

MIAMI HIGH SCHOOL COURSE CATALOG

2024-2025



Dr. Daniel Johnson, Superintendent
Mr. Zech Blaine, Principal
660-267-3480

Miami R-1 High School Graduation Requirements

Subject	Credits Required for Miami Students	Credits Required for Miami Vo-Tech Students
Communication Arts	4	4
Social Studies	3	3
Mathematics	3	3
Science	3	3
Practical Arts	1	1
Fine Arts	1	1
Physical Education	1	1
Health Education	0.5	0.5
Personal Finance	0.5	0.5
Electives	9	7
Total credits required to graduate from Miami R-1	26	24

All students must satisfactorily complete:

- **American Civics Exam**
- **Missouri Constitution Exam**
- **U.S. Constitution Exam**
- **30 min CPR/First Aid Instruction**

Types of Courses Miami Offers

Traditional Seated Miami High School Courses

These are courses taught by Miami High School teachers in a Miami High School classroom setting.

Online College Dual Enrollment Courses

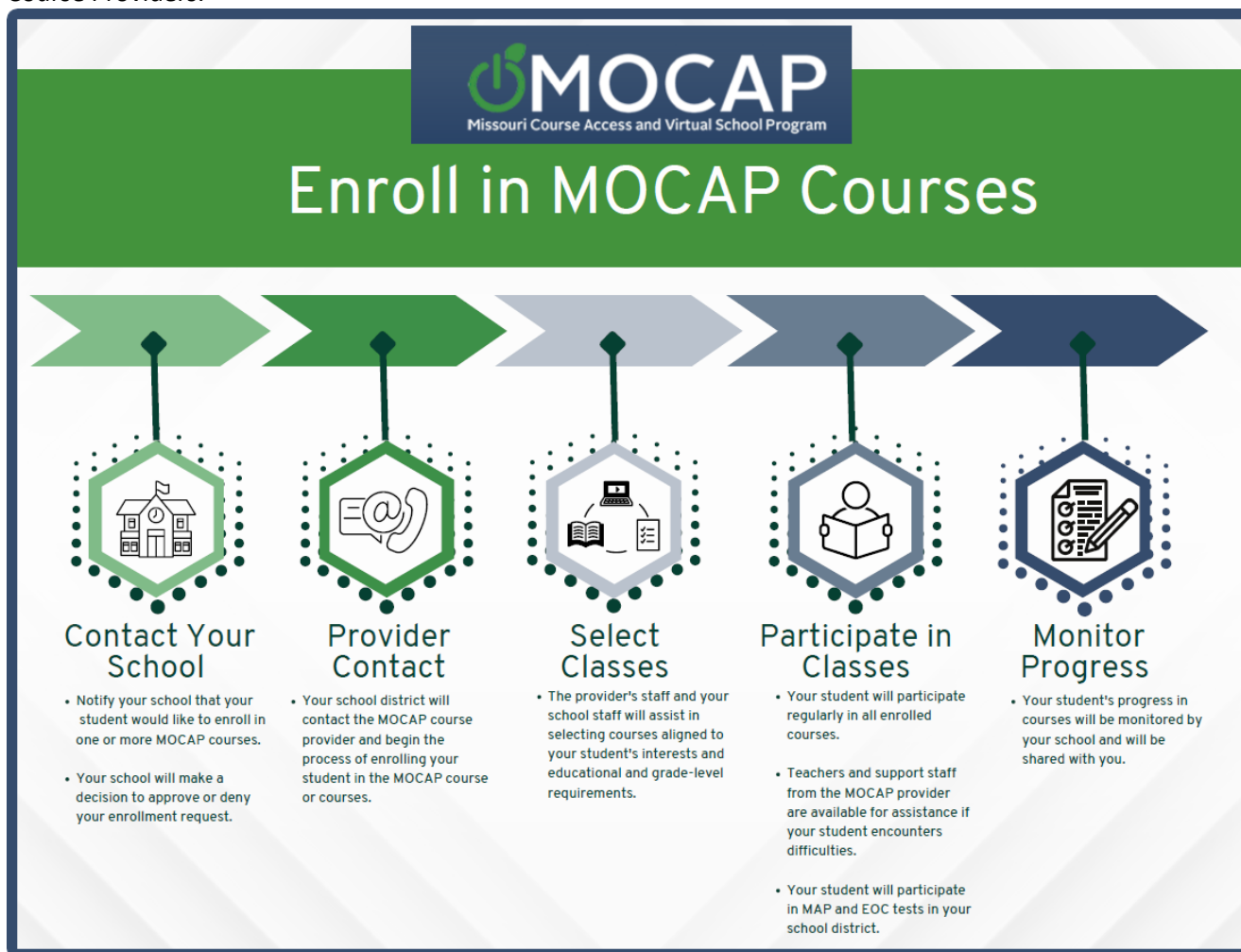
Miami R-1 allows juniors and seniors to take dual enrollment classes online if they meet eligibility guidelines and have administration and parental approval. Miami's preferred provider for online dual enrollment courses is Missouri Southern State University. The Miami School District is not required to provide high school credit for courses beyond the equivalent of full-time high school enrollment. **Online Dual Enrollment courses have fees (tuition and books) which are the responsibility of the student.** *Dual enrollment courses may be taken through other colleges at the discretion of Miami administration. **All enrollments for fall dual enrollment courses must be completed by August 15th and spring enrollments must be completed by December 15th. No enrollments will be accepted after these dates without administration approval.**

Missouri Course Access Program (MOCAP) Virtual Learning Courses

MOCAP provides Missouri students with equal access to a wide range of coursework, anywhere, anytime. MOCAP virtual online courses for students statewide. The Missouri Department of Elementary and Secondary Education (DESE) and the State Board of Education oversee administration and quality assurance activities such as related content and delivery of courses. Missouri certified teachers facilitate MOCAP courses. For more information, visit the MOCAP website (<https://mocap.mo.gov/about.html>).

Missouri Course Access Program (MOCAP) Virtual Learning Courses

Students and families who are interested in virtual coursework should contact Mrs. Johnson, jjohnson@miamik12.net, Virtual Learning Liaison, and inquire about the Missouri Course Access Program (MOCAP). Students can take an entire course from any internet-connected computer, available 24 hours a day and seven days a week. Miami R-1 School District's preferred provider is Launch. Missouri students can request to enroll in 1 to 6 online courses from MOCAP Course Providers.



The Miami School District will accept all grades and credits earned through district-sponsored virtual instruction through MOCAP. The district will pay the costs of a virtual course if the district has first approved the student's enrollment in the course as described in the policy. However, the district is not required to provide students access to or pay for courses beyond the equivalent of full-time high school enrollment. The district will provide supervision for students who take virtual courses in district facilities but will not provide supervision for students taking virtual courses offsite. Students taking courses virtually are subject to district policies, procedures, and rules applicable to students enrolled in traditional courses including, but not limited to, the district's discipline code and prohibitions on academic dishonesty, discrimination, harassment, bullying, and cyberbullying.

A student is not guaranteed to be in the class(es) of their choice until their enrollment with the virtual provider is finalized. All students taking a virtual course must have internet access outside of the school; the Miami R-1 School District does not provide access to the internet outside of school hours for students enrolled in online courses. Many of the courses will require time outside of school, so assignments are completed and submitted in a timely manner.

Required Courses for Graduation

English Language Arts-Language Arts I, II, III, IV

Science-Physical Science, Biology

Social Studies-American History, World History, Government

Math-Algebra I, Geometry

Health-Health

Personal Finance-Personal Finance

Note: All seniors must be enrolled in a minimum of two core classes (English, Science, Social Studies, Math) for both the first and second semester and meet passing requirements for both. Eight semesters of attendance are required by the Miami R-I School District to meet graduation standards.

Repeated Courses

Classes that **are not** labeled “may be repeated for credit” may **NOT** be repeated for credit unless the student has failed the class and repeats it for credit. If a student takes a class that may not be repeated a second time, credit will not be given. It is the student’s responsibility to know what classes they have taken and not to repeat those for which they already have received credit.

The course descriptions that follow represent a brief summary of each seated class Miami offers. The descriptions do not necessarily list all topics and/or activities associated with each class.

English Language Arts

REQUIRED CREDITS: 4

Language Arts I Grades: 9-12 Credit: 1.0

Students will study a variety of short stories, dramas, novels, poetry, mythology, non-fictions, and literary terminology. There will be work with the six-trait writing method with proper paragraph development emphasized. Content work with spelling and increased vocabulary will be done weekly. Basic grammar skills will be strongly enforced, including but not limited to parts of speech, sentence structure, and usage of mechanics. Outside reading is required.

Language Arts II Grades: 10-12 Credit: 1.0 *Prerequisites: Language Arts I*

Reading, writing, and effective communication skills will continue to be stressed and expanded. Foundations of proper composition will be studied including the five-paragraph essay. Narrative, expository, and technical writing will be emphasized. Continued grammar skills will be built and added to the student’s grammar foundation. Additionally, various genres will be read, studied, and discussed, including essays, fiction, and non-fiction, biographies, short stories, poetry, and novels. Reading comprehension, analysis, and literary terms will also be discussed. Outside reading is required.

Language Arts III Grades: 11-12 Credit: 1.0 *Prerequisites: Language Arts I, II*

This course is designed for both college and non-college bound students. Effective communication skills will continue to be developed and improved. American Literature will be the literary focus. More critical analysis and thinking will be stressed. Expository and persuasive writing will be studied in depth using the MLA style program. Vocabulary will continue to be developed and grammar will be emphasized, seeking a more advanced and detailed program. Outside reading is required. Oral Presentations will be a part of this class.

Language Arts IV Grades: 12 Credit: 1.0 *Prerequisites: Language Arts I, II, III*

This course will continue to expand the student’s knowledge of grammar, writing, vocabulary, and literature. English literature will be emphasized. This course will also provide a solid background for any student deciding to gain post-secondary education. Career research, resume preparation, research papers (MLA style), technical, expository, and persuasive writing projects are included. Oral presentations will be required.

Mathematics

REQUIRED CREDITS: 3

Algebra I **Grade: 9-12** **Credit: 1.0**

The purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The content of Algebra I is meant to deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students will also engage in methods for solving and using quadratic functions.

Geometry **Grade: 10-12** **Credit: 1**

The purpose of this course is to formalize and extend students' geometric experiences from previous courses. Students will explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. This course is divided into six critical areas of geometry that students will study: congruence, proofs and constructions, similarity, proof and trigonometry; extending to three dimensions; connecting algebra and geometry through coordinates; circles with and without coordinates; and applications of probability.

Algebra II **Grade: 11-12** **Credit: 1.0** *Prerequisites: Algebra I*

In this course, students will build on their work with linear, quadratic, and exponential functions. Students will extend their repertoire of functions to include polynomial, rational, and radical functions. Students will work closely with the expressions that define functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms.

Sports Statistics **Grade: 11-12** **Credit: 1.0** *Prerequisites: Algebra I*

This course will introduce students to the study of statistics through the context of sports. Topics covered will include exploratory data analysis, hypothesis testing, experimental design, and probability. All topics studied will be learned with the goal of answering interesting questions related to sports. This course will serve as an excellent foundation to the study of statistics.

Science

REQUIRED CREDITS: 3

Physical Science **Grade: 9-12** **Credit: 1.0**

This course focuses on developing an understanding of concepts and applications within the field of physical science. Students will use the periodic table to identify elements and describe the physical properties of those elements. Students will demonstrate changes in states of matter and predict the effect that energy transfer may have on matter. Students will predict and demonstrate interactions between energy, force, and motion. Finally, students will apply these and other skills to conduct experiments using correct scientific procedures.

Biology **Grade: 10-12** **Credit: 1.0** *Prerequisites: Physical Science*

This course focuses on developing an understanding of concepts, processes, and patterns within the field of biology. The student will recognize the diversity among living organisms and classify them according to their unity of traits. The student will recognize the interdependence of organisms and their environment while describing how both energy and matter are conserved within that ecosystem. The student will describe how all life processes occur at the cellular level and describe the process by which traits are passed to future generations of living organisms. Finally, students will apply these and other skills to conduct experiments using correct scientific procedures.

Chemistry **Grade: 11-12** **Credit: 1.0** *Prerequisites: Physical Science*

This course focuses on developing an understanding of concepts and applications within the field of chemistry. Students will use the periodic table to identify elements and further describe the chemical properties and electron configuration

of those elements. Students will classify matter according to its composition and distinguish between elements, compounds, and mixtures. Students will predict the type of bonds that form between atoms. Finally, students will apply these and other skills to conduct experiments using correct scientific procedures.

Physics **Grade: 11-12** **Credit: 1.0** *Prerequisites: Physical Science*
(Rotates with Environmental Science every other year) Even Years (24-25) (26-27)

This course is the study of the physical world. Topics include vectors, force and motion, work/energy, momentum/collisions, rotational motion, and thermodynamics. Considerable math skills are required.

Environmental Science **Grade: 11-12** **Credit: 1.0** *Prerequisites: Physical Science*
(Rotates with Physics every other year) Odd Years (25-26) (27-28)

This course focuses on developing an understanding of concepts, patterns, and applications within the field of environmental science. Students will examine the interdependence of organisms and their environment. Students will describe the interactions among Earth's systems and the processes of change within those systems. Students will describe the effect of human activity on Earth's resources, and, after research, recommend changes in that activity. Finally, students will apply these and other skills to conduct experiments using correct scientific procedures.

Social Studies

REQUIRED CREDITS: 3

American History **Grade: 9-12** **Credit: 1.0**

This course covers American History from the Civil War into the 20th century, including reconstruction, American Imperialism, World War I and World War II, the Korean War, the Vietnam War, and the Cold War. Emphasis will be given on how events of the past have shaped our future.

World History **Grade: 10-12** **Credit: 1.0**

This course covers ancient civilizations, world religions, the middle ages, the rise and expansions of world empires, all major wars, and the development of modern nations.

Government **Grade: 11-12** **Credit: 1.0**

This course is the study of the federal and state government. This course covers the development of the American system from Enlightenment in Europe to colonization of America, to the foundations of the constitution, and our current governmental status. *We also discuss state and local governments. US Constitution and Missouri Constitution Tests will be taken during this course.

Geography **Grade: 11-12** **Credit: 0.5**

This course is designed to look at geography and how humans affect the environment and the environment affects humans. In this course, students expand on different regions and countries and explore different world cultures.

Contemporary Issues **Grade: 11-12** **Credit: 0.5**

This course includes discussion, study, and the application of research of current world events and their impact on society.

Fine Arts (Music, Visual Arts, Theater) REQUIRED CREDITS: 1

Fine Arts (Music)

Band **Grade: 9-12** **Credit: 1.0** *Prerequisites: Junior High Band*

This course is designed to focus on the fundamentals of band, discipline, pride, commitment and musicality. All students will be expected to attend all performances. These will include but are not limited to marching band performances and

concert band performances. Most work will be done in class; however students will be expected to practice outside of class. **Students are expected to remain in the class the entire year.** "May be repeated for credit"

Choir **Grade: 9-12** **Credit: 1.0** ***Possible class**

This course is designed to expose students to a variety of various genres and types of music. The majority of the class time will be spent singing and learning music. Students will be required to attend all performances. Performances at concerts will account for a portion of the student's grade. **Students are expected to remain in the class the entire year.** "May be repeated for credit"

Guitar **Grade: 9-12** **Credit: 1.0** ***Possible class**

Students enrolled in guitar will discover elements of music including sound, rhythm, melody, and harmony as well as elements that structure music such as key, texture, and form. Many styles of music through several genres will be explored through listening, viewing and discussing. We will learn the key parts to the guitar, strumming and fingering techniques, chords, basic music theory, notes on each string and ensemble playing.
*Students can also enter with previous guitar experience. **Students are expected to remain in the class the entire year.**

Pop Choir **Grade: 9-12** **Credit: 1.0** ***Possible class**

Students will focus on singing pop styles of music and learn basic choreography techniques for show choir type performance. Previous dance experience not necessary, however, students should be able to match pitch when singing.
*Enrollment is at discretion of the teacher. **Students are expected to remain in the class the entire year.**

Fine Arts (Visual Arts)

Art I **Grade: 9-12** **Credit: 1.0**

Art 1 is designed to provide a foundation for Art 2. Emphasis is placed on understanding the Elements of Art and Principles of Design as a basis for composition. Students will explore a variety of artists, art processes and materials such as drawing, painting, printmaking, two & three-dimensional design, and digital art. Student artwork will reflect aesthetics & cultural and historical contexts. Willingness to get involved in the creative process is a more important requirement than the student's talent or previous experience.

Art II **Grade: 10-12** **Credit: 1.0** **Prerequisites: Art I**

A second year course that provides an opportunity for students to expand on the drawing, painting, printmaking, two & three-dimensional design, and digital art concepts introduced in Art 1. Emphasis is placed on experiences with design principles, drawing techniques and painting skills leading to the development of abilities that are necessary for Studio Art. Students are given more in depth problems to solve creatively while becoming more adept through a broad exposure to various media.

Art Appreciation **Grade: 9-12** **Credit: 1.0**

Art Appreciation will introduce students to the visual arts and the variety of art mediums and techniques used to create two and three dimensional works of art. Students will also study the history of art.

Practical Arts (Ag, Business, & FACS) REQUIRED CREDITS: 1

Practical Arts (Agriculture)

Agriculture Science I **Grade: 9-12** **Credit: 1.0** **Prerequisites: FFA membership. Recommended for freshmen.** Offered Yearly

This course includes the history and organization of the FFA association. Students will also learn basic leadership skills, Supervised Agricultural Experience Programs and record keeping, agricultural careers, and instruction in animal reproduction and nutrition. Students will also spend approximately six weeks of instruction in shop safety, tool identification and basic welding principles. Students are expected to become active FFA members, take class notes, participate in class discussion and cooperative learning, and behave safely in a shop setting. Students are also expected

to keep a class notebook (physical or electronic) for each semester including all handouts and written work. Agricultural Science I students will also be required to memorize the FFA creed.

Agriculture Science II **Grade: 10-12** **Credit: 1.0** **Prerequisites: FFA membership and Agriculture Science I. Must have earned a grade of "C" or better to enroll. Recommended for sophomores.** Offered Yearly

Students in Agriculture Science II will explore soil and plant science, including plant identification, reproduction, and nutrition. Leadership instruction will focus on The Habits of Highly Effective People, as well as training in agricultural advocacy. Instruction in oxyacetylene cutting and mig welding and small project construction will occur in the 4th quarter. The students are expected to be FFA members. They are also expected to take class notes, participate in class discussion, and cooperate in group activities. Podcasts will also be integrated into instruction.

Advance Animal Science **Grade: 11-12** **Credit: 1.0** **Prerequisites: Agriculture Science I and II. Students must be juniors or seniors, earning at least a "C" in prerequisites. (Possible class)**

The course includes selection and evaluation of livestock, genetics, reproduction and nutrition, herd management, utilization of livestock marketing options, and forage use. (Emphasis will be placed on beef cattle management). Student is expected to maintain a notebook of all of the information taught. They will complete study questions, worksheets, unit exams. Student also will complete a term paper at the end of the class over a topic concerning the livestock industry. Podcasts may be periodically assigned that relate to unit content.

Agricultural Construction **Grade: 11-12** **Credit: 1.0** **Prerequisites: Agriculture Science I and II. Students must be juniors or seniors, earning at least a "C" in prerequisites. (Rotates with Ag Structures every other year)**

Instruction will include identification of common metals, shop safety, arc welding, oxyacetylene cutting, plasma cutting, MIG welding, and metal project construction. Students will develop skills in different methods of cutting and welding metal in the agricultural shop. Student will be required to design and construct a metal project in the shop.

Agricultural Structures **Grade: 11-12** **Credit: 1.0** **Prerequisites: Agriculture Science I and II. Students must be juniors or seniors, earning at least a "C" in prerequisites. (Rotates with Ag Construction every other year)**

Students enrolled in Agricultural Structures will explore the planning and arrangement that goes into a farmstead. They will learn about environmental factors that determine how a farmstead is arranged as well as how slope, proximity to utilities, and other factors affect where a farmstead is placed. Students will the steps experience the steps taken in land acquisition; working with industry professionals. Content will also include the basics in building construction including framing, electrical wiring and plumbing. Students are expected to develop an understanding for the factors that influence how a farmstead is arranged. Opportunities for small project construction may also be provided.

Agricultural Business **Grade: 11-12** **Credit: 1.0** **Prerequisites: Prerequisites: Agriculture Science I and II. Students must be juniors or seniors, earning at least a "C" in prerequisites. (Possible class) (Economics, Sales and Marketing)**

Students will study economic principles of supply and demand, diminishing returns, substitution, and time value of money. The study of business management will also include depreciation, fixed and variable costs and tax management. An introduction to sales and marketing will complete the course. Students will develop a strong base in problem solving. Students will engage in many group and class discussions concerning business ideas and theories and will create a sales presentation on a product of their choice

Greenhouse Management **Grade: 11-12** **Credit: 0.5** **Prerequisites: Agriculture Science I and II. Students must be juniors or seniors, earning at least a "C" in prerequisites. (Offered with Landscape and Design)**

Introductory level course that provides the principles and practices of commercial greenhouse construction, operation, and management. Site selection and orientation, various types of greenhouse structures, shading materials, and coverings as well as heating, cooling, and ventilation requirements and equipment are discussed. Content will also include a short introduction to **Floriculture Production and Management** which is designed to introduce students to the

principles and practices of floriculture production. Students will develop floriculture skills and the basic understanding necessary to be successful in entry-level positions in the floriculture industry.

Landscape and Design **Grade: 11-12** **Credit: 0.5** **Prerequisites: Agriculture Science I and II. Students must be juniors or seniors, earning at least a "C" in prerequisites.**
(Offered with Greenhouse Management)

Units of instruction will include benefits of landscaping, landscaping careers, landscape plant identification, cost estimates, plant selection, and developing a plan. Students will learn about opportunities in the landscaping industry and develop the knowledge and skills needed to work in the horticultural industry.

Practical Arts (Business)

Personal Finance (Required) **Grade: 10-12** **Credit: 0.5**

Financial literacy is essential in meeting the financial challenges of the 21st Century. The competencies which form the basis for this semester course enable students to analyze their personal financial decisions, evaluate the costs and benefits of their decisions, recognize their rights and responsibilities as consumers, and apply the knowledge learned in school to financial. Understanding and managing personal finances are key to one's future financial success. This one-semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

Introduction to Business **Grade: 9-12** **Credit: 0.5**

This course is designed to introduce students to how business works in today's society and to provide a foundation for other business courses. Content includes business functions such as accounting, management, marketing, and other consumer issues regarding money and money management, banking system and services, government's role in business, and technology in the business world.

Web Design **Grade: 9-12** **Credit: 0.5**

We use the internet daily. Having a web presence is vital for many businesses. The demand for talented web designers is high and is expected to continue to grow. In this course, students will explore the fundamentals of web design. Students will use web programming languages (HTML5, CSS3, etc.), graphic applications, and other web authoring tools to design and edit web pages for personal and business use. This course is designed to give students the basic knowledge of web programming languages, web page design, and accessibility standards.

Computer Science Principles **Grade: 9-12** **Credit: 1.0**

This course is designed to introduce students to the foundations of modern computing. A broad range of foundational topics will be covered such as programming, algorithms, the Internet, big data, digital privacy and security, and societal impacts of computing. This course seeks to provide knowledge and skills to meaningfully participate in our increasingly digital society, economy, and culture.

Accounting **Grade: 10-12** **Credit: 1.0**

All students, regardless of their occupational choice, can benefit from accounting instruction since it is an integral part of every business institution and organization. This course is designed to build a basic understanding of manual and automated accounting principles, concepts, and procedures. Activities include using the accounting equation, completing the accounting cycle, entering transactions to journals, posting to ledgers, preparing end-of-period statements and reports, managing payroll systems, completing banking activities, calculating taxes, and performing other related tasks.

Computer Applications **Grade: 10-12** **Credit: 1.0**

This area of instruction provides content for knowledge and skills required in the technology-based workplace. The demand will continue to expand for individuals to use computer hardware and software to create documents, gather information, and solve problems. This class is vital for students planning to enter the workforce or postsecondary education. This course is designed to help students master beginning and advanced skills in the areas of word processing, database management, spreadsheet applications, desktop publishing, multimedia, Internet usage, and integrated software applications.

Yearbook **Grade: 11-12** **Credit: 1.0** *Prerequisites: Teacher Approval*

Students will be responsible for certain sections of the Miami R-1 yearbook. They will learn about layout and design, writing, computer skills, and photography. The students will also be involved with advertising and yearbook sales. Students are expected to remain in this class the entire school year. "May be repeated for credit" *(only once)*

Practical Arts (Family and Consumer Sciences)

Health (Required) **Grade: 10-12** **Credit: 0.5**

This course meets the needs of today's students and focuses on the promotion of personal and family health throughout the life span. It includes concepts in communicable diseases, family relations, substance abuse, nutrition, sports nutrition, fitness and other concerns pertaining to the development of personal and family health. Career opportunities in health-related fields are investigated. Family/Individual standards are aligned to the National Health Education Standards. Meets 0.5 health credit graduation requirement.

Nutrition and Wellness **Grade: 9-12** **Credit: 0.5**

This course prepares individuals to understand the principles of nutrition; the relationship of nutrition to health and wellness; the selection, preparation, and care of food; meal management to meet individual and family food needs and patterns of living; food economics and ecology; optimal use of the food dollar; understanding and promoting nutritional knowledge; and application of related math and science skills. (Handling, preparing & eating food)

FACS General Foods **Grade: 9-12** **Credit: 0.5**

This course focuses on the general study of cooking and related culinary arts. The course includes instruction in food preparation; cooking techniques, equipment operation and maintenance; sanitation and safety. (Handling, preparing & eating food)

Apparel and Textiles **Grade: 10-12** **Credit: 0.5**

(Rotates with Child Development I every other year)

This course is designed to help individuals understand the social, psychological, and physiological aspects of clothing and textiles; the nature, acquisition, and use of clothing and textile products; the selection, construction, maintenance, and alteration of clothing and textile products; and the effect of consumer choices on the individual and family as well as the clothing and textile industry. *Students will be providing their own fabric and accessories for this course

Housing Environment Design **Grade 10-12** **Credit: 0.5** **Prerequisite: Apparel and Textiles**

(Rotates with Advance Child Development every other year)

This course focuses on the development of efficient and cost-effective room and floor plans that meet the needs of residential and/or commercial clients. The elements and principles of design as found in the housing industry, drafting of floor plans, and interior design/decorating are the primary areas to be covered. Students will develop skills that will enable them to plan or assist in the planning of their own living space area and décor, or may provide a foundation for a career in this field. This may include sewing some accessories for the home or a "scale" room model.

Child Development I **Grade: 10-12** **Credit: 0.5**

(Rotates with Apparel and Textiles every other year)

This course focuses on the intellectual, social, emotional, and biological development of children. It includes instruction in parent-child relations, parenting practices, special needs of children, parental and environmental influences on child development, external support services, and related public policy issues.

Advance Child Development **Grade: 10-12** **Credit: 0.5** **Prerequisite: Child Development I**
(Rotates with Housing Environment Design every other year)

This course provides advanced study in child development and guidance, including the physical, social, and intellectual development of children. Actual experience in supervising children provides the opportunity to improve parenting skills, explore careers related to Implementation Guide for Family Consumer Sciences and Human Services child development, and identify general employment skills.

Career Development Entrepreneurship **Grade: 10-12** **Credit: 1.0**

This course introduces individuals to career opportunities and/or career pathways in family consumer sciences and human services-related occupations/careers. It explores the development, marketing, and management functions associated with owning and operating a family consumer sciences and human services-related business. Instruction emphasizes career development and preparation components; balancing family life and entrepreneurial ventures; hands-on activities in entrepreneurial concepts; and use of technology.

Physical Education REQUIRED CREDITS: 1

Physical Education **Grade: 9-12** **Credit: 1.0**

This course is structured to give all students a broad range of exposure to a variety of activities and sports, with emphasis given to activities requiring a team cohesive environment. The concept of individual constraints as they apply to team interaction is stressed on a daily basis. Rules conformity and interpretation are examined and stressed. Freedom of movement and the application of theory as it relates to exercise and activity are put into practice in each class session. Each student will also go through the President's Physical Fitness and Assessment testing twice during the school year. Grading for this class is predicated on 3 factors: Attendance, Participation, and Adherence to the dress code requirements set forth by the teacher.

Body Conditioning **Grade: 9-12** **Credit: 1.0**

Emphasis is placed on total wellness, which will include analyzing individual needs in the areas of strength, endurance, cardiovascular fitness, flexibility, and body composition. Nutrition, goal setting, dealing with stress, and consumer issues will also be covered.

Lifetime Sports **Grade: 10-12** **Credit: 1.0**

The focus and emphasis of this course is to expose and integrate to the student a variety of activities and sports which do not require large numbers of individuals. The direction is to provide the students with a base knowledge from which individuals will be able to find an activity to forestall a sedentary lifestyle. Activities represented in this course will include but are not limited to shuffleboard, tennis, golf, archery, bowling, and weight lifting. Each student will also go through the President's Physical Fitness and Assessment testing twice during the school year.

Miscellaneous Elective Classes REQUIRED CREDITS: N/A

A+ PEER TUTORING **Grade: 11-12** **Credit: 1.0**

Prerequisites: Enrollment in the A+ Program

This course allows juniors and seniors who are enrolled in the A+ Program to earn one credit by tutoring elementary students. *These tutoring hours also qualify students for some college funding upon completion of all other A+ requirements and upon the availability of state funds. *Must have an A+ contract signed.*

School Flex Work Study **Grade: 12** **Credit: 1.0**

The School Flex Program is a career and technical education program based on the cooperative education method of instruction. The program should serve students with a wide variety of career interests, including careers not traditionally considered "vocational". Academic study is combined with paid supervised employment in a career area of interest. The employment is planned and supervised by the school in cooperation with a business or industry. The program is open to

high school seniors as a practical arts elective. Students will sign out of school in the high school office immediately following 5th hour at 1:46 PM each school day.

Eligibility Requirements: Students eligible to enroll in the Miami R-1 High School Flex Program must:

1. Be of senior standing academically and on track to graduate with their cohort.
2. Have at least a 95% attendance rate for the school year prior to starting the program and then maintain that 95% or higher the first semester to stay in the program for the second semester.
3. Have no major discipline infractions or suspensions on record.
4. Arrange employment with an employer in the Miami R-1 School District or local area **before** the start of the participating semester.
5. Meet with the high school principal during the semester prior to the participating semester in order to discuss these qualifications and determine eligibility for the program.
6. All paperwork for enrollment in this program must be completed before the first day of each semester.

Foreign Language **REQUIRED CREDITS: N/A**

German I Grades: 9-12 Credit: 1.0

In German I, students will acquire an elementary ability to listen, speak, read, and write the German language. This course emphasizes the skills needed for useful daily communication, e.g. making friends, expressing ones needs and preferences, seeking and giving directions, etc. Along with learning the language, students will also be introduced to German culture.

German II Grades: 10-12 Credit: 1.0 Prerequisites: German I

German II builds on the first-level course. Students increase their vocabulary, continue to use the present tense and improve conversational, reading, and writing skills. The past tense and other more advanced grammatical concepts are introduced. Students continue to study the culture of German-speaking peoples.

Launch Online Virtual Courses (MOCAP)

A+ Tutoring	Electives	0.5	This course offers an opportunity for 11th & 12th graders to complete their A+ tutoring hours for the A+ Scholarship in a virtual setting. Students in this course are required to earn a minimum of 50 tutoring hours for the ½ credit. Students will earn their tutoring hours by working with other Launch students/classes and will tutor through Canvas/Zoom. All tutoring hours must be completed via the Springfield Public Schools Launch program with Springfield Public Schools/Launch teachers. Students need to check with their high school A+ Coordinator to see if they are currently meeting the A+ Requirements prior to enrolling: 95%+ attendance, 2.5+ non-weighted GPA, Proficient or Advance on the Algebra I EOC (there are other ways to meet this requirement) and good citizenship.
ACT Prep	Electives	0.5	ACT Preparation is a course designed to give students an opportunity to prepare to take the ACT (American College Test). Students will spend half the course on the verbal (English, Reading, and Writing) sections and the other half on the Mathematics and Science Reasoning sections of the test. This class will focus on learning and practicing strategies as well as reviewing content to improve scores. Concepts reviewed include grammar and punctuation rules; algebra, geometry, and trigonometry principles; and reasoning skills for interpreting charts and graphs.
Driver Education	Electives	0.5	This course provides classroom instruction with a focus on the skills, responsible attitudes, and behaviors needed to become a safe driver. This course is dedicated to the concept of helping young drivers save lives – their lives as well as the lives of others. While taking the course, students will also learn about the basic traffic laws and rules of the road that apply to common everyday driving situations.

AP English Lit. & Comp.	English Language Arts	1.0	This course is intended to prepare you for the AP English Literature and Composition examination administered by the College Board each spring. All students will engage in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, you will deepen your understanding of the ways writers use language to provide both meaning and pleasure for their readers. As a survey of Western and English Literature, the course will include not only a study of major literary works of each historical period, but also a study of the economic, moral, and social environment that produced the literature. Critical analysis of the structure and genre of literature corresponds to an approach to writing about literary works, including writing to understand, to explain, and to evaluate. Writing genres include expository, analytical, and argumentative essays.
Contemporary Literature	English Language Arts	1.0	This course explores major themes in contemporary novels and non-fiction texts. Students will read, discuss, research, and analyze literary selections. They will examine authors' techniques and will gain awareness of how literature reflects society. Students will read and write about a variety of works including literature from different cultures, authors and societies; young adult literature; and contemporary literature. The course will help students become more culturally literate and globally aware while developing vocabulary, reading comprehension, and composition skills. This course may be conducted in both small group and whole-class format.
Creative Writing I	English Language Arts	0.5	Creative Writing is an in-depth writing course that gives students the opportunity to further develop their talent in the areas of personal essay, fiction, poetry, and drama. In a collaborative workshop structure, students will explore numerous types of genres as they work through the writing process and will be expected to identify their strengths and weaknesses as a writer. Students will analyze texts of published authors and use their speaking and listening skills to share their writing.
Creative Writing II	English Language Arts	0.5	This is an elective course intended to be taken in addition to a core English course. Creative Writing is an in-depth writing course that gives students the opportunity to further develop their talent in the areas of personal essay, fiction, poetry, and drama. In a collaborative workshop structure, students will explore numerous types of genres as they work through the writing process and will be expected to identify their strengths and weaknesses as a writer. Students will analyze texts of published authors and use their speaking and listening skills to share their writing.
English I	English Language Arts	1.0	English I builds on reading, writing, listening and speaking, and information literacy skills begun in middle school. Literature includes thematic units consisting of novels, short stories, plays, poetry, and nonfiction. Writing includes varied composition experiences.
English II	English Language Arts	1.0	In this course students will engage in writing, reading, speaking and listening. This course builds on skills learned in earlier grades. Students will also learn to analyze literature, identifying ideas, themes, and literary elements; but they also are encouraged to respond personally to works. As students work through this course they will read and respond to a variety of nonfiction texts and produce personal and nonfiction writings, at times based on research.
English III	English Language Arts	1.0	This course enlarges the students' understanding of their heritage through an integrated study of American literature. Through responding to fiction, nonfiction, drama, and poetry, both formally and informally, students examine the literature of the American experience. Although students entering the class should have basic writing skills, further development of composition modes and media are integrated into an extensive reading and language study.
English IV	English Language Arts	1.0	In this course students compare and evaluate significant writers and their works by exploring recurring themes and ideas. Writing, inspired by the literature studied, personal experience, and source-based research, will be an important part of this course. Students are expected to undertake a research project, either in writing or in an exhibition.

Film as Literature I	English Language Arts	0.5	This course is an in-depth study of film production and film writing from a literary perspective. Students will engage with a variety of films through many thematic units, including but not limited to the history of film production, telling a story through visuals, a director's study, adapting a book to film, film genre study, creating stop-motion animation, and telling their own story in film. Students will analyze the literary, dramatic, and cinematic devices of film through small group and whole class discussion, in formal and informational writing, and through collaborative projects with classmates. Through questioning and critical analysis, students will become more perceptive viewers of film.
Film as Literature II	English Language Arts	0.5	This course is an in-depth study of film production and film writing from a literary perspective. Students will engage with a variety of films through many thematic units, including but not limited to the history of film production, telling a story through visuals, a director's study, adapting a book to film, film genre study, creating stop-motion animation, and telling their own story in film. Students will analyze the literary, dramatic, and cinematic devices of film through small group and whole class discussion, in formal and informational writing, and through collaborative projects with classmates. All students will have their film reviews published online. Through questioning and critical analysis, students will become more perceptive viewers of film.
Grammar & Comp I	English Language Arts	0.5	This course has two parts: One half parallels the Writing I course at Missouri State University, with students developing proficiency in writing for academic and professional purposes and learning to produce, copy-edit, and publish quality research writing. The other half of the course provides an intensive and immersive research reading experience, both guided and self-directed, with students becoming conversant and current in the areas of academic and professional discourse most relevant to them, and enjoying opportunities to reflect on, share, and act upon that learning in ways that help them and their communities.
Grammar & Comp II	English Language Arts	0.5	This course has two parts: One half parallels the Writing I course at Missouri State University, with students developing proficiency in writing for academic and professional purposes and learning to produce, copy-edit, and publish quality research writing. The other half of the course provides an intensive and immersive research reading experience, both guided and self-directed, with students becoming conversant and current in the areas of academic and professional discourse most relevant to them, and enjoying opportunities to reflect on, share, and act upon that learning in ways that help them and their communities.
Introductory Speech	English Language Arts	1.0	This course is for students who want to learn to think clearly and express themselves effectively before an audience. Students are provided opportunities to develop and increase their self-confidence and fluency as speakers. The course covers multiple aspects of public speaking and gives the student practical experience through participation. Students are introduced to the study of poise, use of body and voice, oral interpretation of literature, beginning argumentation, and speaking in front of an audience.
Reading	English Language Arts	1.0	This course is designed for students that may be reading below, on, or above grade level. The purpose of this course is to provide a reading program with differentiated instruction for students based on each student's individual reading ability. This is possible through the use of the Reading Plus program, where students will complete online activities based on need, and through specific Canvas assignments that will reinforce the work students complete on Reading Plus. Students will also interact with texts matched to their reading level along with project content that is appropriate for high school students and based on personal interest. This course can be counted as one English credit. All credits received after will be counted as elective credit.

Strategic Reading & Writing (9th Grade)	English Language Arts	1.0	
AP Studio Art 2-D Design	Fine Arts	1.0	This course provides a program of study which allows academically and artistically accelerated high school students the opportunity to pursue college level instruction. This course will provide the highly motivated art student with educational and artistic opportunities beyond the regular studio class for a thorough, rigorous, and challenging course of study. The course will develop students' understanding of basic design concepts and principles and the use of these principles in their daily lives. The class will require visual analysis, synthesis and evaluation skills, as well as regular outside of class assignments and projects. This course is designed to prepare the students for the Advanced Placement 2D design test. This course may be repeated for credit.
Fine Arts Appreciation I: Music	Fine Arts	0.5	Students enrolled in this online course will be introduced to music of the 20th century and how it affected the culture of America. Units to be covered may include, but not be limited to Jazz, Rock n Roll, Motown, and Hip Hop.
Fine Arts Appreciation II: Art	Fine Arts	0.5	Students enrolled in this online course will be introduced to visual art ideas as they relate to the history and context in which art is made. Students will interact with art through the lens of a tourist, a critic and a curator through activities that include virtually visiting museums around the world, blogging, and curating a virtual exhibition.
Music Theory I	Fine Arts	0.5	The purpose of the Music Theory course is to provide a program of study which allows high school students the opportunity to deepen their understanding of Music Theory. This course will provide the highly motivated music student with educational and musical opportunities beyond the regular performance ensembles for a thorough, rigorous, and challenging course of study. The class will require musical analysis, synthesis and evaluation skills.
Music Theory II	Fine Arts	0.5	The purpose of the Music Theory course is to provide a program of study, which allows high school students the opportunity to deepen their understanding of Music Theory. This course will provide the highly motivated music student with educational and musical opportunities beyond the regular performance ensembles for a thorough, rigorous, and challenging course of study. The class will require musical analysis, synthesis and evaluation skills.
Health	Health & Physical Education	0.5	The purpose of this course is to help students gain the necessary knowledge to make sound health decisions regarding their personal health and wellness. Instruction may include units covering mental health, heart disease, CPR, cancer and carcinogenic agents, reproduction and sexually transmitted diseases, substance abuse, personal health care, and chronic and infectious diseases.
Lifetime Fitness	Health & Physical Education	0.5	Students in "Lifetime Fitness" will learn concepts and skills to achieve and maintain a health-enhancing level of physical activity and fitness. This course will help students recognize the benefits of physical activity and help set personal fitness goals. It is designed to provide the student with the knowledge and desire to pursue physical activity throughout life.
Physical Education I	Health & Physical Education	0.5	Students in this course will deal primarily with the concepts and improvement of physical fitness. It is designed to provide the student with the knowledge and desire to pursue physical fitness throughout life. The course will include a variety of lab experiences, lectures, written tests and fitness tests. Of particular importance are the health related aspects of fitness – cardiovascular endurance, strength, muscular endurance, flexibility and body fat composition.
Physical Fitness	Health & Physical Education	0.5	Students in this Physical Fitness will gain an understanding and appreciation of the lifetime need for fitness. Students will participate in group and individual activities to develop all aspects of health related fitness and the proper components of weight training principles. This course uses a combination of traditional assignments and logging exercise hours using wearable fitness trackers.

Algebra I	Mathematics	1.0	Algebra I is organized around the families of functions, with special emphasis on linear and quadratic functions. Students will learn to represent them in multiple ways as verbal descriptions, equations, tables, and graphs. These functions will be applied and used to model real-world situations in order to solve arising problems. Students will also learn data analysis and apply geometric properties in the algebraic realm.
Algebra II	Mathematics	1.0	Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions, and probabilities. Students receiving credit for this course cannot also receive math credit for Algebra II Honors.
AP Calculus AB	Mathematics	1.0	The mathematics of Calculus is based on the idea of rates of change. Topics include analyzing functions, limits, differentiation, curve sketching, extreme value problems, anti-differentiation, definite integration, areas under curves, and volumes of solids. This course prepares students for the Calculus Advanced Placement Test for college credit.
AP Calculus BC	Mathematics	1.0	The mathematics of Calculus BC (Calculus 2) is based on the idea of rates of change and includes the study of functions, differentiation, and integration, applications in integration, indeterminate forms, improper integrals, sequences, series, conic sections, parameterization, and polar coordinates. This course prepares students for the Calculus Advanced Placement Test for college credit. Dual enrollment for college credit may be available. Inquire at your high school.
AP Computer Science A	Mathematics	1.0	This course introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.
AP Computer Science Principles	Mathematics	1.0	This is a fast-paced course equivalent to a college introductory programming class. Students will learn about the exciting kinds of problems tackled by computer science while exploring the field's most important tool—programming. The course will explore systematic problem-solving strategies that can be applied to real-world problems. The focus will be on writing full classes and the logic and structures around building them. Throughout the course, students will study common, reusable algorithms and learn to analyze them for correctness and speed.
AP Statistics	Mathematics	1.0	The AP Statistics course is an excellent option for any student who has successfully completed Algebra II, regardless of the student's intended college major. This course is not a Calculus-based course. The purpose of AP Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students may choose to take the AP Exam at the end of the course.
College Algebra	Mathematics	1.0	This course is a standard course in college-level algebra. Topics include (but are not limited to) properties of functions; polynomial, rational, exponential, logarithmic functions and their graphs; and conic sections. Dual enrollment for college credit may be available.

Foundations of Algebra	Mathematics	1.0	Foundations of Algebra provides students with the fundamental skills required to be successful in future algebra courses. Students will study concepts of number and operations, algebraic relationships, and probability. Students will learn algebraic concepts including (but not limited to) solving linear equations and graphing. It will prepare students to become critical thinkers. Through mathematics, students not only need to develop skills with numbers, but develop the ability to set up problems, approach problems with a variety of techniques, and understand the underlying mathematical features of such problems.
Geometry	Mathematics	1.0	Geometry will require students to explore complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Emphasis is placed on using deductive reasoning in the analysis of topics such as parallel lines, circles, polygon congruence, similarity, area, volume, and probability. Students receiving credit for this course cannot also receive math credit for Geometry Concepts or Geometry Honors.
Introduction to Computer Science	Mathematics	0.5	This course is an introduction to computer programming, intended for the student who is interested in learning to write and interpret JAVA computer programs to solve problems in a structured environment. This course is designed for students who have an interest and ability in mathematics, science, or business. It will cover basic terminology, history, input/output control, decision control, repetition, functions, arrays, and elementary strings.
Precalculus	Mathematics	0.5	Precalculus is a course designed for students who are planning to take Calculus and are interested in a math- or science-related career. Students in this course will study functions, graphing, limits, and other advanced topics.
Precalculus with Trigonometry	Mathematics	1.0	This course covers topics including factoring, simplifying rational functions and their graphs, solving linear and nonlinear equations, polynomial functions, inverse functions, the binomial theorem, logarithms, exponentials, solutions to systems of equations using matrices, solutions to nonlinear systems, and sequences. Students will also study trigonometric and inverse trigonometric functions with emphasis on trigonometric identities and equations. This course is intended for students planning to take AP Calculus AB.
Professional Math	Mathematics	1.0	Professional math will introduce the applications of mathematics in areas such as cryptography, history, music, weather, architecture, and baseball and crime scene analysis. Students in this course are not expected to have especially strong math skills or scientific backgrounds; most calculations will be elementary although advanced material is taught as needed. Students will be exposed to number theory, trigonometry and calculus, group theory, geometry, probability, and mathematical modeling. Concepts will be applied immediately to the problems that motivated them.
Statistics	Mathematics	1.0	The Statistics course is an excellent option for any student who has successfully completed Algebra II, regardless of the student's intended college major. This course is not a Calculus-based course. The purpose of Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students receiving credit for this course cannot also receive math credit for AP Statistics.
Trigonometry	Mathematics	0.5	Trigonometry is designed for the students who will continue on to Pre-calculus or for the college-bound student. Trigonometric topics include applying properties of the unit circle, utilizing trigonometric identities to solve problems, and graphing trigonometric functions.
Accounting I	Practical Arts	1.0	Are you thinking of majoring in business or marketing in college? Do you plan to own your own business? If so, you will need to have an understanding of the accounting process, so why not get a step ahead while you are in high school? This course is designed to build a basic understanding of manual and automated accounting principles, concepts, and procedures which are necessary for businesses to make financial decisions. Students will develop business skills such as: creating and developing spreadsheets, 10-key operation, financial problem solving, professional accounting software, and basic business principles.

Agricultural Business I	Practical Arts	1.0	This contest is designed to stimulate instruction of economic and agricultural business management principles in the secondary agriculture curriculum.
Computer Applications	Practical Arts	0.5	Through hands on exploration and project-based approach, you will continue to stand out in digital productivity. Colleges and the workplace require skill in Microsoft Office. By using advanced techniques in Microsoft Office, you will create an electronic portfolio and complete the course with the opportunity to earn the Microsoft Office Specialist industry-recognized certification.
Computer Science Essentials (CSE)	Practical Arts	1.0	In Computer Science Essentials, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.
Computer Science Principles (CSP)	Practical Arts	1.0	Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Using Python® as a primary tool, students learn the fundamentals of coding, data processing, data security, and task automation, while learning to contribute to an inclusive, safe, and ethical computing culture. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP).
Digital Communications	Practical Arts	0.5	This course is designed to teach students various digital input and manipulation methods. Emphasis is placed on typing personal and business letters and reports. The students will explore proper keyboarding technique, voice and handwriting recognition. Units on file management email and 10-key will also be covered. This class meets the requirements for the Intro to Computer Applications course.
Employment Internship	Practical Arts	0.5	This course will provide students with the opportunity to intern (work) in different job placements. The length of time spent at each job placement usually lasts three to four weeks for a minimum of 1½ to 2 hours per day. A minimum of 20-30 hours of employment exploration is required from each employer. Days are set aside for contact with the program coordinator to review and discuss career exploration experiences. Students must be 17 and provide their own transportation. Work experience in the internship program is generally on a non- paid basis. The student must maintain medical insurance at his/her parents' expense during this class. Businesses/Organizations will not provide workers compensation, general liability, or professional liability insurance coverage for the student during the non-paid internship period.
Hospitality & Tourism Management I	Practical Arts	1.0	This program introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.
Hospitality & Tourism Management II	Practical Arts	1.0	
Human Development I	Practical Arts	1.0	This course addresses the concepts related to understanding the areas and stages of child growth and development, recognizing effects of heredity and environment on human growth and development, promoting optimum growth and development in the prenatal, and infancy stages. Careers in child development are explored. Leadership development will be provided through Family, Career, and Community Leaders of America (FCCLA) student organization.

Introduction to Business	Practical Arts	1.0	This course is designed to introduce the student to today's critical business management concepts and principles in a realistic, investigative, and enriching manner. Business operations are approached from the entrepreneurial and management perspective. All the functions of business management are covered extensively, including the use of technology and communication as tools of business. Students will also explore the global dimension of business and possible career opportunities.
Introduction to Engineering Design (IED)	Practical Arts	1.0	
Marketing I	Practical Arts	1.0	Marketing I introduces the student to the field of marketing. This course of study includes emphasis on marketing principles and an introduction to marketing careers. Topics covered include the fundamentals of marketing: (product development, pricing strategies, promotional systems, and physical distribution), human relations communications; free enterprise economics; marketing operations; e-commerce; and management skills. Learning activities may include role-playing of class techniques, advertising layouts, promotional campaigns, team management projects, leadership training, community involvement and guest speakers on marketing careers.
Marketing II	Practical Arts	1.0	
Personal Finance	Practical Arts	0.5	Personal Finance is designed to help students apply decision-making skills to earning and spending an income, establishing and enhancing savings and investments, insurance, using credit, and managing money. Three hours of free college credit is available through the OTC articulation agreement.
Principles of Biomedical Science (PBS)	Practical Arts	1.0	
Teaching as a Profession I	Practical Arts	1.0	<p>Technological advances and global competition have transformed the nature of work. Tomorrow's jobs will require more knowledge, better skills, and more flexibility than ever before. Tomorrow's workers must be prepared to change jobs and careers several times, while continually updating their knowledge and skills.</p> <p>Career Clusters provide a common framework for career preparation by linking what students learn in school with the knowledge, skills, and experiences needed for success in postsecondary education and careers. When used to develop a student's Individual Career & Academic Plan (ICAP), the Career Clusters Framework provides students with a strong foundation for postsecondary education and future employment.</p>
Teaching as a Profession II	Practical Arts	1.0	
Web Design	Practical Arts	0.5	This course will focus on website planning, basic design, layout, and construction. Other topics include evaluation of websites, image editing, and animation. Students will learn basic HTML structure and formatting and use the Adobe Web Design Premium software suite including Dreamweaver, Fireworks, Photoshop, and Flash.
AP Physics	Sciences	1.0	AP Physics B is a national algebra/trigonometry based course in physics. The syllabus for this course is equivalent to introductory physics courses for university students. The emphasis is on understanding the concepts and skills using laboratory investigation and formulae to solve problems. Laboratory work is an integral part of this course. In this course students will investigate kinematics, Newton's laws, torque, rotational motion and angular momentum, gravitation, circular motion, work, energy, power, linear momentum, mechanical waves and sound, and electric circuits. This course is designed for college bound students interested in pursuing a science related field. Dual credit may be available. Students will be qualified to sit for the AP Physics 1 examination.

Astronomy	Sciences	1.0	This course is a multidisciplinary, laboratory based course which examines the structure and composition of the planets, stars, galaxies, and the universe. The topics will include, but are not limited to, observing the night sky, planetary features, planetary motions, the sun, stars, galaxies, and the universe.
Chemistry	Sciences	1.0	Chemistry is a non-weighted course that involves the analysis of chemical concepts and the application of basic algebraic skills. This is an NCAA approved college preparatory course but is not eligible for Dual Credit. It is not as math intensive as Honors Chemistry but does include more mathematical problem solving and independent practice than Introductory Chemistry. Laboratory work is an important part of this course. Students receiving credit for this course cannot also receive credit for Introductory Chemistry or Honors Chemistry.
Earth Science	Sciences	1.0	This is a laboratory course that integrates the study of the earth and our physical world and builds upon those concepts introduced in middle school science courses. The study of the earth will include an introduction to the science of the earth; properties and processes of its surface and interior including plate tectonics, volcanism, earthquakes, glaciation, mountain building, formation of rocks, minerals, and the structural basis of landforms, its history and our place in the universe. A study of atmospheric processes and weather elements will also be a part of this course.
General Biology	Sciences	1.0	This course provides an overview of the processes of living things, from a cellular level to the biosphere. It is a valuable course for any student, especially those requiring a general knowledge of biology for postsecondary study or careers in the fields of health or environmental sciences. Laboratory activities integrating scientific investigation and process skills make up an important component of this course. Students receiving credit for this course cannot also receive credit for Introductory Biology or General Biology Honors.
Introductory Biology	Sciences	1.0	This course provides an overview of the processes of living things, from a cellular level to the biosphere. It is a valuable course for any student, especially those requiring a general knowledge of biology for postsecondary study or careers in the fields of health or environmental sciences. Laboratory activities integrating scientific investigation and process skills make up an important component of this course. Students receiving credit for this course cannot also receive credit for General Biology or General Biology Honors.
Introductory Chemistry	Sciences	1.0	This course provides students an opportunity to discover what chemistry is about without moving into highly theoretical and mathematical studies. Laboratory investigations will be included. Many of the basic concepts of chemistry will be investigated, including the structure of matter and the application of chemistry to the environment and to society. This course has less independent preparation outside of class and is not accepted by NCAA as a science course.
Physical Science	Sciences	1.0	Physical science is the study of the physical world around you. Physical science can be broken up into two branches, chemistry and physics. <ul style="list-style-type: none"> · Chemistry: the study of the structure and properties of matter. · Physics: the study of the relationship between matter and energy. <p>The class provides an introduction to basic chemistry and basic physics. Topics covered are matter and its interactions, forces and interactions, energy, and waves and their applications. Students will participate in application of these concepts through virtual labs, projects, and writing assignments.</p>
American Baseball History	Social Studies	0.5	This course surveys and interprets the history of baseball in the United States. Major topics studied are "Origins of Sport", "Professionalism and the National Pastime", "Troubles of Big Business", "Baseball and America from the Progressive Era through the 1920s", "Baseball, the Great Depression, and World War II", "Baseball and the African American Experience," "Baseball and Post War America: 1950s-1960s," and "Baseball and America in the 1970s and 1980s." The course deals with both the role and significance of baseball in American society over the past 150 years and with the history of the game itself.

American Civil War	Social Studies	0.5	This course covers the American Civil War era from the earliest seeds of disunion at the Constitutional Convention to the end of Reconstruction. Particular attention will be given to events that unfolded in Missouri, the Ozarks, and the Trans-Mississippi Theater and their subsequent results. The strands of the K-12 Social Studies Curriculum, economics, government, geography, multicultural and current perspectives and citizenship will be utilized to understand this period of history.
AP European History	Social Studies	1.0	The AP course in European History is intended for qualified students who wish to complete classes in secondary school equivalent to college introductory courses in European history and corresponds to the most recent developments in history curricula at the undergraduate level. In colleges and universities, European history is increasingly seen in a broad perspective, with teaching methods reflecting an awareness of other disciplines and diverse techniques of presentations, including visual and statistical materials. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing
AP Psychology	Social Studies	1.0	The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology and learn about the ethical considerations and methods psychologist use in the science and practice. Students will gain an understanding of the strength and limitations of various psychological approaches and research methods. This course is designed to mirror an entry-level college course and students are expected to read and write extensively as well as evaluate and perform psychological experiments when applicable.
AP US Gov. & Politics I	Social Studies	0.5	AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events, and interpret data to develop evidence-based arguments.
AP US Gov. & Politics II	Social Studies	0.5	AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events, and interpret data to develop evidence-based arguments.
AP US History I	Social Studies	1.0	The AP U.S. History course is designed to provide you with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. You will learn to assess historical materials – their relevance to a given interpretive problem, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship.
AP US History II	Social Studies	1.0	The AP U.S. History course is designed to provide you with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. You will learn to assess historical materials – their relevance to a given interpretive problem, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship.

AP World History	Social Studies	1.0	In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.
Black History	Social Studies	0.5	Come explore Black History through stories, music, the arts, and culture. During this course, students will learn about the Black American experience from 1500-the present. Major topics will include life during the Civil War, reconstruction, late 19th century, early 20th century, WWI and the 1920s, the great depression, culture in the 1930s and 1940s, WWII, the freedom movement, Black Americans in the new millennium, and current events.
Economics	Social Studies	0.5	This course presents the philosophy and principles of economic concepts. It consists of a study of the nature and method of economics; opportunity cost; business organization, supply and demand; the market system and competitive enterprise; money, banking and monetary policy; resource allocation; and international economics. This course is designed to cross subject area lines when appropriate in order to give the student a broad view of concepts under investigation. This is a weighted course. Students will be expected to complete assignments outside of class time on a regular basis. Students will be expected to complete projects that must include the elements of research, exploration and evaluation. All students in this course are expected to read extensively, think critically and write lucidly.
Government	Social Studies	1.0	This course is designed to be the culminating experience in the student's required social studies program bringing together and expanding the knowledge from prior study of the following areas: citizenship, Current events, multicultural perspectives, history, geography, economics, and government. The students will be expected to demonstrate, through examination, understanding the basic provisions and principles of The Constitutions of the United States and of the State of Missouri as prescribed by state statute.
Liberty & Law	Social Studies	0.5	This course is designed to be the culminating experience in the student's required social studies program bringing together and expanding the knowledge from prior study of the following areas: citizenship, Current events, multicultural perspectives, history, geography, economics, and government. The students will be expected to demonstrate, through examination, understanding the basic provisions and principles of The Constitutions of the United States and of the State of Missouri as prescribed by state statute.
Psych. of the Holocaust	Social Studies	1.0	The unique historic events that have come to be known as the Holocaust will be used as a vehicle to analyze and explore psychological concepts such as attitude formation, personality development, discrimination, the bystander effect, learned behavior, motivation and multiple aspects of both individual and group behavior. This course will examine how diverse forms of individual and social behavior can exist in the midst of a dysfunctional social order like that of Germany prior to and during the Holocaust, as well as explore other acts of genocide.
Psychology	Social Studies	0.5	This psychology survey course is designed to help each student gain insight into human behavior. Through this course students will be introduced to the content, terminology, methodology, and application of the discipline. Students will also identify 0 Current events and issues in psychology on a regular basis.

Sociology	Social Studies	0.5	This sociology survey course is designed to provide students with a basic understanding of how societies are formed and how they function. Sociology is a study of people in group relationships and integrates all the disciplines of social movement. This course addresses values, norms, culture, socialization, social stratification and social institutions. It may also include consideration of social problems such as crime, poverty, prejudice and discrimination, collective behavior and social movements.
US History	Social Studies	1.0	This United States History course, required of all students, is a survey of U.S. history since Reconstruction. The course will examine and evaluate matters relating to the student's role as a citizen in an ever changing, multicultural world and focus on the social, political, economic, and military events which had a major impact on shaping the United States as it is today.
World Geography	Social Studies	0.5	This course is a study of people, places and environment from a physical and cultural perspective. Through a variety of classroom activities, students will gain an appreciation and understanding of the interdependent world in which they live. Students will analyze and evaluate the connection between their local and global communities. The course will emphasize the practical and responsible application of geography to life situations.
World History	Social Studies	1.0	This course is a survey of world history and cultures with an emphasis on the Modern Era from Renaissance to the present. The focus of the course is the major ideas, people and events from the eastern and western hemispheres which have shaped our world today. Major themes include but are not limited to Global Exchange, Age of Discovery, Renaissance and Reformation, the Age of Revolution, and how they have impacted the Modern Era. Students will be given the opportunity to become involved in rigorous learning and writing requiring critical thinking activities, research, making inferences, generalizing and drawing conclusions.
French I	World Languages	1.0	In French I, the student begins to understand, speak, read and write French. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of French-speaking peoples.
French II	World Languages	1.0	French II builds on the first-level course. Students increase their vocabulary, are introduced to the past tense, and improve conversational, reading, and writing skills. Students continue to study the culture of French-speaking peoples.
French III	World Languages	1.0	In French III, students continue to develop skills in speaking, listening and writing French. At this level there is increased emphasis on vocabulary development, oral proficiency, expression in past and various other tenses. Students continue to expand knowledge of the culture of language-speaking peoples.
French IV	World Languages	1.0	In French IV, students concentrate on more proficient communication in French. Students and teachers communicate more in French in order to refine the skills of speaking, auditory and reading comprehension, and composition. Students apply previously learned verb tenses and are introduced to the remaining tenses and moods in the verb system. Units of study include more authentic readings and discussion of culture and personal opinions.
German I	World Languages	1.0	In German I, students will acquire an elementary ability to listen, speak, read, and write the German language. This course emphasizes the skills needed for useful daily communication, e.g. making friends, expressing ones needs and preferences, seeking and giving directions, etc. Along with learning the language, students will also be introduced to German culture.
German II	World Languages	1.0	In German II, students will acquire an elementary ability to listen, speak, read, and write the German language. This course emphasizes the skills needed for useful daily communication, e.g. making friends, expressing ones needs and preferences, seeking and giving directions, etc. Along with learning the language, students will also be introduced to German culture.
Japanese I	World Languages	1.0	In Japanese I, the student begins to understand, speak, read and write Japanese. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of Japanese-speaking peoples

Japanese II	World Languages	1.0	Japanese II builds on the first-level course. Students increase their vocabulary, are introduced to the past tense, and improve conversational, reading, and writing skills. Students continue to study the culture of Japanese-speaking peoples.
Spanish I	World Languages	1.0	In Spanish I the student begins to understand, speak, read, and write Spanish. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of Spanish-speaking peoples.
Spanish II	World Languages	1.0	Spanish II builds on the first-level course. Students increase their vocabulary, continue to use and develop the present tense and infinitive verb constructions, and improve conversational, reading, and writing skills. Students continue to study the culture of Spanish-speaking peoples.
Spanish III	World Languages	1.0	Students in Spanish III continue to develop skills in speaking, listening, and writing Spanish. At this level there is increased emphasis on vocabulary development, oral proficiency, expression in the past tenses and various other tenses. Students continue to expand knowledge of the culture of Spanish-speaking peoples.