, assessment information, relevant activity and organization involvement, post-secondary options, and potential careers specific to each of the 16 Career Clusters. The Programs of Study can be found on pages 9-40.

Individual Career and Academic Plan (ICAP): An ICAP is an outline of the actual courses and activities that a student participates in during their high school years. The student is encouraged to review their ICAP on a yearly basis with their parents, counselor, and advisor.

MISSOURI CAREER PATHS AND CAREER CLUSTERS



HHS COURSE INFORMATION

Weighting System: Core area courses which are above the Coordinating Board of Higher Education requirements for entrance into Missouri's four-year colleges/universities are weighted. These include honors, dual credit, and AP courses taken at HHS as well as any of our partner districts or virtual platforms. Weighted courses have a 0.334 quality point added to each semester grade to be factored into the student's GPA.

Dual Credit: These courses offer students the opportunity to earn college credit at a significantly reduced cost while still in high school. These college-level courses are taught either by a high school teacher or online via college professors. Students must meet the specific eligibility requirements of the corresponding university in order to enroll in the course. The fees vary for each of the courses based on the university and number of credits earned and are payable by the student. Students are also responsible for all required course materials: textbooks, online access fees, etc. Students are recommended to check with their prospective college/university to determine transferability of dual credit. Once the course is completed, the grade will be transcribed as received from the college/university. The summer before a student is entering their sophomore year, they are eligible to take Public Speaking through Counselor and Principal approval. Sophomores are only eligible to take up to 2 Dual Credit courses per year and 1 course in the summer prior. These courses include: Public Speaking, Psychology, and Sociology.

Schedule Change Policy: Students are encouraged to give careful consideration and make course selections based on academic and career preferences. Their course requests are used to determine the master school so it is important to have the most accurate information. Schedule changes may be requested within the first five (5) days of the semester. Course change requests based on teacher or peer preference are not allowed.

LANGUAGE ARTS

The following courses count as Language Arts credits unless noted

NOTE: Any student that does not pass a required Language Arts class must repeat the course or complete the course through credit recovery before or while moving on to the next course.

English I (H1005) : Grade 9

Prerequisite: None

This course is designed to introduce students to skills in the areas of standard grammar and usage; composition; public speaking; reading and interpreting literature, and understanding technical communications. Real life situations and applications will be emphasized. Students will complete projects on class novels and MLA formatted research.

Credit: 1 unit = 2 semesters (year-long course)

English II (H1010): Grade 10

EOC Tested Course

Prerequisite: Passed English 1

This course builds on the foundations of English I. Students will continue to develop their skills in the areas of standard grammar and usage; composition; public speaking; reading and interpreting literature; using and understanding technical communications. Both creative and formal writing skills will be emphasized. Students will complete novel projects and essays based on novels and an MLA formatted research projects.

Credit: 1 unit = 2 semesters (year-long course)

English III (H1015):

Grade Level: 11

Prerequisite: Passed English 1 & English 2

This course is designed to build on skills already acquired in Language Arts II. Students will enhance their writing style through essays and real-world writing opportunities. Grammar, usage, and mechanics will be

emphasized. Students will read and interpret informational and fictional literature and complete multiple independent projects.

Credit: 1 unit = 2 semesters (year-long course)

College Prep English (H)

Grade Level: 11 & 12

Prerequisite: Passed English 1 & English 2

This course is designed to give the college-bound senior an intensive review of the grammar, usage, and mechanics skills necessary to be a sophisticated writer. Several types of college writing will be studied, including but not limited to technical writing, process analysis writing, persuasive writing, research writing, and summary and abstract writing. This course will also contain a study of representative works of British Literature from the Anglo-Saxon Period to the Victorian Age. Some independent study is required. A portion of the class will focus on the historical influences of each period. Emphasis will be placed on literary analysis, class discussion, and essays. Additionally, this course will also involve a research paper and presentation skills.

Credit: 1 unit = 2 semesters (year-long course)

English IV (H1080):

Grade Level: 12

Prerequisite: Passed English 1, 2, & 3

This course will focus on the reading and writing skills necessary to move on to college, technical training, or a career after high school. This course will focus on sentence structure and basic writing mechanics, as well as reading comprehension and application. Students will be expected to analyze texts and make inferences and conclusions based on those texts. Students will complete a variety of short writing assignments, quizzes, and write one research paper. Students will also practice presentation and interviewing skills.

Credit: 1 unit = 2 semesters (year-long course)

Practical English (H1030):

Grade Level: 10-12

In this course, students will complete a novel project and write a research paper, along with learning essential grammar and mechanics skills. This is only an option for students who have previously failed an ELA course.

Credit: 1/2 unit= 1 Semester (semester long course)

Creative Writing: (H1076)

Grade Level: 12

This course will focus on expressive writing in many different forms. Students will have the opportunity to explore several different types of poetry and prose styles, as well as responding to literature, art mediums, quotes, and music. Originality and writing that shows thought will be emphasized. Strategies to avoid writer's block and new ways to uncover ideas for writing will be studied. Peer reviews and sharing ideas are essential elements to this course.

Credit: 1/2 unit= 1 Semester (semester long course)

Professional Writing: (H)

Grade Level: 12

This course introduces students to several forms of professional writing, such as review and profile writing, public relations and marketing writing, and writing for the Web. Students will compose, revise, and edit their own texts and also read and study "real world" examples of professional writing

Credit: 1/2 unit = 1 Semester (semester long course)

Film & Literature: (H)

Grade Level: 12

Students will read about the history of film, the reflection or influence of film on the culture, and issues of interpretation, production, and adaptation. Students will examine the visual interpretation of literary techniques and the limitations or special capacities of film versus text to present a literary work. Students will examine how films portray the human condition and the roles of men and women and the various ethnic and cultural minorities in the past and present. Different genres of film will be explored.

Credit: 1 unit = 2 semesters (year-long course)

MATHEMATICS

The following courses count as Mathematics credits

NOTE: Course placement is determined by teachers based on their performance on placement exams or in previous classes. Any student that does not pass a required mathematics course must repeat the course or complete the course through credit recovery before or while moving on to the next course.

Algebra IA (H3005):

Grade Level: 9

A math course designed to give students a basic understanding of algebraic concepts and to contribute to the acquisition of algebraic skills. This course will deal with real number system, solving equations, polynomials, functions, and word problems. This class is slower paced, focusing on more practice and foundational skills. It covers the same objective as Algebra 1 first semester.

Credit: 1 unit = 2 semesters (year-long course) (NCAA recognizes as .5 credit)

Algebra IB (H3006):

Grade Level: 10

EOC Tested Course

Prerequisite: Algebra IA

A math course designed to give students a basic understanding of algebraic concepts and to contribute to the acquisition of algebraic skills. This course will deal with real number system, solving equations, polynomials, functions, and word problems. This class is slower paced, focusing on more practice and foundational skills. It covers the same objective as Algebra 1 second semester.

Credit: 1 unit = 2 semesters (year-long course) (NCAA recognizes as .5 credit)

Algebra I (H3010):

Grade Level: 9

EOC Tested Course

Prerequisite: None

A math course designed to give students a basic understanding of algebraic concepts and to contribute to the acquisition of algebraic skills. This course will deal with real number systems, solving equations, polynomials, functions, and word problems.

Credit: 1 unit = 2 semesters (year-long course)

Advanced Geometry (H3007):

Weighted

Grade Level: 9

Prerequisite: Algebra 1 or equivalent, or Teacher Recommendation, or Placement Test

This class is offered to students taking Accelerated Algebra II their sophomore year.

An accelerated math course designed to understand the nature of a mathematical system and to appreciate the basic structure of Geometry. This course will deal with properties of polygons, solving right triangles, features on a plane, area, and volume. Students will learn content at an accelerated pace and more depth of each concept will be covered.

Credit: 1 unit = 2 semesters (year-long course)

Geometry (H3020):

Grade Level: 10-11

Prerequisite: Algebra I or Algebra IB

This course is to help a student better understand the nature of a mathematical system and to appreciate the basic structure of geometry. Also, to develop powers of spatial visualization and to recognize the way in which Algebra and Geometry complement each other.

Credit: 1 unit = 2 semesters (year-long course)

Algebra II (H3016):

Grade Level: 11-12

Prerequisite: Geometry

This course is a review of skills learned from Algebra I and a development of more advanced topics in Algebra.

Credit: 1 unit = 2 semesters (year-long course)

Advanced Algebra II (H3016):

EOC Tested Course (if taken 8th Grade Algebra 1)

Weighted

Grade Level: 10-11

Prerequisite: Algebra I or equivalent (C+ or better each semester)

This class is offered to students taking Trigonometry/Pre-Calculus the following year and a senior level math course their senior year.

An accelerated math course designed to review skills learned from Algebra I and a development of more advanced topics in Algebra. This course will deal with transformations of functions, properties of logarithms and exponents, simplify radical and rational expressions, graphing polynomials. Students will learn content at an accelerated pace and more depth of each concept will be covered.

Credit: 1 unit = 2 semesters (year-long course)

Trigonometry (H3025):

Weighted

Grade Level: 11-12

Prerequisite: Algebra II

This course will enable the student to apply algebraic and trigonometric concepts and skills. This will include solving right triangles, the unit circle, trigonometric graphs, law of sines and cosines, trig identities.

Credit: 1/2 unit = 1st semester (half-year course)

Pre-Calculus (H3030):

Weighted

Grade Level: 11-12

Prerequisite: Trigonometry

This course prepares a student for calculus, abstract algebra, and probability. This course will deal with polar graphs, detailed look at polynomials, conic sections, probability, and an introduction of limits.

Credit: 1/2 unit = 2nd semester (half-year course)

Calculus (H3050):

Grade Level: 12

Weighted

Prerequisite: Trigonometry/Pre-Calculus

Students will study the calculus of functions of one independent variable. The four major concepts of calculus--limit, derivative, definite integral, and indefinite integral--will be studied using numeric, algebraic, graphic, and verbal approaches.

Credit: 1 unit = 2 semesters (year-long course)

Statistics (H3055):

Grade Level: 12

Prerequisite: Algebra II (C+ or better each semester)

This course will cover descriptive statistics, categorical and quantitative data, and numerical distributions including standard deviation, normal models, and linear regression.

Credit: 1/2 unit = 1 semester (half-year course)

Math for Everyday Living (H3060):

Grade Level: 12

Prerequisite: 3 Math credits; you may be enrolled in another math class concurrently.

This course will emphasize math as used in everyday living. The course will focus on topics such as insurance, tax deductions, social security, income taxes, loans, wages, savings accounts, and planning a family budget.

Credit: 1 unit = 2 semesters (year-long course)

MATH1111 (College Algebra) (Spring): (H9706)

Weighted

Grade Level: 11-12

Prerequisite: ACT Math Score 19-21 AND Algebra II with a B or better OR

HS GPA \geq 3.5 AND Algebra II with a C or better OR

ACT Math Score 22 or above and Algebra II

Continuation of basic algebra including such topics as linear and quadratic equations, linear and quadratic inequalities, second degree relations and functions, systems of equations, and exponential and logarithmic functions. If taking College Algebra for high school credit only, you will be expected to meet the same standards as the requirements for college credit.

Curriculum through University of Central Missouri taught at HHS in the classroom setting:

Credit: 1/2 unit = 1 semester (half-year course)

3 units of college credit

SCIENCE

The following courses count as Science credits unless noted

NOTE: Any student that does not pass a required Science class must repeat the course or complete the course through credit recovery before or while moving on to the next course.

Biology (H2025):

Grade Level: 9

EOC Tested Course

Prerequisite: None

This course is designed to ensure that students have mastered concepts, principles, and laws of Biology. Students will be able to competently apply the scientific method and can organize and solve scientific problems. Main units of study include: cells and cell functions; ecology and the interactions of living things; and genetics. Various labs will be conducted throughout the school year.

Credit: 1 unit = 2 semesters (year-long course)

Physical Science (H2010):

Grade Level: 10-11

Prerequisite: None

This course deals with the basic fields of chemistry and physics with relationship to matter and energy, as well as forces and motion. Other main topics include: metric measurement, scientific method, kinetic and potential energy, momentum and waves.

Credit: 1 unit = 2 semesters (year-long course)

Biology II (H2035):

Grade Level: 10-11

Prerequisite: Biology 1

This course is designed to introduce students to secondary life science courses. Including, botany, entomology, microbiology, zoology, and anatomy of invertebrates and vertebrates. Students will be able to participate in a variety of labs including multiple dissections. The structure is projected based in nature, students will be able to learn through hands-on experience.

Credit: 1 unit = 2 semesters (year-long course)

Anatomy and Physiology (H2015):

Grade Level: 11-12

Prerequisite: Biology (with a minimum grade of C)

(This class will be offered every year.)

This course will cover the basics of human anatomy and physiology of the body with an emphasis on how the body works and why. Ideal for college bound students and those pursuing careers in medicine, health services, sports medicine, or physical therapy. Some of the systems covered will be cells, tissues, muscles, bones, circulatory, and digestive.

Credit: 1 unit = 2 semesters (year-long course)

Ecology (H):

Grade Level: 11-12

Prerequisite: Physical Science & Biology

Students will explore ecological concepts and the scientific research that has built our understanding of interactions in nature at the organismal, population, community, ecosystem, and global levels. Students will acquire an understanding of how the different levels of ecology are studied, how these levels relate to each other, and what properties are important at increasing levels of complexity. Additional topics include evolutionary ecology and contemporary environmental change and its consequences. Students will engage in techniques appropriate to ecological study and gain experience in experimental design, data analysis and interpretation, and the communication of results

Credit: 1 unit=2 semesters (year-long course)

Chemistry (H2005):

Weighted

Grade Level: 11-12 (Available for 10th grade through a placement test)

Prerequisite: Physical Science

This course is an introductory course to inorganic chemistry. The atomic nature of chemistry, as well as experimental and physical chemistry, will be studied. Theoretical ideas will be tested frequently in laboratory systems.

Credit: 1 unit=2 semesters (year-long course)

Physics (H2008):

Grade Level: 11-12

Weighted

Prerequisite: Chemistry or Physical Science (with a C higher), Algebra II (enrolled in concurrently or have passed with a C or higher)

A general introduction to the fundamental laws of physics. Laboratory will be used a great deal, along with independent research on a variety of topics such as acceleration, vector quantities, gravitational forces, force, work, energy, electricity, particles, and waves.

Credit: 1 unit=2 semesters (year-long course)

SOCIAL STUDIES

The following courses count as Social Studies credits unless noted

NOTE: Any student that does not pass a required Social Studies class must repeat the course or complete the course through credit recovery before or while moving on to the next course.

American History (H4015):

Grade Level: 9

Prerequisite: None

A study of American history in the 20th century. Topics to discuss include America at the turn of the century, growth as a world power, the Great Depression, the Cold War, and America in modern times.

Credit: 1 unit = 2 semesters (year-long course)

American Government (H4010):

Grade Level: 11

EOC Tested Course

Prerequisite: American History

The study of the structure of the U.S. government and its application to the citizens. The class will study all levels of government: local, state, and federal.

Credit: 1 unit = 2 semesters (year-long course)

World History (H4005):

Grade Level: 10-12

Prerequisite: American Government

Surveys the course of world events from the 1400's to the present day. The course deals with the facts of history and cultural aspects, especially those that caused European nations to act and react to events.

Credit: 1 unit = 2 semesters (year-long course)

World Geography (H4002):

Grade Level: 10-12

Prerequisite: American History

Study the physical geography of the world, its effects on the human population, and the use of and alteration of our living environment.

Credit: 1/2 unit = 1 semester (half-year course)

Current Events (H):

Grade Level: 10-12

This course will be a study of many issues that confront us every day. The history behind many issues will be included and will lead to a better understanding of the issues as they present themselves today. Students taking this course will practice identifying information, analyzing opposing views, forming opinions, and expressing themselves clearly. Students taking this course will be expected to participate in class activities, group projects and presentations. Students will learn the basics of journalism while producing a bi-weekly school newspaper. Besides working on writing skills for features and news stories, students will also learn about photography, design, how to sell advertising and the importance of meeting deadlines.

Credit: 1 unit = 2 semesters (year-long course)

Psychology (H4020):

Grade Level: 11-12

Prerequisite: None

A study of major trends in psychology which requires in-depth interest and work of the student. Brain functions, psychological influences, and characteristics of mental illness are discussed.

Credit: 1 unit = 2 semesters (year-long course)

Sociology (H):

Grade Level: 11-12

Prerequisite: None

Sociology is the systematic study of social behavior and human groups. It focuses primarily on the influence of social relationships on people's attitudes and behavior and on how societies are established

and changed.

Credit: 1 unit = 2 semesters (year-long course)

Dual Credit U.S. History From 1877: (H9710)

Grade Level: 11-12

Prerequisite:

This is a general survey of United States history from 1877 to the present; it guides students through industrialization, World Wars I and II, the civil rights movement, and more. This is the second course in a two-part United States History series

Credit: 1/2 unit = 1 semester (half-year course)

Dual Credit U.S. History to 1877: (H9709)

Grade Level: 11-12

Prerequisite:

This course is a survey of United States history from the earliest European settlements in North America through the end of Reconstruction and emphasizes our nation's political, economic, and social development, the evolution of its institutions, and the causes and consequences of its principal wars.

Credit: 1/2 unit = 1 semester (half-year course)

FOREIGN LANGUAGE

The following courses count as elective credits

NOTE: Holden High School DOES NOT require a Foreign Language credit to graduate. However, students planning to attend any University of Missouri System school are required to take two years of a foreign language.

Introduction to Spanish (H):

Grade Level: 9-12

Prerequisite: C average in previous English course.

This course will provide students with an opportunity to receive a basic foundation in Spanish language as well as many cultural aspects of the Spanish-speaking world. Students will learn the alphabet, basic instructions, numbers, colors, clothing items, and writing the date. Students will explore cultural concepts such as holidays, traditions, and basic geography of the Spanish-speaking world.

NOTE: This class does not count as a language credit for college and can not be taken concurrently with Spanish I, II, III, or IV.

Credit: 1/2 unit = 1 semester (half-year course)

Spanish I: (H5020)

Grade Level: 9-12

Prerequisite: C average in previous English course.

This course will introduce students to basic vocabulary and grammar, basic communication with learned phrases, and simple questions and answers in Spanish. Students will acquire an understanding of the customs and traditions of the Spanish-speaking world.

Credit: 1 unit = 2 semesters (year-long course)

Spanish II (H0720):**Grade Level: 10-12****Prerequisite: Spanish I**

This course is a continuation of Spanish I, emphasizing the ability to narrate events in the past. Students will increase and improve their reading, writing, listening, and speaking skills in Spanish. Students will continue to acquire an understanding of Hispanic culture and customs.

Credit: 1 unit = 2 semesters (year-long course)

Advanced Spanish (H0731):**Grade Level: 11-12****Prerequisite: Spanish II**

This is a continuation of Spanish II, this course surveys all basic tenses and grammatical structures necessary for understanding of the Spanish language; students will continue to build vocabulary. Upon completion of the course, students will not only be able to communicate basic ideas and elaborate on them but should also be able to communicate adequately if traveling in a Spanish speaking country.

Credit: 1 unit = 2 semesters (year-long course)

HEALTH & PHYSICAL EDUCATION

The following courses count as PE or elective credits.

NOTE: Students may only take one PE course per semester unless they are in 12th grade.

Health: (H6050)**Graduation Requirement****Grade Level: 9**

This health course is designed to meet the needs of the high school student in the areas of mental, emotional and physical well-being and safety. This course includes an emphasis on healthy lifestyles and prevention of substance abuse, at-risk sexual behavior, STDS, AIDS, communicable diseases and pregnancy. Other topics include: decision-making, relationships, bullying, injury prevention, body systems, nutrition, fitness and wellness. Students will receive their CPR graduation requirement within this course.

Credit: 1/2 unit = 1 semester (half-year course)

Lifetime Sports/ Freshmen P.E.: (H8027)**Grade Level: 9-12**

Through co-ed team sports students will have the opportunity to learn and develop responsibility, leadership, cooperation, competitiveness, sportsmanship, and proper hygiene and hopefully instill an appreciation for and a desire to exercise and have fun. Activities include: physical fitness testing, basketball, volleyball, softball, soccer, team handball, floor hockey, and flag football. Students must dress appropriately, participate in a positive manner, and complete written and skills tests.

Credit: 1 unit = 2 semesters (year-long course)

Advanced Fitness: (H8160)**Grade Level: 9-12**

This co-ed course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio-respiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, CrossFit training, and overall fitness training and conditioning.

Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.
Credit: 1 unit = 2 semesters (year-long course)

FINE ARTS

The following courses count as fine art or elective credits.

\$-Several of the Fine Art classes have a required fee that must be paid by the end of the first semester. Please be aware of these fees when signing up for a class. Also be aware that most art classes are year-long courses and students will NOT be allowed to transfer in at second semester without prior permission from the administration and teacher.

Art and Design: (H7034)

Grade Level: 9-12

Prerequisite: None

This is a foundation program that includes, but not limited to; drawing, sculpture, contemporary design, painting, and art history. Materials are supplied for the projects, which the student will be allowed to utilize inside the classroom. Student fees go towards supplies specific for this course. Skill level and quality of completed artwork will be stressed throughout the year. Every project has certain guidelines that must be followed to receive full credit.

Credit: 1 unit = 2 semesters (year-long course)

Painting: (H7045)

Grade Level: 9-12

Prerequisite: None

Painting is a one or two semester course designed to acquaint the student with basic composition principles through theory and practice of painting from still life, nature, portraiture, figure and the imagination. It is a foundation program with emphasis on realism and various approaches to the paint medium. The course stresses personal experimentation in a variety of paint media and blending and shading with paint with an emphasis on drawing skills. Every project has certain guidelines that must be followed to receive full credit.

Credit: 1/2 (one semester) or 1 unit (2 semesters)

Drawing: (H7060)

Grade Level: 9-12

Prerequisite: none

Drawing is a full year course designed to acquaint the student with basic composition principles through the practice of drawing from objects, still life, nature, and the imagination. This course stresses experimentation in a variety of black and white drawing mediums and shading techniques. The addition of color may be included in some of the projects. Every project has certain guidelines that must be followed to receive full credit.

Credit: 1 unit = 2 semesters (year-long course—students will not be accepted at 2nd semester)

Ceramics: (H7050)

Grade Level: 9-12

Prerequisite: none

Ceramics is a full year course with emphasis on the creative aspects of using hand-built methods with

moist clay. Step by step procedures in the processes of coiling, molding, slab work, tiles, as well as an introduction to some basic finishing techniques. Every project has certain guidelines that must be followed to receive full credit.

Credit: 1 unit = 2 semesters (year-long course—students will not be accepted at 2nd semester)

Advanced Art: (H7041)

Grade Level: 10-12

Prerequisite: 80% or better from any art class.

This is a full year course in which students will experiment with subject choices, materials, and media. Advanced Art encompasses Advanced Drawing, Advanced painting, and Advanced Ceramics. And Sculpture. Students will design and complete complex projects in paint, found objects, clay, and drawing in various mediums. The projects will incorporate designs ranging from realism to abstraction and may include figure/portraits, nature, and imagination. Students must be able to work independently and follow directions/procedures. Skill level and quality of completed work will be stressed throughout the year. Every project has certain guidelines that must be followed to receive full credit.

Credit: 1 unit = 2 semesters (year-long course- students will not be accepted at 2nd semester).

Music:

Marching and Concert Band: (H7005)

Grade Level: 9-12

Prerequisite: Membership by audition. Previous experience and/or permission of the director is required.

Marching Band: Marching Band is the fall activity of the high school band program. Members will practice marching techniques and music to be used in performances at home football games, parades, and contests around the state. Attendance at all performances is required. Members will be expected to attend rehearsals outside of regular class time. **Performance and rehearsal attendance will be a required part of each member's grade for the class.**

Concert Band: Concert Band begins in November following the completion of the Marching Season. Members will study music of different composers, music theory, music history, and performance techniques. The group will have several performances at home and participate in district and state festivals.

Attendance at all performances is a part of each member's grade. Each member will be given the opportunity to audition for District Honor Band, Conference Band, and to take a solo or ensemble to district and state music festivals.

Pep Band: Pep Band season runs concurrent with Concert Band. Rehearsals are during regular class time. Attendance at all pep band performances is required as a part of this course. The number of performances varies, but can generally be stated as every home Varsity Basketball game that is not a tournament, held during the week. **The Pep Band schedule will be released in a timely fashion each season, and all performances will be required.**

Marching Band, Concert Band, and Pep Band are one continuous, year-long course. Extra rehearsals in the morning and/or after school are also required for this class and will also be

considered as part of each member's grade.

Credit 1 unit = 2 semesters (year-long course)

Jazz Band: (H7999)

Grade Level: 9-12

Prerequisite: Prior music experience with director approval OR current enrollment in band.

Members of the jazz band will study music, music theory, and history appropriate to the "Big Band" style, and Jazz and Contemporary music as available, for the instrumentation of this group. The class will also study the fundamentals of improvisation on their instrument and be given the opportunity to show what they have learned in performance situations. Members will have several opportunities to perform each semester at home and at music festivals in the state. **Attendance at all performances is a required part of the grade for the class.** Instruments used in the class are saxophones, trumpets, trombones, electric bass, electric guitar, piano, and percussion. Some of these instruments are available through the school; others may be rented from music dealers in the area. Concert Band students are encouraged to learn to play one of these instruments in order to participate in Jazz Band. **Previous experience is required, and specific permission from the director. Concurrent enrollment in High School Band is also required. All students must be enrolled in High School Band in order to participate in Jazz Band.**

Credit: 1 unit = 2 semesters (year-long course)

Drumline: (H7888)

Grade Level: 9-12

Prerequisite: Prior music experience with director approval OR current enrollment in band.

This course is designed for students who intend to be in the indoor drumline. This group performs at several marching band competitions in the fall; these events are required as part of students' grades. In addition, a high level of commitment, dedication, and passion is expected in this course. Rehearsals outside of class time may be called and required as needed to bring the group to a competition-ready level.

Credit: 1 unit = 2 semesters (year-long course)

Concert Choir: (H7010)

Grade Level: 9-12

Prerequisite: None

Audition-based intermediate level performance class open to students who have completed entrance audition or have director approval. Emphasis will be placed on developing more advanced musicianship and professionalism. A wide variety of advanced vocal and choral techniques will be explored in-depth. Culminating performances are a meaningful and mandatory component of this class. Participation in two concerts per semester plus other special programs is required. This course is offered to students with soprano, alto, tenor and bass voicings.

Credit: 1 unit = 2 semesters (year-long course)

Treble Choir: (H9861)

Grade Level: 9-12

Prerequisite: None

The High School Treble Choir: This is a non-audition ensemble, intended as an introductory choral class for treble voices. Students will learn rhythm, tone, pitch, and musicality. A wide variety of SSA literature will be explored, as well as developing healthful and tuneful singing. Culminating performances are a meaningful and mandatory component of this class. Participation in two concerts per semester plus other special

programs is required. This course is offered to students with soprano and alto voicings.

Credit: 1 unit = 2 semesters (year-long course)

Chamber Choir/Show Choir: (H7012)

Grade Level: 9-12

Prerequisite: Audition

Year-long audition-based intermediate to advanced level performance class open to students who have completed entrance audition. Emphasis will be placed on developing more advanced musicianship and professionalism. A wide variety of advanced SSA vocal and choral techniques will be explored in-depth. Culminating performances are a meaningful and mandatory component of this class. Participation in four concerts plus other special programs is required. Currently this course is offered to treble clef voicings only.

Credit: 1 unit = 2 semesters (year-long course)

BUSINESS, TECHNOLOGY, & MARKETING

The following courses count as practical art or elective credits

Computer Science I: (H)

Prerequisite: None

Grade Level: 9-12

Computer Science I introduces students to foundational computer science concepts through theoretical learning and hands-on projects. Topics include digital information representation, internet protocols, app design principles, and programming fundamentals like variables, conditionals, and functions. Students explore binary and hexadecimal numbering, web technologies, and basic app development, while also delving into programming constructs such as loops and conditional statements. The course emphasizes problem-solving skills, logical thinking, and collaborative teamwork through group projects. Assessment is based on projects, homework, quizzes, exams, and participation, with no formal prerequisites required. Computer Science I provides a solid foundation for further study in the field and fosters skills applicable to various disciplines and future career paths.

Credit: 1/2 unit = 1 semester (half-year course)

Computer Science II: (H)

Prerequisite: None

Grade Level: 10-12

Computer Science II delves into advanced concepts essential for aspiring computer scientists. Students master data analysis, list manipulation, and traversal techniques, while also honing skills in parameters, return values, and library utilization. The course emphasizes cybersecurity principles and global impacts, exploring real-world breaches and ethical computing practices. Additionally, students delve into algorithm design, analysis, and optimization, tackling complex problems with various strategies. Through hands-on projects and critical analysis, students gain a comprehensive understanding of advanced programming concepts. By course completion, students are equipped to navigate the complexities of the digital landscape and contribute meaningfully to the global technological community.

Credit: 1/2 unit = 1 semester (half-year course)

Introduction to Graphic Design: (H)

Prerequisite: None

Grade Level: 9-12

This course equips students with essential skills in using industry-standard software for designing business publications. From flyers to brochures and newsletters, students will craft professional-grade materials. Students will learn design principles and typography techniques. Perfect for aspiring entrepreneurs or marketers, this course unlocks the power of visual storytelling.

Credit: 1/2 unit = 1 semester (half-year course)

Introduction to Business: (H6006)

Prerequisite: None

Grade Level: 9-12

Step into the dynamic world of business with this captivating course designed to ignite curiosity and empower understanding of modern society's economic heartbeat. Delve into fundamental pillars like accounting, management, and marketing while exploring consumer issues in money management, banking systems, and the government's role. Gain insights into the relationship between technology and business innovation, preparing to thrive in a world of constant change.

This course isn't just a stepping stone; it's the cornerstone of future business success.

Credit: 1/2 unit = 1 semester (half-year course)

Entrepreneurship: (H6015)

Prerequisites: Introduction to Business or Introduction to Graphic Design

Grade Level: 11-12

Embark on a dynamic journey into Entrepreneurship, where you'll explore small business operations and essential management skills. Dive deep into key areas such as marketing, management, business communication, accounting, and economics, as you lead a team for our student-run apparel store. Craft your small business plan, conduct research, and make projections to bring your ideas to life. Learn about the legal aspects of business, including licensing, permits, insurance, and tax obligations. Gain practical insights and hands-on experience to thrive in the competitive business landscape. This course offers a transformative experience, empowering you to become a future business leader. Enroll today and unlock your potential to innovate, grow, and succeed in the world of entrepreneurship.

Credit: 1 unit = 2 semesters (year-long course)

Business Communication:(H) Prerequisites: Intro to Business OR Intro to Graphic Design

Grade Level: 10-12

Dive into the exciting world of business and communication with a modern twist! This course is designed to fortify your foundational language skills while preparing you for the dynamic demands of today's digital workplaces. Throughout the semester, you'll sharpen your composition, grammar, spelling, and punctuation skills—all essential for effective written

communication. We'll also guide you through the art of crafting compelling documents, from professional emails to polished reports, using the latest technology tools. But we won't stop at the written word! With a focus on oral communication, you'll learn how to leverage presentation software and telecommunications to deliver captivating speeches, give clear instructions, ace interviews, and create impactful reports.

Credit: 1 unit = 2 semesters (year-long course)

Business Law: (H)

(offered in odd-numbered years)

Prerequisite: Introduction to Business or Intro to Graphic Design

In this class, we're diving into the nitty-gritty of how the law shapes our world. We'll discuss things like what it means to own property, how contracts work, what rights you have as an employee, and even what happens in landlord-tenant disputes. We'll also tackle topics like individual rights, wills and estates, family law, and even community property.

Credit: 1/2 unit = 1 semester (half-year course)

Emerging Business Issues: (H6081) (runs concurrently with the Work Release Program)

Prerequisites: Introduction to Business, Business Communications and Entrepreneurship

We'll dive into the essentials you need to shine in any workplace. From mastering computer apps to understanding what makes administrative support pros tick, we've got you covered! You'll learn how to use tech to enhance your communication skills, ace office procedures, and create top-notch work with advanced software features. Plus, we'll help you craft impressive portfolios and job documents to ace those interviews! We'll tackle those soft skills employers love, like handling people, rocking phone calls, staying organized, and tackling important tasks.

Credit: 1/2 unit = 1 semester (half-year course)

Personal Finance: (H6025)

Graduation Requirement

Prerequisites: None

Grade Level: 11 & 12

In this introductory finance course, students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money.

FAMILY & CONSUMER SCIENCES

The following courses count as practical art or elective credits

Career and Family Leadership Skills: (H6060)

Grade Level: 9-12

Prerequisite: None

Course Fee: \$40.00 fee to cover sewing projects and cooking labs

Instructional course with a semester long focus on career readiness, financial insight, and basic life skill application. Topics such as personal choices, relationship roles, nutrition and wellness, and creative projects are also focused upon. Employed teaching strategies include lecture, group discussion and collaboration, portfolio construction, and individual projects. Emphasis is placed on individual decision making practices and application of employability traits.

Credit: 1 unit = 2 semesters (year-long course)

Foods I: (H6067)

Grade Level: 10-12

Prerequisite: Career and Family Leadership (C or higher) Course Fee: \$40.00 to cover food labs

Foods I is a semester course that provides an opportunity for students to develop basic food preparation skills. Classroom and lab work experiences emphasize nutrition and consumer skills as students examine preparation principles and techniques of a variety of foods. Students are encouraged to register for **Foods II** as well. A lab fee will be assessed for this course.

Credit: 1/2 unit = 1 semester (half-year course)

Foods II: (H6068)

Grade Level: 10-12

Prerequisite: Career and Family Leadership (C or higher) and Foods I Course Fee: \$40.00 to cover food labs

Foods II is a semester course designed to reinforce and further enhance skills developed in **Foods I**. Students will study advanced preparation techniques and culinary skills. An understanding of the chemical changes that take place during food preparation will be enhanced through classroom demonstrations and lab experiences. This course will also provide students with the opportunity to understand cultural aspects of personal family traditions related to food. A lab fee will be assessed for this course.

Credit: 1/2 unit = 1 semester (half-year course)

Creative Foods: (H6069)

Grade Level: 11-12

Prerequisite: Career and Family Leadership, Foods I and Foods II (C or higher for all classes) Course Fee: \$60.00 to cover food labs

An applied product based course in which students will utilize previously acquired knowledge of food principles and preparation in the exploration of challenging new concepts. Emphasis in International and specialty cuisine is placed on discovering and implementation of worldwide food preparation and specialty items. This course will also prepare students for continued education or employment in the food service industry. A lab fee will be assessed for this course.

Credit: 1/2 unit = 1 semester (half-year course)

Child Development: (H6055)

Grade Level: 11-12

Prerequisite: Career and Family Leadership

This class introduces the topics of human development and theology focused on prenatal through infant development and the responsibility of proper adult/child interaction. Class discussion, lecture, notes, research activities, and guest speakers lead to an enriched learning experience that helps students better understand children and themselves. This course includes the physical, social, emotional and intellectual development of a child from one to school age. Additional study explores health and safety, effective parent/teaching partnerships, common problems of childhood discipline, and the development and implementation of early childhood curriculum. Career opportunities in the area of child development and related fields will be introduced and explored through project based assessments.

Credit: 1 unit = 2 semesters (year-long course)

Fashion Design & Construction:(H6064)

Grade Level: 11-12

Prerequisite: Career and Family Leadership

Course Fee: A specified supply list will be given on the first day of class.

Fashion and Design intends to allow students to explore the many different aspects of clothing including, historical influence, production and merchandising, clothing modification, color analysis and wardrobe

planning. Students can expect to practice and apply basic to advanced sewing techniques.

Credit: 1/2 unit = 1 semester (half-year course)

Housing and Interiors: (H)

Grade Level: 9-12

This project-oriented course is designed to teach the aesthetics of architectural styles, analysis of housing selection, floor plans, home furnishing and furniture arrangement. The application of the elements and principles of design will be emphasized. Career opportunities in the housing and interior design fields will be introduced.

Credit: 1/2 unit = 1 semester (half-year course)

AGRICULTURE

The following courses count as practical art or elective credits

Agriculture Science I: (H6031)

Grade Level: 9-12

Prerequisite - None

A course designed for instruction in animal science, agricultural mechanics, career exploration, leadership and personal development, and supervised agricultural experience. Units may include agribusiness, natural resources, and food science. Students will be required to have a Supervised Agricultural Experience and record keeping.

Credit: 1 unit = 2 semesters (year-long course)

Agriculture Science II: (H)

Grade Level: 10-12

Prerequisite - Agriculture Science I (C or better each semester or case by case)

A course designed for instruction in plant and crop science, soils, entomology, horticulture, and forestry, as well as additional instruction in agricultural mechanics, career development, and leadership. Students will be required to have a Supervised Agricultural Experience and record keeping.

Credit: 1 unit = 2 semesters (year-long course)

Agriculture Business and Communication: (H6021)

Grade Level: 11-12

Prerequisite -Agriculture Science II (C or better each semester)

This course combines economic principles of business with sales, management, and service skills. Sales units will include human relations, personal inventory, careers, sales presentations, customer relations, marketing, purchasing, and transportation. Agricultural issues that affect us locally and nationally will be discussed. We will focus on individual forms of communication and utilizing it for a positive influence on the agricultural industry. A continued Supervised Agricultural Experience and record book keeping is required

in this course.

Credit: 1/2 (one semester) :Offered only in the Fall

Agriculture Construction:(H6042)

Grade Level: 12

Prerequisites: Agriculture Science II and Introduction to Mechanics (C or better each semester)

This course utilizes welding in the development and construction of major metal and wood projects.

Production of a wood project and continued supervised agricultural experience is included in this course. A continued Supervised Agricultural Experience and Record Book keeping is required in this course.

Credit: 1 unit = 2 semesters (year-long course)

Agriculture Power :(H6041)

Grade Level: 11-12

Prerequisite: Agriculture Science II (C or better each semester)

This course develops skills in maintenance, repair, adjustment, and overhaul of small engines. Included is a study of the basic principles of power transmissions, hydraulic systems, and larger engines. Safety practices and maintenance will receive major emphasis. A continued Supervised Agricultural Experience and Record Book keeping is required in this course.

Credit: 1/2 (one semester):Offered only in the Spring

Agriculture Structures:(H6047)

Grade Level: 11-12

Prerequisite: Agriculture Science II (C or better each semester)

This course includes electrical wiring, electrical motors, concrete masonry, plumbing and sewage disposal, farm fences, product handling and processing equipment, and farm buildings. A continued Supervised Agricultural Experience and Record Book keeping is required in this course.

Credit: 1/2 (one semester) : Offered only in the Fall

Animal Science:(H6046)

Grade Level: 11-12

Prerequisite: Agriculture Science II (C or better each semester)

This course is an advanced study in animal production, management, marketing, nutrition, breeding, production records, selection and judging, animal health, waste management, biotechnology, and veterinary science may be included in the course. A continued Supervised Agricultural Experience and Record Book keeping is required in this course.

Credit: 1 unit = 2 semesters (year-long course)

Greenhouse Operation and Management:(H6039)

Grade Level: 11-12

Prerequisite: Agriculture Science II (C or better each semester)

This course develops a basic understanding of greenhouse techniques. The production of greenhouse crops will be used to demonstrate procedures such as plants started from cuttings, seeds, grafts, and layering. Students will manage their own crop as a greenhouse project. A continued Supervised

Agricultural Experience and record book keeping is required in this course.

Credit: 1/2 (one semester): Offered only in the Spring

Agricultural Conservation: (H6095)

Grade Level: 11th & 12th

Prerequisite: Agriculture Science 2 (C or better each semester)

Students will explore and investigate the hydrologic cycle, waste management, soil and water conservation, natural resources conservation, fish and wildlife legislation, value of fish and wildlife resources, and government conservation assistance available to landowners, predator management. A continued Supervised Agricultural Experience and Record Book keeping is required in this course.

Credit: 1/2 (one semester): Offered only in the Fall

Introduction to Mechanics (H6032):

Grade Level: 11-12

Prerequisite: Agriculture Science II (C or better each semester)

This course is designed to cover a variety of topics such as Arc welding, MIG welding, oxy-acetylene, plasma cutting, and wood working techniques. Students will learn how to use basic shop equipment such as welders, hand tools and power tools. A continued Supervised Agricultural Experience and Record Book keeping is required in this course.

Credit: 1 unit = 2 semesters (year-long course)

INDUSTRIAL TECHNOLOGY

The following courses count as practical art or elective credits

Essentials of Engineering (H9000):

Grade Level: 9-12

Prerequisite: Algebra or 8th grade math with a “B” or better or instructor approval

The course introduces students to engineering concepts that are applicable across multiple engineering disciplines and empowers them to build technical skills through the use of a variety of engineering tools, such as geographic information systems (GIS), 3-D solid modeling software, and prototyping equipment. Students learn and apply the engineering design process to develop mechanical, electronic, process, and logistical solutions to relevant problems across a variety of industry sectors, including health care, public service, and product development and manufacturing.

Credit: 1 unit = 2 semesters (year-long course)

Introduction to Engineering (H9001):

Grade Level: 10 - 12

Prerequisite: Essentials of Engineering or instructor approval

This course is a “high-school-level foundation course in the Project Lead the Way (PLTW) Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems—an engineering design process. Using the activity-, project-, and problem-based (APB) teaching and learning pedagogy, students progress from completing structured

activities to solving open-ended projects and problems, which require them to develop planning, documentation, communication, and other professional skills.

“Students develop skills in technical representation and documentation of design solutions according to accepted technical standards, and they use current 3-D design and modeling software to represent and communicate solutions.”

Credit: 1 unit = 2 semesters (year-long course)

Principle of Engineering (H9003):

Grade Level: 10 - 12

Prerequisite: Introduction to Engineering or instructor approval for freshman students

Principle of Engineering (POE) is a foundation course of the high school engineering pathway. This course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, energy and power, and kinematics and then they apply what they know to take on challenges like designing a self-powered car.

The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students have the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APB) learning.

Credit: 1 unit = 2 semesters (year-long course)

OTHER

The following courses count as practical art or elective credits unless noted

A+ Tutoring (H9603):

Grade Level: 12

Prerequisite: 2.5 GPA minimum, 95% cumulative attendance, signed A+ agreement, in good standing with regards to A+ citizenship guidelines, and have attended an A+ certified school for three consecutive school years prior to graduation.

This course allows students to complete their tutoring requirements for the A+ Program. Tutoring must be completed in a core academic subject area at an Holden School, supervised by a district employee, and approved by the A+ Coordinator.

Mentoring (H9603):

Grade Level: 11-12

Prerequisite: 2.5 GPA, 95% attendance and meet the good citizenship requirements of the A+ program, as well as approval by administration

No major discipline issues Application completed by deadline

This course gives the students the opportunity to meet the 50 hours needed to fulfill the requirements of the A+ program. This class is not limited to A+ students, but the prerequisites listed above will be followed.

Students will be **required** to attend training sessions and then will be assigned to a supervising teacher at one of the district's schools. An application and 1 page paper must be completed. This is a pass/fail class.

College Release (H): (1-3 credits per year)

Grade Level:12

This Pass/Fail option is available for 12th grade students taking more than one college level course in a semester. Students enrolled for 6-8 college hours in one semester may receive up to 1 hours of college release credit; students enrolled in 9-11 college hours in one semester may receive up to 2 hours of college release credit, students enrolled in 12+ hours of college credits in one semester may receive up to 3 hours of college release credit. It is the full responsibility of the student to choose and apply to the college, enroll in classes, and to provide a copy of their grade card in order to receive credit. If the student withdraws or fails the college course, no credit will be given and an "F" will be placed on the student's transcript for the course taken.

Supervised Business Experience (H6085):

Grade Level: 12 (1-2 credits per year)

Prerequisite: Application

This Pass/Fail option is available for 12th grade students to earn credits towards graduation while being employed. Students who work 10+ hours/week can have 1 class period of work release; students who work 20+ hours/week can have up to 2 class periods of work release; Students must submit an application with proof of employment to be approved. Monthly submission of paystubs is required to verify employment hours. If a student fails to submit pay stubs for the required number of hours, they will receive a failing grade.

Introduction to Teaching (H9795): (Fall)

Grade Level: 9-12

Prerequisites: None

Course Description: Introduction to the Teaching Profession is an overview of the teaching profession with emphasis on instructional planning, assessment, collaboration with stakeholders, creating a productive classroom environment and understanding the social and cultural factors that influence the profession. Dual credit through UCM is **optional**.

Curriculum through University of Central Missouri taught at HHS in the classroom setting:

Credit: 1/2 unit = 1 semester (half-year course)

3 units of college credit

Introduction to Field Experience (H9796):(Spring)

Grade Level: 9-12

Prerequisites: Introduction to Teaching

Course Description: Introductory experiences in the classroom that provide opportunities for becoming involved with students and professional teachers in the school setting. The course includes 30 hours of public-school classroom observation. Students must have a background check on file. There is a fee for the background check. This is a professional education course. Dual credit through UCM is **optional**.

Curriculum through University of Central Missouri taught at HHS in the classroom setting:

Credit: 1/2 unit = 1 semester (half-year course)

3 units of college credit

Yearbook:(H6020)

Grade Level: 10-12

Prerequisite: "C" average in English and teacher's approval

Class Limit: 15

A lab course in which the school's yearbook is produced. Students need strong writing, design, communication, and organizational skills. A strong work ethic is a must. Yearbooks is a business; therefore, professionalism is required. This course requires work responsibilities beyond the school day in the form of photography assignments, spread design, interviews, and meeting deadlines. As much of the yearbook is composed on the computer, a working knowledge of word processing and desktop publishing is helpful. To join Yearbook, students must submit an application. Students will be chosen based on quality of application, attendance, and other factors impacting their success in covering events for school publications. An interview with the Yearbook teacher may be required. The applicant must have a C average in all English classes, and students with any failing grades in English classes will not be accepted.

Credit: 1 unit = 2 semesters (year-long course)

WARRENSBURG AREA CAREER CENTER, WACC (WARRENSBURG, MO)

The following courses count as practical art and elective credits unless noted

Students must complete an application process sent into WACC. Selection of students will be based on attendance, grades, personal conduct, and career goals. All vocational programs are two years in length. After the completion of any two year program, students will receive one Language Arts credit and one Math credit. These credits may not be used to replace any required credits from grades 9-11. Students must also meet minimum credit requirements to be accepted or to maintain their slot in the program. Credits will be reviewed every semester by administration and counselors.

Auto Collision Technology

2 year program

Grade Level: 11-12

Prerequisite: Must have earned 13 credits toward graduation and permission of the principal and the counselor, G.P.A. should be 2.0 or better, 90% attendance. Math recommended. Students will learn to examine, estimate, and repair damaged automobile and truck bodies. Second-year students will spend time on the Blackhawk Bench System which will allow the students to work on uni-body frames which are used in late model cars.

Auto Service Technology

2 year program

Grade Level: 11-12

Prerequisite: Must have earned 13 credits toward graduation and permission of Principal and Counselor, G.P.A. should be 2.0 or better, 90% attendance. General science is recommended.

This course includes an introduction to automobile engine and chassis design, fuel systems, engine

lubrication, automotive electricity, clutch, brake, transmission, and wheel suspension systems. Second-year students will expand the skills and fundamentals learned in Auto Mechanics I.

Construction Technology

2 year program

Grade Level: 11-12

Prerequisite: Must have earned 13 credits toward graduation and permission of the principal and the counselor, G.P.A. should be 2.0 or better, 90% attendance.

This program is designed for students who want to work in the building trade field upon graduation from high school. Students receive training in rough framing, finishing work, drywall application, concrete finishing, painting, ceramic tile, plumbing, and electrical wiring. Second-year students will further develop the skills and knowledge obtained during Construction Technology.

Computer Repair and Networking

2 year program

Grade Level: 11-12

Prerequisite: Must have earned 13 credits toward graduation and permission of the principal and the counselor. G.P.A. should be 2.0 or better, 90% attendance. Algebra I and Keyboarding are recommended.

Students work with peers and mentors from industry to design, build, and maintain Local and Wide Area Networks and to provide computer training and support for staff and students. Students may be asked to travel off campus to other schools to perform computer support services during and after regular class hours.

Health Sciences I & II

1 or 2 year program

Grade Level: 11-12

Fee: \$50.00 for drug screening

Prerequisite: Must have earned 13 credits toward graduation and permission of the principal and the counselor. G.P.A. should be 2.0 or better and 90% attendance. Recommended that students take necessary classes for college entrance if they are planning on college after graduation.

First semester is spent in the classroom and laboratory where students develop fundamental concepts of anatomy and physiology, medical terminology, personal health and hygiene, and pre-employment skills. Second semester students rotate through health care sites determined by their interest inventory and work with health care professionals in area clinical facilities.

SUMMIT TECHNOLOGY ACADEMY (LEE'S SUMMIT, MO)

The following courses count as practical art and elective credits unless noted

Each school within the Summit Technology Academy District is allotted slots based on student enrollment. Selection of students will be based on application, attendance (95% or higher), grades (3.0 GPA or higher),

personal conduct, and career goals. Many of the courses below offer dual credit opportunities. Missouri Innovation Campus (MIC) program is a progressive initiative by the University of Central Missouri, Metropolitan Community Colleges, as well as numerous business partners such as Cerner Corporation, DST, Burns & McDonnell, and Black & Veatch. Some of the programs within STA have an option to pursue a baccalaureate degree and include industry immersion with local businesses that are in need of developing a skilled workforce. MIC students must meet appropriate Accuplacer or ACT scores. Eligible MIC programs include: Software Development, Design & Drafting, Bioinformatics, Systems Engineering/Networking, & Cyber Security. For more information visit, <http://ucmo.edu/mic> or ask your school counselor.

Digital Electronics: Grades 11-12 (1.5 credits-meets one semester)

Weighted Course

Prerequisite: Engineering recommended. This fast-paced, college level course in applied logic gives students the opportunity to learn how computers/logic circuits think and control the world around us. Students will use applied math to understand the logic behind the circuits, as well as computer simulation software to design and test digital circuitry prior to the actual construction of the circuits. Students will have the opportunity to learn everything from basic electronic circuit design, logic circuit design, all the way up to and including programming and interfacing with microcontrollers, which includes robot applications. Students can expect to use the engineering design process to think critically and independently solve open-ended problems.

Computer Integrated Manufacturing: Grades 11-12 (1.5 credits-one semester)

Weighted Course

This exciting course provides students with the fundamentals of computerized manufacturing technology in a global perspective. Students will have individual and team projects in the following areas of manufacturing: Computer Modeling-using a three dimensional, solid modeling software package with mass property analysis and design interface tools. CNC Equipment – understanding the machinery and tools and their operating and programming aspects. CAM Software – converting computer generated geometry into a program to drive CNC machine tools. Robotics- robotic arm programming and how they are used for materials handling and assembly operations. Flexible Manufacturing Systems – working in teams to design manufacturing work cells and table top factory simulations. The students will interact with industry experts and should expect to be challenged with ideation and creation of projects while working within a set of constraints.

Aerospace Engineering: Grades 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: B average in Algebra II. This course provides students with the fundamental knowledge and experience to apply mathematical, scientific, and engineering principles to the design, development, and evolution of aircraft, space vehicles and their operating systems. In the classroom, students will engage in creative thinking and problem-solving activities using software that allows students to design, test, and evaluate a variety of air and space vehicles, their systems, and launching, guidance and control procedures. Students will build and test airfoils, gliders and model rockets, as well as fly a plane in a flight simulator program. Students can expect to work with and/or be mentored by professionals in the aviation/aerospace career field from around the Greater Kansas City metropolitan area.

Engineering Design & Development: Grade 12 (3 credits)

Weighted Course

Prerequisite: B average in Physics; Completion of Digital Electronics with C or better. During the fall semester, student design teams work on an open-ended problem in which they research, design, and construct a solution. Students apply principles developed in the four preceding PLTW courses, learn advanced physics and mathematical applications, and are guided by engineering mentors. Design teams must present progress reports, submit a final written report, and defend their solutions to a panel of Kansas City area engineering professionals at the end of the fall semester. The Spring semester is an Engineering Field Experience course in which students will be expected to travel two days per week to local firms such as The City of Lee's Summit Public Works (LSPW) Engineering Department and HDR-Archer. Students will learn the fundamental concepts of structures, and fluid mechanics, which will be applied directly to the projects for LSPW and HDR. Watch the video at the right in which students share their experience in this one of a kind class!

Aerospace Academy: Grade 12 (1.5 credits-one semester)

Weighted Course

Prerequisite: B- in Aerospace Engineering & Digital Electronics. The Aerospace Academy Capstone provides advanced level avionics/aviation/aerospace pathways. This program represents a collaboration between STA, the City of Lee's Summit, the Lee's Summit Economic Development Council, and the Lee's Summit Municipal Airport and includes potential lab opportunities for students at the airport. Students will learn cutting-edge curriculum developed by subject matter experts in aerospace/aviation including acquiring learning targets for the AET certification, career exploration for the seven aerospace workforce pathways, hands-on applied learning experiences at the Lee's Summit airport utilizing industry standard equipment, and a field experience within one or more of the seven aerospace pathways.

DevSecOps: Grades 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: B average in Algebra I and Computer Applications. Development, Security, and Operations (DevSecOps) is a deep dive into the foundations of network operations by using the lens of security to tie it all together. Hands-on and simulation-based activities in this course assist with implementing network operations with software development and cyber security concepts. Students will see how culture, automation, and platform design integrates security as a shared responsibility throughout the entire IT lifecycle. In this course, you will learn about the OSI Model and how that model allows IT to function across Software Development, CyberSecurity and Network Operations. Specifically, you will learn the principles and structure of IP addressing, LAN and WAN specifications, and network management. This course encompasses 1 additional college class (6 college credits) in order to prepare the student for the CompTIA IT Fundamentals+ Certification Exam. Learn information the tech industry needs for high-demand, high-wage tech careers. Students interested in the MIC CyberSecurity early bachelor degree program must enroll in this course and Advanced Network and Cyber Concepts.

Advanced Network & Cyber Concepts: Grades 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: B- or higher in DevSecOps Acquire a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design, implement, and secure enterprise and wide

area networks. This includes functionality, configuration, and troubleshooting of inter-VLAN routing, VLANs, WLANs as well as wide area networking technologies. This course encompasses 2 additional college classes (6 college credits) in order to prepare the student for the Cisco Certified Network Technician certification exam. Learn the skills and earn the credentials that are truly in demand! Students interested in the MIC CyberSecurity early

bachelor degree program must enroll in this course and DevSecOps.

Cyber Security: Grade 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: B- or higher in DevSecOps. This course will give students hands-on experience into network security protection, as well as an understanding of the types of attacks used against networks. The course will cover security policies such as risk management, data privacy, employee management, device management, network management, and business continuity. Students will also learn current technologies such as SSH, AAA, ACLs, IPS/IDS, PKI, and others. Students will develop an understanding of physical, perimeter, network, host, application and data defenses. This course covers the information required for the Cisco Network Security and CompTIA Security+ certification exams.

Cyber Operations: Grade 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: B- or higher in DevSecOps. Learn the skills to join this fast-growing field and take advantage of the opportunities found in security operation centers. Feel confident that you are helping make the world a safer place by pursuing a role in this field. In this course you will learn security concepts, security monitoring, host-based analysis, network intrusion analysis, and security policies procedures. This course also aligns with the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework to support consistent communication language for cybersecurity education, training, and workforce development.

Software Development-Python: Grade 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: B- or higher in Algebra II. Learn Python content currently taught in college curriculum and in industry. Topics include basic computer organization and systems, data representation, algorithms, selections, loops, functions, classes, objects, elementary programming, applications, strings and text I/O, inheritance, lists, dictionaries, scripting, and various Python libraries. Students interested in the MIC Computer Science: Software Development or Software Engineering early bachelor degree program must enroll in this course and Software Development-Java.

Software Development-Data & AI: Grade 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: Software Development-Python. Students will use the Python programming language to learn the basics of Data Analytics as well as give them hands-on experience working with database tools available. This course, designed with our advanced learners in mind, will continue their understanding and implementation of programming fundamentals and concepts acquired through previous programming courses. We will explore python libraries specific to the field of data manipulation. By the end of the semester, students will understand how Machine Learning fits into Artificial Intelligence and use different methods of Machine Learning including Neural Networks.

Software Development-Java: Grade 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: B- or higher in Algebra II. This course teaches essential concepts of computer programming in the structured programming paradigm using a modern high level programming language. Topics include foundational programming concepts, data types, variables, operators, selections, loops, methods, arrays, classes, objects, strings and text I/O, inheritance, polymorphism, interfaces, GUI basics, graphics, and event-driven programming. Students interested in the MIC Computer Science: Software Development or Software Engineering early bachelor degree program must enroll in this course and Software Development-Python.

Software Development-Applications: Grade 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: Software Development-Java. Explore the history of game design while learning and utilizing the phases in the game development cycle. Learn the process of the design and implementation of software applications, including games, from initial research and development to the end goal of implementation. Students will learn what they need to create a functioning application by the end of this course.

Allied Health Academy: Grade 11-12 (3 credit)

Weighted Course

Prerequisite: B average in Algebra I & Biology. Students will be engaged in hands-on skills lab work and projects related to Dentistry, Health Information Technology; Occupational Therapy, Paramedic/EMT, Physical Therapy/Physical Therapy Assistant, Radiology and Respiratory Care, Surgical Technology, Polysomnography, Chiropractic, Athletic Training, Laboratory, Pharmacology, and other allied health careers. This program allows shadowing opportunities in allied health career fields. In addition, students have opportunities to gain industry credentials such as Basic Life Saver CPR training and HIPAA credentials.

Medical Interventions: Grades 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: Chemistry & Biology. Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of the Smith family. Students conduct experiments while exploring how to prevent and fight infection, how to screen and evaluate the code in human DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Students are exposed to a wide range of interventions related to bacterial infections, surgery, genetic engineering, pharmacology, medical devices, and diagnostics. Students study real world medical problems through laboratory experiences.

Biomedical Innovation: Grades 11-12 (1.5 credits-one semester)

Weighted Course

Prerequisite: Medical Interventions. In this capstone course students design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They apply their prior knowledge and skills to solve problems related to Biomedical science. Students may work with a mentor or advisor from a university, hospital, or physician's office, as they complete an Independent Research Project of their

own choosing. Students present their Independent Research Project along with other BI students in the metropolitan area at GKSEF and Union Station. Scholarships are awarded to top winners. Other course topics include: problems in emergency medicine, forensic autopsy, human anatomy and physiology, molecular biology, epidemiology, and water quality. Students completing all 4 years of the PLTW Biomedical science program will receive a white coat.

Professional Nursing: Grade 12 (3 credits)

Weighted Course

Prerequisite: B average in Algebra I. Professional Nursing at STA is designed for seniors who are preparing for a college-level Bachelor's of Science in Nursing (BSN). Students will be introduced to what it means to be a Registered Nurse and focus on essential competencies for a successful transition into a BSN program. This year-long course will focus on concepts of medical language, medical math, the nursing process, nursing documentation, effective communication, and medical ethics. OSHA-10, AHA Basic Life Support-CPR, and AHA First Aid certifications are also included in this course. Students will have the opportunity to learn and practice clinical skills in classroom settings, through hands-on lab experiences, within simulation labs, throughout the community, and by participating in hospital shadowing.

Teacher Educator Academy: Grade 12 (3 credits)

Weighted Course

The Teacher Educator Academy is designed for students who are considering the elementary/secondary teaching profession or a career as a corporate educator. The course offers students the opportunity to put theory into action through classroom work and the practicum. Students will develop skills and professionalism needed to succeed as an educator as they work directly with students/adults in the practicum. Each student is assigned to a district school within the high school attendance boundaries or to a corporate education department. A blended instructional model of classroom and online learning is used to deliver instruction and to provide opportunities for students to develop their beliefs and philosophy of education. Students will participate in Educators Rising as part of the course requirements.

International Studies Academy: Grades 11-12 (3 credits)

Weighted Course

Prerequisite: 2 years of foreign language. This course is designed for students who are passionate about world cultures and languages who need help in taking those first steps towards working internationally or studying abroad. Students will acquire 84 skills considered essential to working and studying internationally, with specific attention given to intercultural communication, international language exploration, project management and collaboration, professionalism, technology, and research. Students will then apply those skills through our student-run cultural consulting firm, Global Prep Squad (GPS). GPS works with international partners on six continents providing professionally implemented international business tools and solutions which help guide our business clients through the challenges of working within a global context.

Business Finance & Fintech: Grades 11-12 (3 credits)

Weighted Course

Prerequisite: B average in Algebra. This dynamic program is for students interested in learning advanced concepts in finance and financial technology (FinTech) careers and would like to enter college finance

programs after graduation with a competitive advantage. Students will be immersed in problem-based and project based instruction that mirrors the current financial industry related to the following areas: Risk Management, Data Analysis (BIG DATA), Financial Technology (FinTech), Financial Modeling, Understanding Balance Sheets and P&L Statements, Economics, Communication Skills, Corporate Finance, Commercial Banking, Investment Management and Financial Advisory Insurance. This program allows internship and shadowing opportunities in financial career fields. Students will utilize the best of modern technology with a selection of online coursework, simulations and hands-on learning.

Digital Media Technology: Grades 11-12 (3 credits)

Weighted Course

Prerequisite: 2 fine arts or practical arts credit related to arts pathway. The Digital Media Technology program at Summit Technology Academy gives students an opportunity to explore and prepare for careers in arts, audio/video technology, and communications. Students will focus on the complete video and audio production workflow from pre-production through post-production. They will work in teams to integrate video, motion graphics, and sound in entrepreneurial and career experience-based projects for their schools and/or communities. Students have the opportunity to gain skills towards an industry-recognized certification in Final Cut Pro or Logic Pro.

Hospitality, Tourism, & Recreation Management: Grades 11-12 (3 credits)

Weighted Course

Prerequisite: B average in Algebra I. The curriculum for this class is industry-driven, therefore matching the needs of hospitality employers across the world. The course will focus on the options available in the Hospitality, Tourism and Recreation industries as well as preparing students to understand and prepare for management. Students will be able to achieve internship hours through on-site events at the Paradise Park with the go karts and batting cages, as well as outside experiences with business partners, based on student interest. Skills learned in this course are transferable to other opportunities related to the field and will put you on a path to a successful career.

Environmental Studies: Grades 11-12 (3 credits)

Weighted Course

In the fall, Missouri Wildlife Studies lets you learn about the world you live in. You will be able to build upon your successes in previous science courses and apply those concepts to a living environment working with wild species, including snakes, birds, fish and many other animals native to the region through direct investigations in nature. Learning about nature through chemistry, biology and statistics will allow you to view your world in new and exciting ways. In the spring, Environmental science students make sense of the science within Missouri ecosystems as they experience Missouri wildlife phenomenon, share questions about the phenomenon and try to answer a class-identified question about a phenomenon. Students use critical thinking skills to develop and monitor live plant life and native animals. This scientific inquiry course allows students to incorporate place-based learning, project-based learning, and problem based learning, with an emphasis on participation in community conservation leadership.

SPORTS, CLUBS, & ORGANIZATIONS

Co-curricular and extracurricular activities are an important part to a student's overall high school experience. Any student interested in participating in any activities should contact the coach or sponsor for further information.

Fall Sports	
Volleyball-, Emily Purnell, Head Coach	Cross Country -Scott Teufel Head Coach
Softball-Jeff Smith , Head Coach	Football-David Diener, Head Coach
Winter Sports	
Basketball (Girls)-Todd Shanks, Head Coach	Basketball (Boys)-Nathan Martin, Head Coach
Wrestling (Girls)- Ron Franklin, Head Coach	Wrestling (Boys)-Matt Hertzog, Head Coach
Spring Sports	
Track- David Diener, Head Coach	Baseball, Charlie Castle, Head Coach
Activities	
Cheerleading-Jenica Andes, Head Coach	Scholar Bowl- Megan Gipfert, Sponsor
Color Guard- Kristi Miller , Sponsor	Vocal Music-Sharon Doll, Director
Instrumental Music-Emilie Lewis, Director	Trapshooting-Jay Craven, Head Coach
Clubs & Organizations	
FFA-Audrey Stever, Sponsor	Drama Club-Sharon Doll, Sponsor
FBLA-Angie Smith, Sponsor	FTA -Valerie Craft, Sponsor
FCCLA- Tonya Mallinson, Sponsor	Student Council- Ashley Perman, Sponsor
Foreign Language Club- Michelle Landrum, Sponsor	National Honor Society- Miranda Langston, Sponsor
Art Club- Mark Weddle, Sponsor	